RTS7751R2D

SH-Graphics

Hardware manual

Renesas Technology Sales Co.,Ltd.

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[Revision record]

No.	Section No.	Date	Content	Person in Charge
1	2.3.2	2004.02.03	Incorrect value of ISA bus mode setting corrected.	

[Contents]

1 Scope

This board applies to the RTS7751R2D-1 from Renesas Technology Sales Co., Ltd. which uses the RISC SH7751R microcomputer from Renesas Technology Corp.

2 System Configuration

Figure 2-1 shows the system configuration.

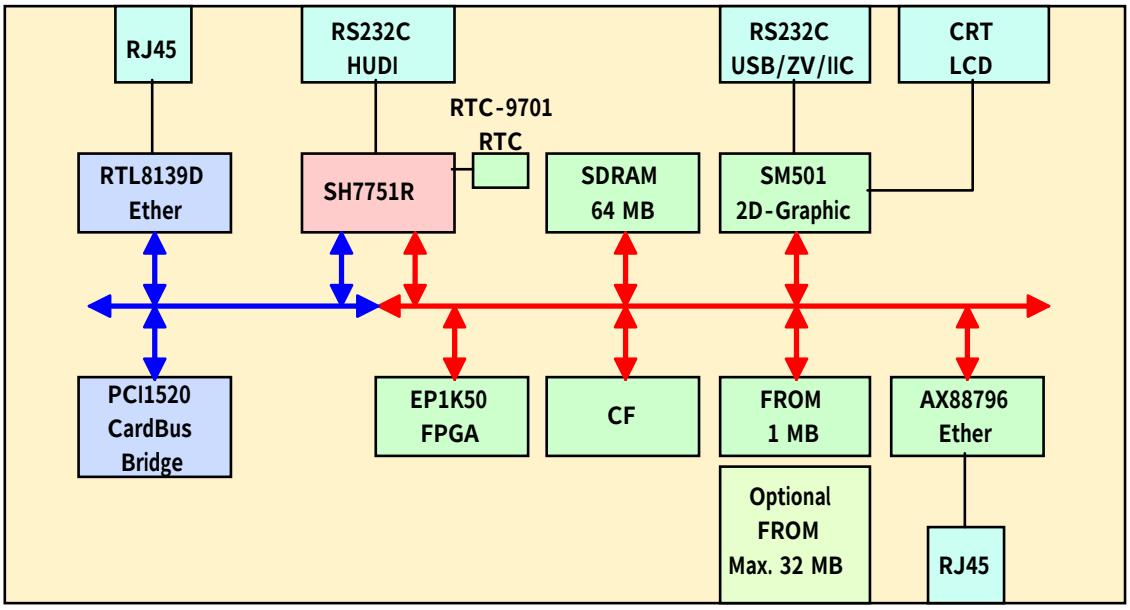


Figure 2-1: System Configuration

2.1 Parts Allocation

Figure 2-2 shows the allocation of parts.

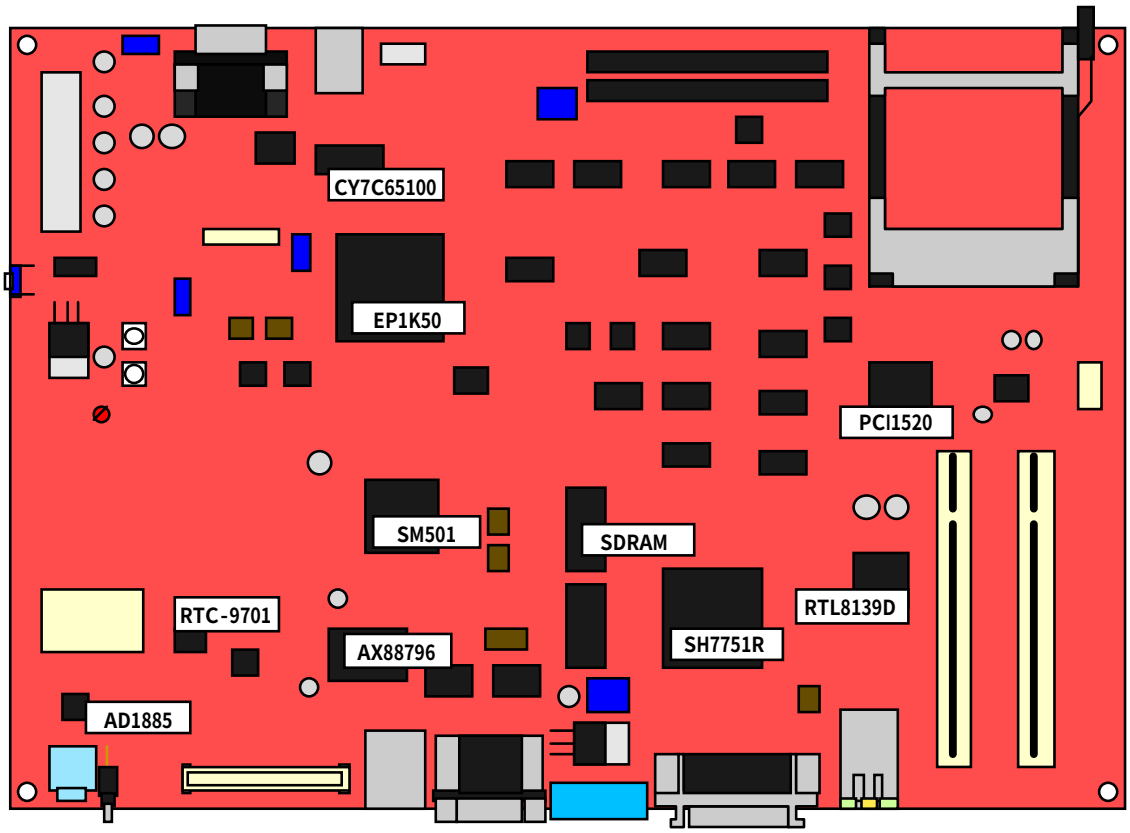
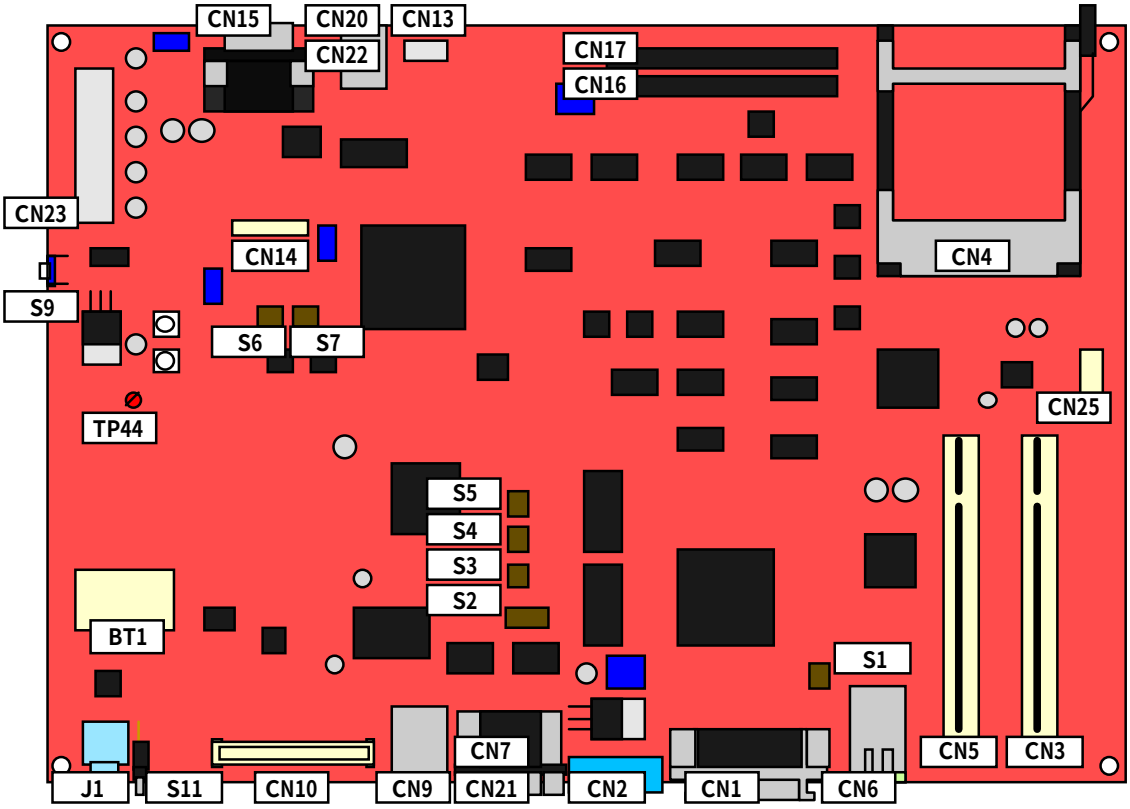
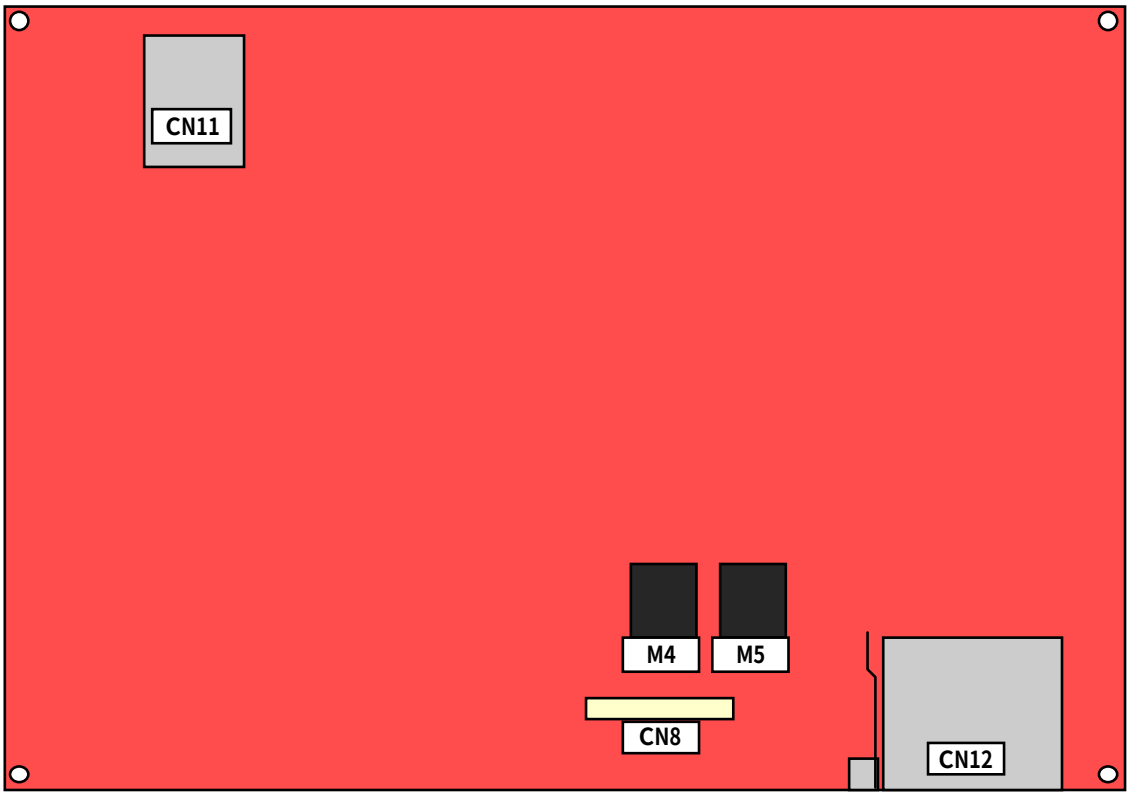


Figure 2-2: Parts Allocation

Figure 2-3 shows the allocation of connectors and switches.



Part face



Solder face

Figure 2-3: Connector and Switch Allocation

2.2 Connector Specification

Table 2-1 shows a list of connectors. The specifications are described below.

Table 2-1: List of Connectors

Ref No.	Function	Note	Ref No.	Function	Note
CN1 and CN2	Emulator connection		CN12	CF card slot	
CN3 and CN5	PCI card slot (3.3 V)	5-V edge type	CN13	LCD inverter connection	
CN4	PCMCIA card slot	Compliant with card bus	CN14	LCD connection	
CN6 and CN9	Ethernet connector		CN15	CRT connection	
CN7 and CN21	Serial connector	SH4-SCIF/SM501-UART	CN16 and CN17	Expanded board connection	SH4 CPU bus expansion
CN8	Expanded ROM connection		CN19	Character LCD connection	16 digits x 2 columns
CN10	MII/ZV/IIC connection		CN20 and CN22	USB connector	
CN11	SD card slot		CN23	Power connector	

2.2.1 Power-Supply Connection

CN23 is the power-supply connector and is compliant with the ATX standard. This board will be supplied with power from the CN23. Please use the power connection for the PC on the market. The pin assignment specifications are as follows:

Connector type: 5566-20A, Manufacturer: Molex					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	+3.3 V	Supply 3.3 V	2	+3.3 V	Supply 3.3 V
3	GND	Ground	4	+5.0 V	Supply 5.0 V
5	GND	Ground	6	+5.0 V	Supply 5.0 V
7	GND	Ground	8	NC	P_OK (not used)
9	+5.0-V SB	Standby power-supply	10	+12.0 V	Supply 12.0 V
11	+3.3 V	Supply 3.3 V	12	–12.0 V	Supply –12.0 V (not used)
13	GND	Ground	14	PS_ON	Power switch input
15	GND	Ground	16	GND	Ground
17	GND	Ground	18	–5.0 V	Supply –5.0 V (not used)
19	+5.0 V	Supply 5.0 V	20	+5.0 V	Supply 5.0 V

2.2.2 Emulator Connection Using the HUDI Interface

CN2 is a connector used for connection to the emulator. It is compatible with the HUDI cable interfaces of the Renesas-Technology E10A, Hitachi ULSI Systems MY-ICE EZII, etc. The pin assignment specifications are as follows:

Connector type: FAP14-08#2-0BS, Manufacturer: Yamaichi Electronics, Co., Ltd.					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	TCK	Clock	8	GND	Ground
2	TRSTn	Reset	9	GND	Ground
3	TDO	Data output	10	GND	Ground
4	ASEBRKn	Break signal	11	NC	Not connected
5	TMS	Mode select	12	GND	Ground
6	TDI	Data input	13	GND	Ground
7	RESETn	User reset input	14	GND	Ground

2.2.3 Emulator Connection Using the AUD Interface

CN1 is a connector used for connection to the emulator. It is compatible with the AUD cable interfaces of the Renesas-Technology E10A, Hitachi ULSI Systems MY-ICE EZII, etc. When you need a reset input from an emulator from the Kyoto Microcomputer PARTNER-JET, etc., please connect the reset cable to TPX. The pin assignment specifications are as follows:

Connector type: DX10M-36S, Manufacturer: Hirose Electric, Co., Ltd.					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	AUDCK	AUD clock	19	TMS	Mode select
2	GND	Ground	20	GND	Ground
3	AUDATA0	AUD Data 0	21	TRSTn	Reset
4	GND	Ground	22	GND	Ground
5	AUDATA1	AUD Data 1	23	TDI	Data input
6	GND	Ground	24	GND	Ground
7	AUDATA2	AUD Data 2	25	TDO	Data output
8	GND	Ground	26	GND	Ground
9	AUDATA3	AUD Data 3	27	ASEBRKn	Break signal
10	GND	Ground	28	GND	Ground
11	AUDSYNCn	AUD synchronization signal	29	NC	Not connected
12	GND	Ground	30	GND	Ground
13	NC	Not connected	31	RESETn	User reset input
14	GND	Ground	32	GND	Ground
15	NC	Not connected	33	GND	Ground
16	GND	Ground	34	GND	Ground
17	TCK	Clock	35	NC	Not connected
18	GND	Ground	36	GND	Ground

2.2.4 Serial Cable Connection

CN7 and CN21 are connectors used for connection to the serial cable. They need to be connected to a terminal with a cross cable and are used for the debugging message output.

CN7 is connected through the SCIF incorporated in the SH4. CN21 is connected through the UART incorporated in the SM501 via an RS-232C driver receiver. For the SCIF of the SH4, 1.8432 MHz is input to the SH4 as a serial clock to provide a baud rate of 115.2 Kbps.

The pin assignment specifications are as follows:

Connector type: DM1015-73, Manufacturer: Foxconn CN7: SCIF incorporated in the SH4					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	NC	Not connected	6	DSR	Data set ready
2	RD	Receive data	7	RTS	Request to send
3	TD	Receive data	8	CTS	Sending enabled
4	DTR	Data terminal ready	9	NC	Not connected
5	GND	Ground	(Pins 4 and 6 are short-circuited.)		

Connector type: DM1015-73, Manufacturer: Foxconn CN21: UART incorporated in the SM501					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	NC	Not connected	6	NC	Not connected
2	RD	Receive data	7	RTS	Request to send
3	TD	Transmit data	8	CTS	Sending enabled
4	NC	Not connected	9	NC	Not connected
5	GND	Ground			

2.2.5 USB Cable Connection

CN20 and CN22 are A-type connectors used for connection to the USB cable. They are connected to the USB Function incorporated in the SM501 via a hub controller. The USB Function is compliant with the USB1.1 standard. The pin assignment is as follows:

Connector type: XM7A-0442-A, Manufacturer: Omron					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	VBUS	+5.0–V output	2	D–	D–
3	D+	D+	4	GND	Ground

2.2.6 Ethernet Cable Connection

CN6 and CN9 are the connectors for the Ethernet cable. A pulse transformer built-in type is used.

CN6 is connected to the communication line of the RTL8139DL assigned to the PCI bus of the SH4. CN9 is connected to the communication line of the AX88796L assigned to the CPU bus of the SH4. The pin assignment specifications are listed below. For connection of a PC, please use the cross cable on the market.

CN6 connector type: NU1S042C-434, Manufacturer: Bothhand CN9 connector type: LU1S516, Manufacturer: Bothhand					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	TxOUT+	Transmit data+	5	NC	Not connected
2	TxOUT-	Transmit data-	6	RxIN-	Receive data-
3	RxIN+	Receive data+	7	GND	Ground
4	NC	Not connected	8	NC	Not connected

2.2.7 CRT Cable Connection

CN15 is the connector used for connection to the CRT. It is connected to the analog display control of the SM501. The pin assignment specifications are as follows:

Connector type: HPDEB-15S, Manufacturer: Cinch					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	R		9	NC	
2	G		10	GND	
3	B		11	NC	
4	NC		12	NC	
5	GND		13	CRTHS	
6	GND		14	CRTVS	
7	GND		15	NC	
8	GND				

2.2.8 CCD Inverter Cable Connection

CN13 is connected to the inverter for the LCD back light control. Switching the inverter on and off is controlled by the SX on this board.

The pin assignment specifications are as follows:

Connector type: HPDEB-15S, Manufacturer: Cinch					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	VCC	Supply +12.0 V	4	VR0	Luminance 0
2	GND	Ground	5	VR1	Luminance 1
3	VRMT	Inverter On/Off			

2.2.9 LCD Cable Connection

CN14 is the connector used for connection to the LCD. It is connected to the digital display controller of the SM501. The pin assignment specifications are as follows:

Connector type: DF9-31P-1V, Manufacturer: Hirose Electric, Co., Ltd.					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	GND	Ground	17	G4	Green data 4
2	CK	Clock	18	G5	Green data 5
3	HSYNC	Horizontal synchronization signal	19	GND	Ground
4	VSYNC	Vertical synchronization signal	20	B0	Blue data 0
5	GND	Ground	21	B1	Blue data 1
6	R0	Red data 0	22	B2	Blue data 2
7	R1	Red data 1	23	B3	Blue data 3
8	R2	Red data 2	24	B4	Blue data 4
9	R3	Red data 3	25	B5	Blue data 5
10	R4	Red data 4	26	GND	Ground
11	R5	Red data 5	27	ENA8	Horizontal display position selection
12	GND	Ground	28	VCC	Supply +5.0 V
13	G0	Green data 0	29	VCC	Supply +5.0 V
14	G1	Green data 1	30	R/L	R/L switch (not used)
15	G2	Green data 2	31	U/D	U/D switch (not used)
16	G3	Green data 3			

2.2.10 Connector for the Character LCD

CN19 enables connection with the 16-digit x 2-line character LCD. The display timing is controlled by the FPGA. Please use this for debugging, etc. after checking the interface. The assumed LCD module is SC1602 manufactured by SEIKO Denshi. The pin assignment specifications are as follows:

Connector type: FAP14-08#2-0BS, Manufacturer: Yamaichi Electronics, Co., Ltd.					
Pin No.	Signal	Function	Pin No.	Signal	Function
1	D7	Data 7	8	D0	Data 0
2	D6	Data 6	9	E	Enable
3	D5	Data 5	10	R/W	Read/write
4	D4	Data 4	11	RS	Register selection
5	D3	Data 3	12	VLC	Luminance adjustment
6	D2	Data 2	13	GND	Ground
7	D1	Data 1	14	+5.0 V	Supply 5.0 V

2.2.11 MII ZV IIC Interface Connection

CN10 expands the ZV port incorporated in the SM501, the IIC pin, and the MII pin of the AX88796L. When using each function, please create a board to connect to this connector. The supported connector is the 534751209 manufactured by Molex. The pin assignment specifications are as follows:

Connector type: 0527601209, Manufacturer: Molex							
Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
1	+5.0 V	Supply 5.0 V		2	+5.0V	Supply 5.0 V	
3	MDIO	Serial data	MII	4	GND	Ground	
5	MDC	Serial lock	MII	6	GND	Ground	
7	RXD3	Received data	MII	8	GND	Ground	
9	RXD2	Received data	MII	10	GND	Ground	
11	RXD1	Received data	MII	12	GND	Ground	
13	RXD0	Received data	MII	14	GND	Ground	
15	RXDV	Receive data enabled	MII	16	GND	Ground	
17	RX_CLK	Receive clock	MII	18	GND	Ground	
19	RX_ER	Received data error	MII	20	GND	Ground	
21	TX_ER	Transmit data error	MII	22	GND	Ground	
23	TX_CLK	Transmit data clock	MII	24	GND	Ground	
25	TXEN	Transmit data enable	MII	26	GND	Ground	
27	TXD0	Transmit data	MII	28	GND	Ground	
29	TXD1	Transmit data	MII	30	GND	Ground	
31	TXD2	Transmit data	MII	32	GND	Ground	
33	TXD3	Transmit data	MII	34	GND	Ground	
35	COL	Collision	MII	36	GND	Ground	
37	CRS	Carrier sense	MII	38	GND	Ground	
39	+5.0V	Supply 5.0 V		40	+5.0 V	Supply 5.0 V	
41	GND	Ground		42	GND	Ground	
43	GND	Ground		44	GND	Ground	
45	IPD0 (GPIO16)	Data input	ZV	46	GND	Ground	
47	IPD1 (GPIO17)	Data input	ZV	48	GND	Ground	
49	IPD2 (GPIO18)	Data input	ZV	50	GND	Ground	
51	IPD3 (GPIO19)	Data input	ZV	52	GND	Ground	
53	IPD4 (GPIO20)	Data input	ZV	54	GND	Ground	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
55	IPD5 (GPIO21)	Data input	ZV	56	GND	Ground	
57	IPD6 (GPIO22)	Data input	ZV	58	GND	Ground	
59	IPD7 (GPIO23)	Data input	ZV	60	GND	Ground	
61	HPD0 (GPIO56)	Data input	ZV	62	GND	Ground	
63	HPD1 (GPIO57)	Data input	ZV	64	GND	Ground	
65	HPD2 (GPIO58)	Data input	ZV	66	GND	Ground	
67	HPD3 (GPIO59)	Data input	ZV	68	GND	Ground	
69	HPD4 (GPIO60)	Data input	ZV	70	GND	Ground	
71	HPD5 (GPIO61)	Data input	ZV	72	GND	Ground	
73	HPD6 (GPIO62)	Data input	ZV	74	GND	Ground	
75	HPD7 (GPIO63)	Data input	ZV	76	GND	Ground	
77	IGPV (VPSYNC)	Vertical synchronization signal	ZV	78	GND	Ground	
79	IGPH (VPHREF)	Horizontal synchronization signal	ZV	80	GND	Ground	
81	IDQ (VPCLK)	Synchronization clock	ZV	82	GND	Ground	
83	NC	Not connected		84	NC	Not connected	
85	NC	Not connected		86	+5.0 V	Supply 5.0 V	
87	NC	Not connected		88	+12.0 V	Supply 12.0 V	
89	GND	Ground		90	GND	Ground	
91	GND	Ground		92	GND	Ground	
93	NC	Not connected		94	NC	Not connected	
95	IICSCL	IIC clock	IIC	96	GND	Ground	
97	IICSDA	IIC data	IIC	98	GND	Ground	
99	NC	Not connected		100	NC	Not connected	
101	GND	Ground		102	GND	Ground	
103	GND	Ground		104	GND	Ground	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
105	NC	Not connected		106	NC	Not connected	
107	NC	Not connected		108	NC	Not connected	
109	NC	Not connected		110	NC	Not connected	
111	NC	Not connected		112	NC	Not connected	
113	NC	Not connected		114	NC	Not connected	
115	NC	Not connected		116	NC	Not connected	
117	NC	Not connected		118	NC	Not connected	
119	NC	Not connected		120	NC	Not connected	

2.2.12 Memory Card Connection

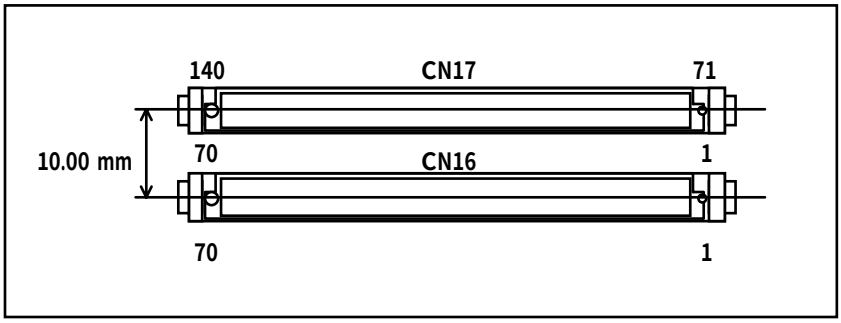
CN8 is a connector to expand memory. When designing a board to connect to this connector, the supporting connector is the 0534751009 manufactured by Molex. The pin assignment specifications are as follows:

Connector type: 0527601009, Manufacturer: Molex							
Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
1	+5.0 V	Supply 5.0 V		2	+3.3 V	Supply 3.3 V	
3	GND	Ground		4	GND	Ground	
5	D0	Data		6	D16	Data	
7	D1	Data		8	D17	Data	
9	D2	Data		10	D18	Data	
11	D3	Data		12	D19	Data	
13	D4	Data		14	D20	Data	
15	D5	Data		16	D21	Data	
17	D6	Data		18	D22	Data	
19	D7	Data		20	D23	Data	
21	D8	Data		22	D24	Data	
23	D9	Data		24	D25	Data	
25	+5.0 V	Supply 5.0 V		26	+3.3 V	Supply 3.3 V	
27	GND	Ground		28	GND	Ground	
29	D10	Data		30	D26	Data	
31	D11	Data		32	D27	Data	
33	D12	Data		34	D28	Data	
35	D13	Data		36	D29	Data	
37	D14	Data		38	D30	Data	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
39	D15	Data		40	D31	Data	
41	A0	Address		42	A13	Address	
43	A1	Address		44	A14	Address	
45	A2	Address		46	A15	Address	
47	A3	Address		48	A16	Address	
49	+5.0 V	Supply 5.0 V		50	+3.3 V	Supply 3.3 V	
51	GND	Ground		52	GND	Ground	
53	A4	Address		54	A17	Address	
55	A5	Address		56	A18	Address	
57	A6	Address		58	A19	Address	
59	A7	Address		60	A20	Address	
61	A8	Address		62	A21	Address	
63	A9	Address		64	A22	Address	
65	A10	Address		66	A23	Address	
67	A11	Address		68	A24	Address	
69	A12	Address		70	A25	Address	
71	+5.0 V	Supply 5.0 V		72	+3.3 V	Supply 3.3 V	
73	GND	Ground		74	GND	Ground	
75	WE0n	Write enable		76	CS0n	Chip select	
77	WE1n	Write enable		78	NC	Not connected	
79	WE2n	Write enable		80	CS2n	Chip select	
81	WE3n	Write enable		82	CS3n	Chip select	
83	GND	Ground		84	GND	Ground	
85	RDn	Read		86	CS4n	Chip select	
87	RD/WRn	Read/write		88	CS5n	Chip select	
89	FLRDY	Ready		90	BSn	Bus start	
91	RESETn	Reset		92	RDYn	Device ready	
93	GND	Ground		94	CKIO	Clock	
95	+5.0 V	Supply 5.0 V		96	+5.0 V	Supply 5.0 V	
97	+3.3 V	Supply 3.3 V		98	+3.3 V	Supply 3.3 V	
99	GND	Ground		100	GND	Ground	

2.2.13 Connectors for External Expansion

CN16 and CN17 are connectors for external SuperH bus expansion. Area 6 and a part of area 2 can be used. When designing a board for expansion, the supporting connector is the KX15-140K8D1 manufactured by Japan Aviation Electronics Industry, Limited. The space needed between connectors is 10.00 mm from the center line of a connector to the center of any adjacent connector. Please do not allocate any parts on the solder face.



The pin assignment specifications are as follows:

CN16 Connector type: KX14-140K8D1, Manufacturer: Japan Aviation Electronics Industry, Limited.							
Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
1	+3.3 V	3.3 V power		2	+5.0 V	5.0 V power	
3	GND	Ground		4	CKIO	System clock	
5	GND	Ground		6	D0	Data	
7	GND	Ground		8	D2	Data	
9	GND	Ground		10	D4	Data	
11	GND	Ground		12	D6	Data	
13	GND	Ground		14	D8	Data	
15	GND	Ground		16	D10	Data	
17	GND	Ground		18	D12	Data	
19	GND	Ground		20	D14	Data	
21	GND	Ground		22	D16	Data	
23	GND	Ground		24	D18	Data	
25	GND	Ground		26	D20	Data	
27	GND	Ground		28	D22	Data	
29	GND	Ground		30	D24	Data	
31	GND	Ground		32	D26	Data	
33	GND	Ground		34	D28	Data	
35	GND	Ground		36	D30	Data	
37	GND	Ground		38	GND	Ground	
39	+3.3 V	3.3 V power supply		40	+3.3 V	3.3 V power supply	
41	+5.0 V	5.0 V power supply		42	+5.0 V	5.0 V power supply	
43	NC	Not connected		44	GND	Ground	
45	NC	Not connected		46	GND	Ground	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
47	NC	Not connected		48	GND	Ground	
49	NC	Not connected		5.0	GND	Ground	
51	NC	Not connected		52	GND	Ground	
53	NC	Not connected		54	GND	Ground	
55	NC	Not connected		56	GND	Ground	
57	OUTPORT	Output port		58	GND	Ground	
59	RESET_IN	Reset input	From the expanded side	60	GND	Ground	
61	GND	Ground		62	+12.0 V	+12.0 V power supply	
63	−12.0 V	+12.0 V power supply		64	GND	Ground	
65	GND	Ground		66	−12.0 V	−12.0 V power supply	
67	−12.0 V	−12.0 V power supply		68	GND	Ground	
69	+3.3 V	3.3 V power supply		70	+3.3 V	3.3 V power supply	
71	+3.3 V	3.3 V power supply		72	+3.3 V	3.3 V power supply	
73	GND	Ground		74	GND	Ground	
75	GND	Ground		76	GND	Ground	
77	D1	Data		78	GND	Ground	
79	D3	Data		80	GND	Ground	
81	D5	Data		82	GND	Ground	
83	D7	Data		84	GND	Ground	
85	D9	Data		86	GND	Ground	
87	D11	Data		88	GND	Ground	
89	D13	Data		90	GND	Ground	
91	D15	Data		92	GND	Ground	
93	D17	Data		94	GND	Ground	
95	D19	Data		96	GND	Ground	
97	D21	Data		98	GND	Ground	
99	D23	Data		100	GND	Ground	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
101	D25	Data		102	GND	Ground	
103	D27	Data		104	GND	Ground	
105	D29	Data		106	GND	Ground	
107	D31	Data		108	GND	Ground	
109	+3.3 V	3.3 V power supply		110	+3.3 V	3.3 V power supply	
111	+5.0 V	5.0 V power supply		112	+5.0 V	5.0 V power supply	
113	GND	Ground		114	NC	Not connected	
115	GND	Ground		116	NC	Not connected	
117	GND	Ground		118	NC	Not connected	
119	GND	Ground		120	NC	Not connected	
121	GND	Ground		122	NC	Not connected	
123	GND	Ground		124	NC	Not connected	
125	GND	Ground		126	NC	Not connected	
127	GND	Ground		128	NC	Not connected	
129	GND	Ground		130	RESET_OUT	Reset output	To the expanded side
131	GND	Ground		132	+12.0 V	+12.0 V power supply	
133	+12.0 V	+12.0 V power supply		134	NC	Not connected	
135	GND	Ground		136	−12.0 V	−12.0 V power supply	
137	+12.0 V	−12.0 V power supply		138	GND	Ground	
139	+3.3 V	3.3 V power supply		140	+3.3 V	3.3 V power supply	

CN17 Connector type: KX14-140K8D1, Manufacturer: Japan Aviation Electronics Industry, Limited.							
Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
1	+3.3 V	3.3 V power		2	+5.0 V	5.0 V power	
3	GND	Ground		4	A0	Address	
5	GND	Ground		6	A2	Address	
7	GND	Ground		8	A4	Address	
9	GND	Ground		10	A6	Address	
11	GND	Ground		12	A8	Address	
13	GND	Ground		14	A10	Address	
15	GND	Ground		16	A12	Address	
17	GND	Ground		18	A14	Address	
19	GND	Ground		20	A16	Address	
21	GND	Ground		22	A18	Address	
23	GND	Ground		24	A20	Address	
25	GND	Ground		26	A22	Address	
27	GND	Ground		28	A24	Address	
29	GND	Ground		30	GND	Ground	
31	+3.3 V	3.3 V power supply		32	+5.0 V	5.0 V power supply	
33	GND	Ground		34	BSn	Bus start	
35	GND	Ground		36	RD/WRn	Read/write	
37	GND	Ground		38	WE1n	Write enable	
39	GND	Ground		40	WE3n	Write enable	
41	GND	Ground		42	DREQ0N	DMA request	
43	GND	Ground		44	DRACK0	DMA request acceptance	
45	GND	Ground		46	DACK0	DMA transfer	
47	GND	Ground		48	INT0N	Interrupt	
49	GND	Ground		5.0	INT2N	Interrupt	
51	GND	Ground		52	RDYN	Ready	
53	GND	Ground		54	CS4n	Chip select	
55	GND	Ground		56	GND	Ground	
57	NC	Not connected		58	GND	Ground	
59	NC	Not connected		60	GND	Ground	
61	+3.3 V	3.3 V power		62	+5.0 V	5.0 V power	
63	CE2An	Chip select		64	GND	Ground	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
65	IOIS16n	Bus width select		66	GND	Ground	
67	GND	Ground		68	GND	Ground	
69	+3.3V	3.3 V power supply		70	+5.0 V	5.0 V power supply	
71	+3.3V	3.3 V power supply		72	+5.0 V	5.0 V power supply	
73	GND	Ground		74	GND	Ground	
75	A1	Address		76	GND	Ground	
77	A3	Address		78	GND	Ground	
79	A5	Address		80	GND	Ground	
81	A7	Address		82	GND	Ground	
83	A9	Address		84	GND	Ground	
85	A11	Address		86	GND	Ground	
87	A13	Address		88	GND	Ground	
89	A15	Address		90	GND	Ground	
91	A17	Address		92	GND	Ground	
93	A19	Address		94	GND	Ground	
95	A21	Address		96	GND	Ground	
97	A23	Address		98	GND	Ground	
99	A25	Address		100	GND	Ground	
101	+3.3V	3.3 V power supply		102	+5.0 V	5.0 V power supply	
103	GND	Ground		104	GND	Ground	
105	RDn	Read enable		106	GND	Ground	
107	WE0n	Write enable		108	GND	Ground	
109	WE1n	Write enable		110	GND	Ground	
111	GND	Ground		112	GND	Ground	
113	GND	Ground		114	NC	Not connected	
115	GND	Ground		116	NC	Not connected	
117	GND	Ground		118	NC	Not connected	
119	GND	Ground		120	NC	Not connected	
121	GND	Ground		122	NC	Not connected	
123	GND	Ground		124	NC	Not connected	
125	GND	Ground		126	NC	Not connected	
127	GND	Ground		128	NC	Not connected	

Pin No.	Signal	Function	Note	Pin No.	Signal	Function	Note
129	GND	Ground		130	RESET_OUT	Reset output	To the expand-ed side
131	GND	Ground		132	+12.0 V	+12.0 V power supply	
133	+12.0 V	+12.0 V power supply		134	GND	Ground	
135	GND	Ground		136	-12.0V	-12.0 V power	
137	-12.0 V	-12.0 V power supply		138	GND	Ground	
139	+3.3 V	3.3 V power supply		140	+3.3V	3.3 V power supply	

2.3 Switch Specifications

Table 2-2 shows the list of switches. The specifications are described below

Table 2-2: List of Switches

Ref No.	Function	Note	Ref No.	Function	Note
S1	CPU mode setting		S8	Power-on reset	
S2	AX88796 mode setting		S9	Power On/Off	
S3, S4, S5	SM5.01 mode setting		S10	CPU manual reset	
S6,S7	DIP SW for debugging		S11	LCD inverter On/Off	

2.3.1 Switch for the CPU Mode Setting

S1 is the switch for the mode setting of the SH7751R. The allocation of each switch is listed below.

At shipment, MD5 is set to high: Little endian. Also, MD3, MD2, and MD1 are set to high, low, high, respectively: Clock mode 5.

Switch	Connected Terminal	On	Off
S1-1	M5	High	Low
S1-2	M2	High	Low
S1-3	M1	High	Low
S1-4	M0	High	Low

2.3.2 Switch for the AX88796 Mode Setting

S2 is the switch for the operating mode setting of the AX88796. The allocation of each switch is listed below.

The CPU type is the ISA bus mode (CPU0 = low and CPU1 = low).

Switch	Connected Terminal	On	Off
S2-1	CPU1	High	Low
S2-2	CPU0	High	Low
S2-3	IO_BASE2	High	Low
S2-4	IO_BASE1	High	Low
S2-5	IO_BASE0	High	Low
S2-6	Not connected		
S2-7	Not connected		
S2-8	Not connected		

2.3.3 Switches for SM5.01 Mode Setting

S3, S4, and S5 are switches for the operating mode setting of the SM5.01. The allocation of each switch is listed below.

Switch	Connected Terminal	On	Off
S3-1	MCLSIZE6	High	Low
S3-2	MCLSIZE5	High	Low
S3-3	ENDIAN	High	Low
S3-4	CLK_SRCE	High	Low

Switch	Connected Terminal	On	Off
S4-1	MSIZE2	High	Low
S4-2	MSIZE1	High	Low
S4-3	EXTMEM2	High	Low
S4-4	CLKDIVD	High	Low

Switch	Connected terminal	On	Off
S5-1	CPUTYPE2	High	Low
S5-2	CPUTYPE1	High	Low
S5-3	CPUTYPE0	High	Low
S5-4	MSIZE3	High	Low

2.3.4 DIP Switches for Debugging

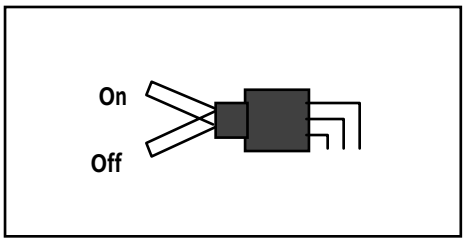
S6 and S7 are switches for debugging. They are dedicated registers connected to the FPGA and can be referenced. Please refer to the FPGA section for the specifications. The allocation of each switch is listed below.

Switch	Connected Terminal	On	Off
S6-1	FPGA	High	Low
S6-2	FPGA	High	Low
S6-3	FPGA	High	Low
S6-4	FPGA	High	Low

Switch	Connected Terminal	On	Off
S7-1	FPGA	High	Low
S7-2	FPGA	High	Low
S7-3	FPGA	High	Low
S7-4	FPGA	High	Low

2.3.5 LCD Inverter On/Off Control Switch

S11 is the inverter control switch for the LCD back light.



Switch	On	Off
S11	VCC5V	Open

2.4 Jumper Pin Specification

Table 2-3 shows the jumper pin specifications.

Table 2-3: Jumper Pin Specifications

Ref No.	Function	Specification	
JP1	Supply power to LCD	1-2 closed: 3.3 V	2-3 closed: 5.0 V
JP2	Select power of CY7C65100 (USB hub)	1-2 closed: self powered	2-3 closed: bus powered
JP3	Select monitor mode of EXT data bus signals	1-2 closed: monitor	Open: normal
JP6	Select IO power supply to the PCI connector	1-2 closed: 5.0 V	2-3 closed: 3.3 V
JP7	Select IO power supply to the PCI connector	1-2 closed: 5.0 V	2-3 closed: 3.3 V
JP8	Select the host_IF operation mode of SM5.01	1-2 closed: normal	2-3 closed: stop

2.5 LED Specifications

Each LED function is shown below.

2.5.1 LED for the Ethernet hub

LED	Function
LED1	Activity
LED2	Speed
LED3	Link

2.5.2 LED for the CF Card

LED	Function
LED4	Supply power to CF card
LED5	CF_DASP mode
LED6	Insert CF card

2.5.3 LED for USB hub

LED	Function
LED7	Supply power to USB hub No.1
LED8	Supply power to USB hub No.2

2.5.4 LED for Power Supply

LED	Function
LED17	Supply power to the board (+5 V)

2.5.5 LEDs for Debugging

LEDs 9-16 are for debugging. They are controllable through the general-purpose output ports of the FPGA.

Address: 0Eh supporting bits: Bits 0-7

LED	Bit	0	1
LED9	0	Off	On
LED10	1	Off	On
LED11	2	Off	On
LED12	3	Off	On
LED13	4	Off	On
LED14	5	Off	On
LED15	6	Off	On
LED16	7	Off	On

3 Reset Signal

The reset pins on the board are described in the following. Figure 3-1 shows the reset signal connections.

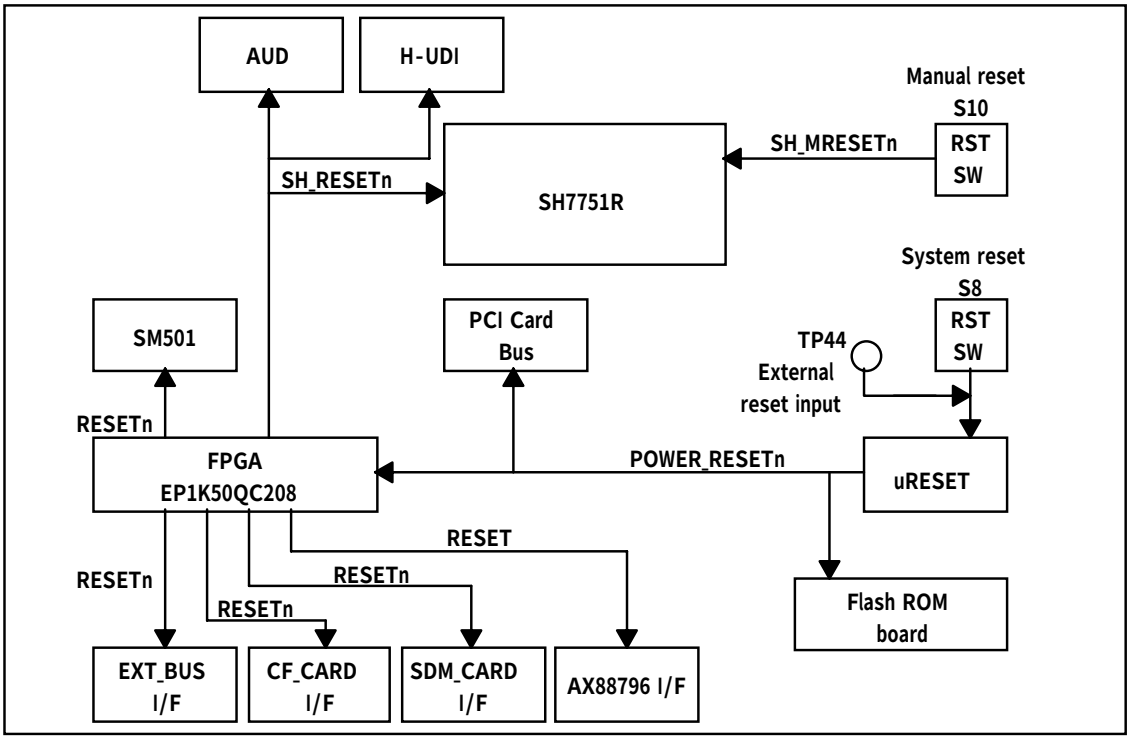


Figure 3-1: Connections to Reset Pins

3.1 Power-On Reset

Power-on reset inputs a reset signal on the device connected to the SuperH bus. The reference voltage is 3.3 V and is generated from the regulator. If the voltage falls below 2.93 V, a reset pulse will be generated.

The FPGA configuration starts on this board when the power is turned on. The reset pulse, which is input to the SH4, will be input after the configuration of the FPGA. Figure 3-2 shows the power-on reset sequence.

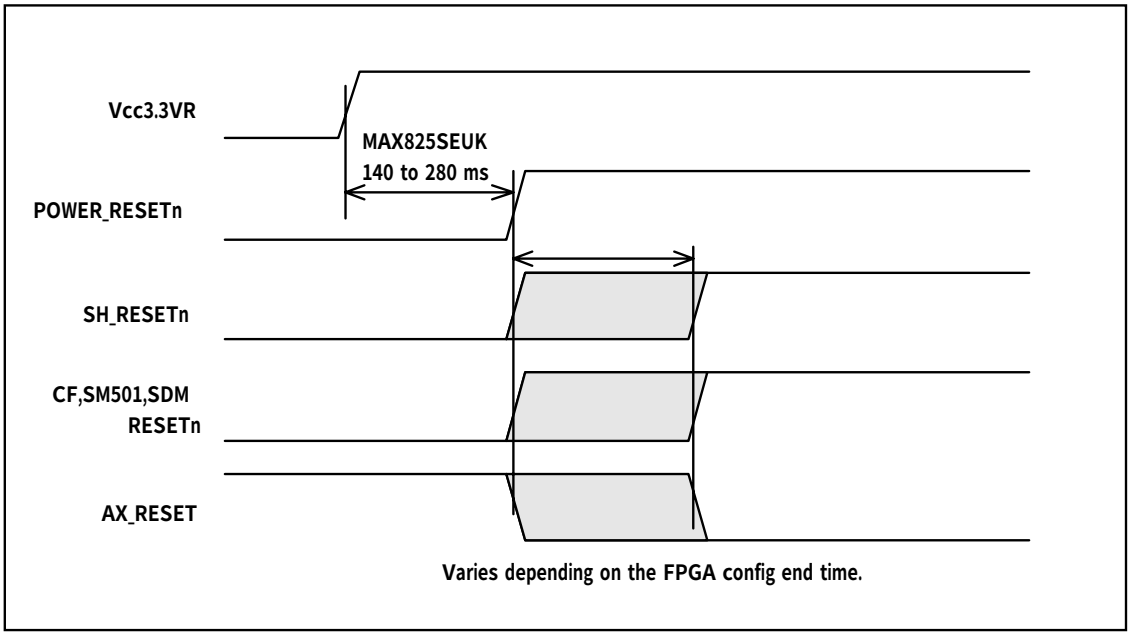


Figure 3-2: Power-On Reset Sequence

3.2 System Reset

The system is reset by pressing the reset switch (S8). The reset pulse will occur for each device with the same timing as the system reset. Figure 3-3 shows the system reset sequence.

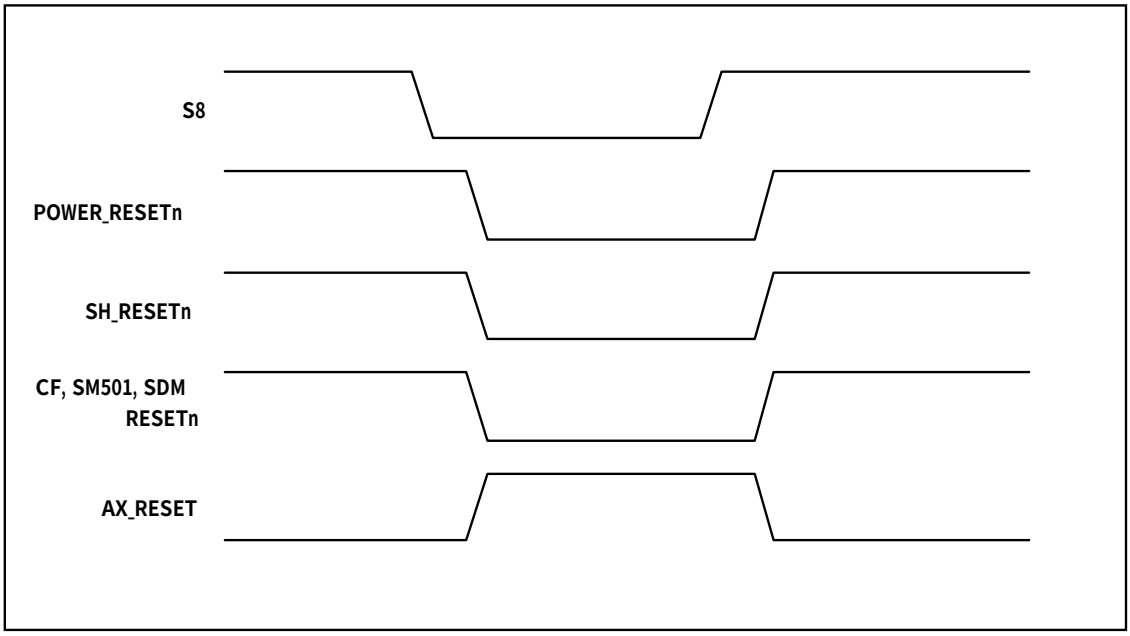


Figure 3-3: System Reset Sequence

3.3 Manual Reset

A manual reset can be input to the SuperH by pressing the reset switch (S10). It will not be input to any other device.

Figure 3-4 shows the manual reset sequence.

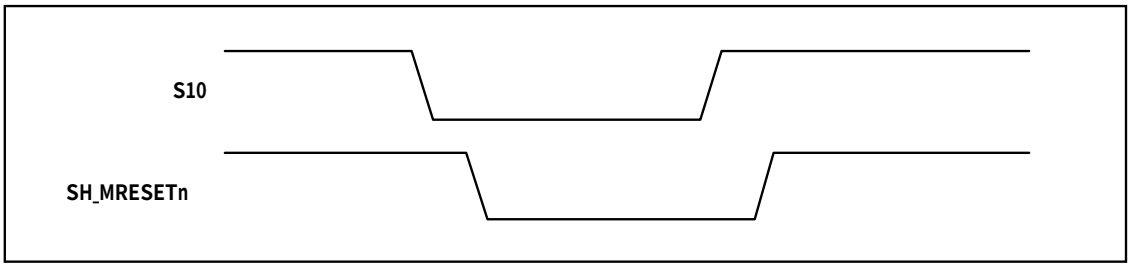


Figure 3-4: Manual Reset Sequence

4 Memory Map

Table 4-1 shows the memory map of this board.

Table 4-1: Memory Map

Area	Space Name	Bus width (bits)	Address	Mounted Device	Note
0	FROM area	16	0000 0000 to 000F FFFF	MBM29F040	Socket mounted
			0010 0000 to 03FF FFFF	MBM29F040 shadow	
			0000 0000 to 003F FFFF		Do not mount BM29F040 when using CN8 because of the exclusive connection with the above memory.
1	FPGA area	16	0400 0000 to 0400 002E	EP1K5.0EQC208	
			0400 0030 to 047F FFFF	FPGA shadow	
	Character LCD area		0480 0000 to 0480 0003	Character LCD	
			0480 0004 to 04BF FFFF	Character LCD shadow	
	SD card area		04C0 0000 to 04C0 002F	TE4300H	
			04C0 0030 to 07FF FFFF	TE4300H shadow	
2	External expansion area	16	0800 0000 to 09FF FFFF	External expansion bus	
	LAN area		0A00 0000 to 0A00 1FFF	AX88796L	
			0A00 2000 to 0BFF FFFF	AX88796L shadow	
3	SDRAM area	32	0C00 0000 to 0FFF FFFF	EDS2516ACTA	

Area	Space Name	Bus width (bits)	Address	Mounted Device	Note
4	VoyagerGX area	32	1000 0000 to 13FF FFFF	SM5.01	
5	CF area	16	1400 0000 to 1400 000F	CompactFlash	
			1400 0010 to 17FF FFFF	CF shadow	
6	External expansion area	8/16/32	1800 0000 to 1BFF FFFF	External expansion bus	

5 Area Overview

5.1 SH Bus Area

The SH bus area is described below. For the settings of the SH bus, refer to the SH7751R sample settings.

5.1.1 Area 0

Area 0 is an FROM area, which is allocated to the MBM29F040 and the expansion connector.

When the FROM of the expansion connector is used, dismount the MBM29F040.

The bus width is 16 bits.

5.1.2 Area 1

Area 1 is the area for the FPGA, character LCD, and SD card.

The FPGA has eight registers for the SH4 interrupt controller, CF card interface control, and PIO control. For the FPGA specifications, refer to the description of the FPGA usage. The area for the FPGA, character LCD, or the SD card is selected by decoding SH_A24 and SH_A23.

The bus width is 16 bits.

5.1.3 Area 2

Area 2 is for the Ethernet (AX88796L) and expansion bus.

The area for the Ethernet or the expansion bus is selected by decoding SH_A25.

The bus width is 16 bits.

5.1.4 Area 3

Area 3 is for the SDRAM. 64 Mbytes are used. The bus width is 32 bits.

5.1.5 Area 4

Area 4 is for the SM510 (Voyager). 64 Mbytes are used. The bus width is 32 bits.

5.1.6 Area 5

Area 5 is for the CompactFlash.

The bus width is 16 bits.

5.1.7 Area 6

Area 6 is for the expansion bus (Using this area in the PCMCIA mode is prohibited.)

The bus width can be selected from 8/16/32 bits.

5.2 PCI Area

The following devices are connected to the PCI bus of the SH. Two PCI slots are incorporated.
The PCI slot is a 5.0-V edge type. VIO is the 3.3-V specification.

For details on how to control the PCI bus, refer to the SH7751 Series Hardware Manual.

Each device number (DEVNO) is shown below.

DEVNO	Device	Manufacturer	Function	Remarks
H'0	Expansion slot	—	PCI card	
H'1	Expansion slot	—	PCI card	
H'2	PCI1520GHK	Texas Instruments Corp.	PCI-Cardbus bridge	
H'3	RTL8139DL	Realtek Semiconductor Corp.	Ethernet	

6 FPGA Logic Function Specifications

6.1 FPGA Pin Assignment and Functions

For the FPGA, the EP1K5.0QC208 manufactured by Altera is used. A block diagram is shown in figure 6-1.

Table 6-1 is a list of the pin assignments. Pins dedicated to JTAG and power supply pins are omitted.

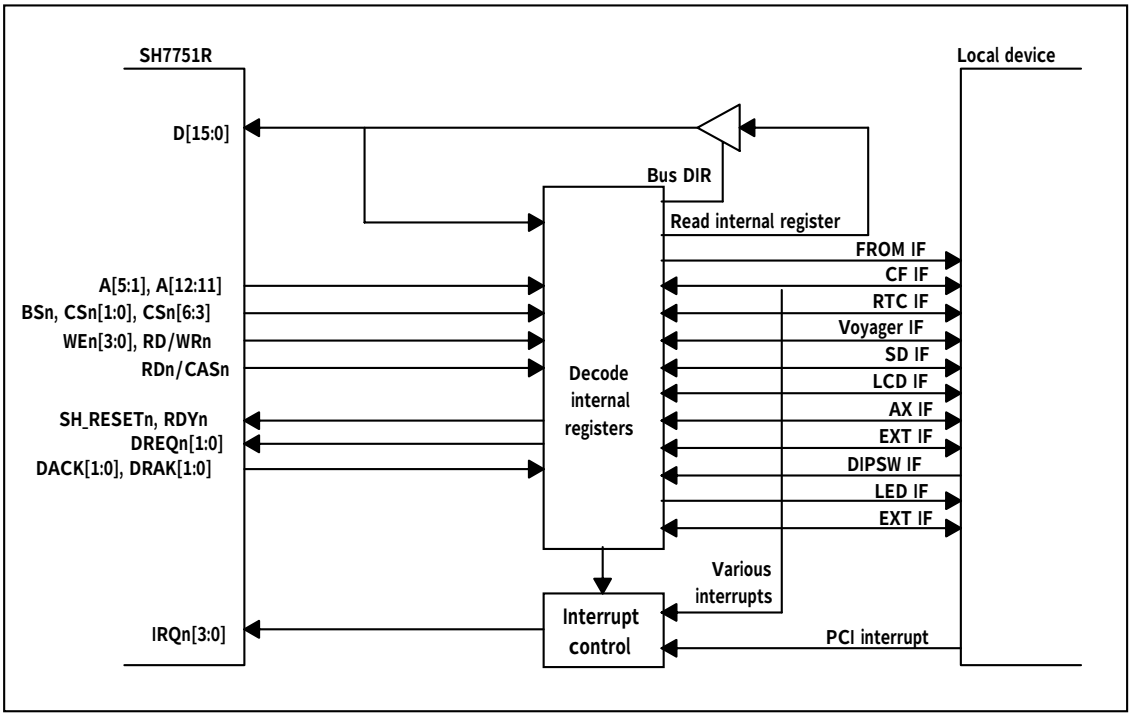


Figure 6-1 FPGA Block Diagram

Table 6-1: FPGA Pin Assignment

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
7	SH_CS0n	Input	Chip select 0	53	SH_LD15	I/O	Data bus
8	SH_CS1n	Input	Chip select 1	54	SH_LD14	I/O	Data bus
9	SH_CS3n	Input	Chip select 3	55	SH_LD13	I/O	Data bus
10	SH_CS2n	Input	Chip select 2	56	SH_LD12	I/O	Data bus
11	SH_CS5n	Input	Chip select 5	57	SH_LD11	I/O	Data bus
12	SH_CS6n	Input	Chip select 6	58	SH_LD10	I/O	Data bus
13	VOYAGER_BSn	Output	Voyager bus state	60	SH_LD9	I/O	Data bus
14	SH_RD/WRn	Input	Read/write	61	SH_LD8	I/O	Data bus
15	SH_RDn/CASn	Input	Read	62	SH_LD7	I/O	Data bus
16	SH_WE0n	Input	Write enable	63	SH_LD6	I/O	Data bus
17	SH_WE1n	Input	Write enable	64	SH_LD5	I/O	Data bus
18	SH_WE2n	Input	Write enable	65	SH_LD4	I/O	Data bus
19	SH_WE3n	Input	Write enable	67	SH_LD3	I/O	Data bus
24	SH_RDYn	Output	SH wait request	68	SH_LD2	I/O	Data bus
25	TP_DCLK	Output	Touch-panel clock	69	SH_LD1	I/O	Data bus
26	SH_LA25	Input	Address bus	70	SH_LD0	I/O	Data bus
27	SH_LA24	Input	Address bus	71	SH_IRQ0n	Output	Interrupt 0
28	SH_LA23	Input	Address bus	73	SH_IRQ1n	Output	Interrupt 1
29	VOYAGER_CSn	Input	Voyager chip selection	74	SH_IRQ2n	Output	Interrupt 2
30	SH_BREQn	Input	Bus request	75	SH_IRQ3n	Output	Interrupt 3
31	SH_BACKn	Input	Bus request acknowledge	77	Reserved	I/O	Not used
36	SH_CS4n	Output	Chip select 4	78	RESETn	Input	Hardware reset
37	SH_BSn	Input	Bus state	79	CKIO	Input	SH clock
38	SH_LA12	Input	Address bus	80	Reserved	I/O	Not used
39	SH_LA11	Input	Address bus	81	Reserved	I/O	Not used
40	SH_LA5	Input	Address bus	83	SH_RESETn	Output	SH reset
41	SH_LA4	Input	Address bus	85	SH_DREQ0n	Output	DMA request 0
44	SH_LA3	Input	Address bus	86	SH_DREQ1n	Output	DMA request 1

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
45	SH_LA2	Input	Address bus	87	SH_DRAK0	Input	DMA request acknowl-edge 0
46	SH_LA1	Input	Address bus	88	SH_DRAK1	Input	DMA request acknowl-edge 1
47	EXT_OUTP0	Output	Expansion bus output port	89	Reserved	I/O	Not used
90	CF_RESET	Output	CF reset	139	EXT_INT0n	Input	EXT interrupt 0
92	CF_CE0n	Output	CF chip select 0	140	EXT_INT1n	Input	EXT interrupt 1
93	CF_CE1n	Output	CF chip select 1	141	EXT_INT2n	Input	EXT interrupt 2
94	CF_IOWRn	Output	CF write enable	142	EXT_INT3n	Input	EXT interrupt 3
95	CF_IORDn	Output	CF read enable	143	EXT_RESET_OUT	Output	EXT reset output
96	CF_INT	Input	CF interrupt	144	EXT_RESET_IN	Input	EXT reset input
97	CF_CDINTn	Input	CF card detect	147	EXT_DREQ0n	Input	EXT DMA request 0
99	CF_RDY	Input	CF wait	148	EXT_DREQ1n	Input	EXT DMA request 1
100	CF_VCC5ENn	Output	CF 5-V power supply	149	EXT_DACK0	Output	EXT DMA strobe 0
101	CF_VCC3ENn	Output	CF 3-V power supply	15.0	EXT_DACK1	Output	EXT DMA strobe 1
102	CF_WDBENn	Output	CF write data enable	157	PCI_INT0n	Input	PCI expansion 1 interrupt
103	CF_RDBENn	Output	CF read data enable	158	PCI_INT1n	Input	PCI expansion 2 interrupt
104	CF_RDDLATCHEN	Output	CF RD data latch	159	PCI_INT2n	Input	Ethernet interrupt
111	Reserved	I/O	Not used	160	PCI_INT3n	Input	Card bus interrupt
112	Reserved	I/O	Not used	161	PCI_PRST1n	Input	PCI expansion 1 detect

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
113	RTC_AIRQn	Input	RTC interrupt	162	PCI_PRST2n	Input	PCI expansion 2 detect
114	RTC_TIRQn	Input	RTC interrupt	163	PCI_CARDINTn	Input	Card bus detect interrupt
115	RTC_CE	Output	RTC chip select	164	Reserved	I/O	Not used
116	Reserved	I/O	Not used	166	AX_IRQn	Input	AX interrupt
119	VOYAGER_RDYn	Input	Voyager wait	167	AX_RDYn	Input	AX wait
120	VOYAGER_INTn	Input	Voyager interrupt	168	AX_CSn	Output	AX chip select
121	VOYAGER_RSTn	Output	Voyager reset	169	AX_RESETn	Output	AX reset
122	Reserved	I/O	Not used	170	Reserved	I/O	Not used
125	SDM_CSn	Output	SD chip select	172	POWER_OFFn	Output	Board power-off
126	SDM_CS	Output	SD chip select	173	LOCALBUS_ENn	Output	Local bus enable
127	SDM_INTn	Input	SD interrupt	174	Reserved	I/O	Not used
128	SDM_RESETn	Output	SD reset	175	DISP_DBEn	Output	DISP bus enable
131	SDM_PWEN	Output	SD power supply	176	DISP_RD_WRn	Output	DISP read/write
132	EXT_MONn	Input	For EXT debugging	177	Reserved	I/O	Not used
133	EXT_RD/WEn	Output	EXT read/write	179	FROMCSn	Output	FROM chip select
134	EXT_RDY	Input	EXT wait	180	Reserved	I/O	Not used
135	EXT_CS4n	Output	EXT chip select 4	182	DACK0	Input	DMA strobe 0
136	EXT_BUS_ENn	Output	EXT bus enable	183	CLK	Input	60-MHz clock
184	DACK1	Input	DMA strobe 1	198	DIPSW1	Input	S6 switch 2 recognition
186	TP_BUSY	Input	Touch-panel busy	199	DIPSW0	Input	S6 switch 1 recognition
187	TP_DOUT	Input	Touch-panel data input	200	LED7	Output	LED16 control
189	TP_DIN	Output	Touch-panel data output	202	LED6	Output	LED15 control
190	TP_CSn	Output	Touch-panel chip select	203	LED5	Output	LED14 control

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
191	DIPSW7	Input	S7 switch 4 recognition	204	LED4	Output	LED13 control
192	DIPSW6	Input	S7 switch 3 recognition	205	LED3	Output	LED12 control
193	DIPSW5	Input	S7 switch 2 recognition	206	LED2	Output	LED11 control
195	DIPSW4	Input	S7 switch 1 recognition	207	LED1	Output	LED10 control
196	DIPSW3	Input	S6 switch 4 recognition	208	LED0	Output	LED9 control
197	DIPSW2	Input	S6 switch 3 recognition				

6.2 FPGA Functional Specifications

The FPGA performs the following functions.

1) Address decoding
2) SH4 interrupt control
3) CompactFlash timing control
4) CompactFlash power-supply control
5) Display control timing control
6) SD card power-supply control
7) Realtime clock chip enable control
8) Peripheral device reset control
9) CompactFlash insertion detection: Interrupt clear control
10) Board power-off control
11) FPGA version management
12) General input ports
13) General output ports
14) EXT bus monitor control for debugging

In this section, items 2 to 13 are described.

Table 6-2 FPGA Internal Register List

No	Register name	Abbreviation	Bit	Initial value	R/W	Address
1	Interrupt mask control	IRLMSK	16	H'0000	R/W	H'04000000
2	Interrupt status control	IRLMON	16	H'0000	R/W	H'04000002
3	CompactFlash timing control	CFCTL	16	H'0000	R/W	H'04000004
4	CompactFlash power-supply control	CFPOW	16	H'0000	R/W	H'04000006
5	Display timing control	DISPCTL	16	H'0000	R/W	H'04000008
6	SD memory card power supply control	SDMPOW	16	H'0000	R/W	H'0400000A
7	RTC chip enable control	RTCCE	16	H'0000	R/W	H'0400000C
8	PCI expansion slot card detection control	PCICD	16	H'0000	R	H'0400000E
9	Touch-panel control	T_CTL	16	H'0000	R/W	H'04000010
10	Touch-panel TXCLK variable control	T_TXCLK	16	H'0000	R/W	H'04000012
11	Touch-panel control reset control	T_RST	16	H'0000	W	H'04000014
12	Touch-panel X position read data control	T_XRD	16	H'0000	R	H'04000016
13	Touch-panel Y position read data control	T_YRD	16	H'0000	R	H'04000018
14	VOYAGER reset control	VOYAGERRST	16	H'0000	W	H'04000020
15	AX_LAN reset control	AXRST	16	H'0000	W	H'04000022
16	CompactFlash reset control	CFRST	16	H'0000	W	H'04000024
17	SD memory card reset control	SDMRST	16	H'0000	W	H'04000026
18	Expansion reset control	EXTRST	16	H'0000	R/W	H'04000028
19	CompactFlash insertion detection interrupt clear control	CFCDINTCLR	16	H'0000	W	H'0400002A
20	Board power OFF control	POWOFF	16	H'0000	W	H'04000030
21	FPGA version management control	VERREG	16	H'0000	R	H'04000032
22	General input port	INPORT	16	H'0000	R	H'04000034
23	General output port	OUTPORT	16	H'0000	W	H'04000036
24	Board version management control	BVERREG	16	H'0011	R	H'04000038

6.2.1 SH4 Interrupt Control

This register controls the SH4 interrupt mask.

Address: H'04000000, register name: Interrupt mask control register (IRLMSK), initial value: H'0000			
Bit	Bit Name	R/W	Function
15	TPRDIRQ_MSK	R/W	TPRDIRQ interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
14	PCI_INT0_MSK	R/W	PCI_INT0 Interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
13	PCI_INT1_MSK	R/W	PCI_INT1 interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
12	PCI_INT2_MSK	R/W	PCI_INT2 interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
11	PCI_INT3_MSK	R/W	PCI_INT3 interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
10	VOYAGER_INT_MSK	R/W	VOYAGER_INT interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
9	CF_INT_MSK	R/W	CF_INT interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
8	CF_CDINT_MSK	R/W	CF_CDINT interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
7	SDM_INT_MSK	R/W	SDM_INT interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
6	AX_IRQ_MSK	R/W	AX_IRQ interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
5	RTC_AIRQ_MSK	R/W	RTC_AIRQ interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
4	RTC_TIRQ_MSK	R/W	RTC_TIRQ interrupt mask, 0: Interrupt masked, 1: Interrupt enabled
3	—	R	Not used
2	—	R	Not used
1	—	R	Not used
0	EXT_INT_MSK	R/W	EXT_INT interrupt mask, 0: Interrupt masked, 1: Interrupt enabled

This register monitors interrupts from external devices.

Address: H'04000002, register name: Interrupt monitor register (IRLMON), initial value: H'0000			
Bit	Bit Name	R/W	function
15	TPRDIRQ_MON	R	TPRDIRQ interrupt, 0: No interrupt, 1: With interrupt
14	PCI_INT0_MON	R	PCI_INT0 interrupt, 0: No interrupt, 1: With interrupt
13	PCI_INT1_MON	R	PCI_INT1 interrupt, 0: No interrupt, 1: With interrupt
12	PCI_INT2_MON	R	PCI_INT2 interrupt, 0: No interrupt, 1: With interrupt
11	PCI_INT3_MON	R	PCI_INT3 interrupt, 0: No interrupt, 1: With interrupt
10	VOYAGER_INT_MON	R	VOYAGER interrupt, 0: No interrupt, 1: With interrupt
9	CF_INT_MON	R	CF interrupt, 0: No interrupt, 1: With interrupt
8	CF_CDINT_MON	R	CF_CD interrupt, 0: No interrupt, 1: With interrupt
7	SDM_INT_MON	R	SDM interrupt, 0: No interrupt, 1: With interrupt
6	AX_IRQ_MON	R	AX interrupt, 0: No interrupt, 1: With interrupt
5	RTC_AIRQ_MON	R	RTC_A interrupt, 0: No interrupt, 1: With interrupt
4	RTC_TIRQ_MON	R	RTC_T interrupt, 0: No interrupt, 1: With interrupt
3	EXT_INT0_MON	R	EXT_INT0 interrupt, 0: No interrupt, 1: With interrupt
2	EXT_INT1_MON	R	EXT_INT1 interrupt, 0: No interrupt, 1: With interrupt
1	EXT_INT2_MON	R	EXT_INT2 interrupt, 0: No interrupt, 1: With interrupt
0	EXT_INT3_MON	R	EXT_INT3 interrupt, 0: No interrupt, 1: With interrupt

The following interrupts are generated in the HS7751R-Graphic module, with the priorities given below.

No.	Interrupt Type	Priority Level		Remarks
1	Ethernet interrupt	15	High	“L” level
2	CF card interrupt	14	↑	“H” level
3	CF card insertion interrupt	13		“L” level
4	PCMCIA interrupt	12		“L” level
5	VOYAGER interrupt	11		“L” level
6	AX_LAN interrupt	10		“L” level
7	RTC_Alarm interrupt	9		“L” level
8	RTC_Timer interrupt	8		“L” level
9	SD memory card (MMC) interrupt	7		“L” level
10	PCI general card 1 interrupt	6		“L” level
11	PCI general card 2 interrupt	5		“L” level
12	EXT0 interrupt	4		“L” level
13	EXT1 interrupt			
14	EXT2 interrupt			
15	EXT3 interrupt		↓	
16	Touch-panel read request interrupt	3	Low	“L” level

6.2.2 CompactFlash Timing Control

This register controls the CompactFlash timing.

Address: H’04000004, register name: CompactFlash timing control register (CFCTL), initial value: H’0000

Bit	Bit name	R/W	Function
15: 14	—	R	Not used
13	TCLK1	R/W	Timing clock division setting Bit 13 Bit 12 TCLK1 TCLK0 Clock 0 0 f 0 1 f/2 1 0 f/4 1 1 f/8
12	TCLK0	R/W	
11	—	R	Not used

Bit	Bit name	R/W	Function
10	TED2	R/W	Address to IORDn/IOWRn assertion delay time setting Bit 10 Bit 9 Bit 8 TED2 TED1 TED0 Inserted number of wait cycles 0 0 0 1 0 0 1 2 0 1 0 3 0 1 1 6 1 0 0 9 1 0 1 12 1 1 0 15
9	TED1	R/W	
8	TED0	R/W	
7	—	R	Not used
6	THE2	R/W	IORDn/IOWRn negation to address delay time setting Bit 6 Bit 5 Bit 4 THE2 THE1 THE0 Number of inserted wait cycles 0 0 0 1 0 0 1 2 0 1 0 3 0 1 1 6 1 0 0 9 1 0 1 12 1 1 0 15
5	THE1	R/W	
4	THE0	R/W	
3	—	R	Not used
2	—	R	Not used
1	PCW1	R/W	PCMCIA wait cycle insertion setting Bit 1 Bit 0 Number of inserted wait cycles PCW1 PCW0 0 0 1 0 1 15 1 0 20 1 1 30
0	PCW0	R/W	

6.2.3 CompactFlash Power Supply Control

This register controls the power supply to the CompactFlash.

Address: H'04000006, register name: CompactFlash power supply control register (CFPOW), initial value: H'0000					
Bit	Bit name	R/W	Function		
15: 2	—	R	Not used		
1	VCC5EN	R/W	Bit 1	Bit 0	
			VCC5EN	VCC3EN	Supplied power
			0	0	0V
0	VCC3EN	R/W	0	1	3 V
			1	0	5 V
			1	1	Setting prohibited

6.2.4 Display Timing Control

This register controls the timing of the display controller.

Address: H'04000008, register name: Display timing control register (DISPCTL), initial value: H'0000						
Bit	Bit name	R/W	Function			
15: 14	—	R	Not used			
13	DCLK1	R/W	Timing clock division setting			
			Bit 13	Bit 12		
			DCLK1	DCLK1	Clock	
			0	0	ϕ	
12	DCLK0	R/W	0	1	ϕ/2	
			1	0	ϕ/4	
			1	1	ϕ/8	
11	—	R	Not used			
10	TAS2	R/W	Address to DISP_CE assertion delay time setting			
			Bit 10	Bit 9	Bit 8	
			TAS2	TAS1	TAS0	Number of inserted wait cycles
9	TAS1	R/W	0	0	0	1
			0	0	1	2
			0	1	0	3
8	TAS0	R/W	0	1	1	6
			1	0	0	9
			1	0	1	12
			1	1	0	15

Bit	Bit name	R/W	Function
7	—	R	DISP_CE negation to address delay time setting
6	TAH2	R/W	Bit 6 Bit 5 Bit 4
5	TAH1	R/W	THE2 THE1 THE0 Number of inserted wait cycles
4	TAH0	R/W	0 0 0 1 0 0 1 2 0 1 0 3 0 1 1 6 1 0 0 9 1 0 1 12 1 1 0 15
3	—	R	Not used
2	—	R	Not used
1	PWEH1	R/W	DISP_CE assertion period setting
0	PWEH0	R/W	Bit 1 Bit 0 PWEH1 PWEH0 Number of inserted wait cycles 0 0 1 0 1 15 1 0 20 1 1 30

6.2.5 SD Memory Card (MultimediaCard) Power Supply Control

This register controls the power supplied to the SD memory card (MultimediaCard).

Address: H'0400000A, register name: SDM power supply control register (SDMPOW), initial value: H'0000			
Bit	Bit name	R/W	Function
15: 1	—	R	Not used
0	VCCEN	R/W	0: No power supply, 1: With power supply

6.2.6 Realtime Clock Chip Enable Control

This register controls the RTC-9701 chip enable.

Address: H'0400000C register name: Realtime clock chip enable control register (RTCCE), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	CEEN	R/W	0: Disabled, 1: Enabled

6.2.7 PCI Expansion Slot Card Detection Control

This register detects the PCI expansion slot card insertion.

Address: H'0400000E, register name: PCI expansion card slot detection control register (PCICD), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 2	—	R	Not used
1	PCI_PRST2	R	PCI expansion slot: 20: Card not inserted, 1: Card inserted
0	PCI_PRST1	R	PCI expansion slot: 10: Card not inserted, 1: Card inserted

6.2.8 Touch-panel I/F control

This register controls the touch-panel I/F.

Address: H'04000010, register name: Touch-panel control register (T_CTL), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	TEN	R/W	0: Disabled, 1: Enabled

This register controls the variable transmission clock.

Address: H'04000012, register name: Touch-panel TXCLK variable control register (T_TXCLK), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 4	—	R	—
3	TC3	R/W	Variable in 5-kHz units from about 60 kHz to 110 kHz
2	TC2	R/W	
1	TC1	R/W	
0	TC0	R/W	

Bit 3	Bit 2	Bit 1	Bit 0	
TC3	TC2	TC1	TC0	TXCLK
0	0	0	0	60 kHz
0	0	0	1	65 kHz
0	0	1	0	70 kHz
0	0	1	1	75 kHz
0	1	0	0	80 kHz
0	1	0	1	85 kHz
0	1	1	0	90 kHz
0	1	1	1	95 kHz
1	0	0	0	100 kHz
1	0	0	1	105 kHz
1	0	1	0	110 kHz
Other than above				60 kHz

This register resets the touch-panel control registers.

Address: H'04000014, register name: Touch-panel reset control register (T_RST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	TRST	W	When this bit is set to 1, a reset occurs, writing 0 to this bit is invalid

This register controls the X position data.

Address: H'04000016, register name: Touch-panel X position data control register (T_XRD), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 12	—	R	Not used
11: 0	XD11 to XD0	R	Touch-panel X position read data Automatically cleared after reading once

This register controls the Y position data.

Address: H'04000018, register name: Touch-panel Y position data control register (T_YRD), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 12	—	R	Not used
11: 0	YD11 to YD0	R	Touch-panel Y position read data Automatically cleared after reading once

6.2.9 Peripheral Device Reset Control

This register controls reset output to the peripheral devices.

Address: H'04000020, register name: Voyager reset control register (VOYAGERRST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	VOYAGER_RST	W	Writing 1 to this bit outputs a 10-μs pulse width reset. Writing 0 to this bit is invalid.

Address: H'04000022, register name: AX_LAN reset control register (AXRST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	AX_RST	W	Writing 1 to this bit outputs a 10-μs pulse width reset. Writing 0 to this bit is invalid.

Address: H'04000024, register name: CF reset control register (CFRST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	CF_RST	W	Writing 1 to this bit outputs a 10-μs pulse width reset. Writing 0 to this bit is invalid.

Address: H'04000026, register name: SDM reset control register (SDMRST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	SDM_RST	W	Writing 1 to this bit outputs a 10-μs pulse width reset, Writing 0 to this bit is invalid.

Address: H'04000028, register name: EXT reset control register (EXTRST), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 9	—	R	Not used
8	EXT_IN_ACTIVE	R/W	0: Active "L" 1: Active "H"
7: 5	—	R	Not used
4	EXT_OUT_ACTIVE	R/W	0: Active "L" 1: Active "H"
3: 1	—	R	Not used
0	EXT_OUT_RST	W	Writing 1 to this bit outputs a 10-μs pulse width reset. Writing 0 to this bit is invalid.

6.2.10 CompactFlash Insertion Detection Interrupt Clear Control

Address: H'0400002A, register name: CF insertion interrupt clear control register (CFCDINTCLR), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	CFCLR	W	Writing 1 to this bit clears the CFCDINT interrupt, writing 0 to this bit is invalid.

6.2.11 Board Power Off Control

This register turns off the board power supply.

Address: H'04000030, register name: Board power OFF control register (POWOFF), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 1	—	R	Not used
0	POW_OFF	W	Writing 1 to this bit turns off the board power supply, writing 0 to this bit is invalid.

6.2.12 FPGA Version Management Control

This register controls the FPGA version management.

Address: H'04000032, register name: FPGA version management control register (VERREG), initial value: H'0010			
Bit	Bit Name	R/W	Function
15: 8	—	R	Not used
7	VER3	R	Version management
6	VER2	R	
5	VER1	R	
4	VER0	R	
3	REV3	R	Revision management
2	REV2	R	
1	REV1	R	
0	REV0	R	

6.2.13 General Input Port Control

This register controls the general input port for debugging.

Address: H'04000034, register name: General input port register (INPORT), initial value: H'00xx (To see the state of DIP SW, initial value is undefined.)			
Bit	Bit Name	R/W	Function
15: 8	—	R	Not used
7	DIPSW7	R	S7 switch 4 recognition, 0: Off 1: On
6	DIPSW6	R	S7 switch 3 recognition, 0: Off 1: On
5	DIPSW5	R	S7 switch 2 recognition, 0: Off 1: On
4	DIPSW4	R	S7 switch 1 recognition, 0: Off 1: On
3	DIPSW3	R	S6 switch 4 recognition, 0: Off 1: On
2	DIPSW2	R	S6 switch 3 recognition, 0: Off 1: On
1	DIPSW1	R	S6 switch 2 recognition, 0: Off 1: On
0	DIPSW0	R	S6 switch 1 recognition, 0: Off 1: On

6.2.14 General Output Port Control

This register controls the general output port for debugging.

Address: H'04000036, register name: General output port register (OUTPORT), initial value: H'0000			
Bit	Bit Name	R/W	Function
15: 8	—	R	Not used
7	LED7	W	LED16 control, 0: Off 1: Lit
6	LED6	W	LED15 control, 0: Off 1: Lit
5	LED5	W	LED14 control, 0: Off 1: Lit
4	LED4	W	LED13 control, 0: Off 1: Lit
3	LED3	W	LED12 control, 0: Off 1: Lit
2	LED2	W	LED11 control, 0: Off 1: Lit
1	LED1	W	LED10 control, 0: Off 1: Lit
0	LED0	W	LED9 control, 0: Off 1: Lit

6.2.15 Board Version Management Control

This register controls the FPGA version management.

Address: H'04000038, register name: Board version management control register (BVERREG), initial value: H'0011			
Bit	Bit Name	R/W	Function
15: 8	—	R	Not used
7	BVER3	R	Version management
6	BVER2	R	
5	BVER1	R	
4	BVER0	R	
3	BREV3	R	Revision management
2	BREV2	R	
1	BREV1	R	
0	BREV0	R	

6.3 FPGA Internal Register List

Register name	Bit	15	14	13	12	11	10	9	8
Interrupt mask control register (IRLMSK)	Signal name	PCI_INT0 MSK	PCI_INT1 MSK	PCI_INT2 MSK	PCI_INT3 MSK	CB_CD INT_MSK	VOYAGER INT_MSK	CF_INT MSK	CF_CD INTMSK
	Initial value	0	0	0	0	0	0	0	0
	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W
Address	Bit	7	6	5	4	3	2	1	0
H'04000000	Signal name	VOYAGER INT_MSK	CF_INT MSK	CF_CD INTMSK	SDM_INT MSK	AX_IRQ MSK	RTC_A IRQMSK	RTC_T IRQMSK	EXT_INT MSK
	Initial value	0	0	0	0	0	0	0	0
	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W

Register name	Bit	15	14	13	12	11	10	9	8
Interrupt monitor register (IRLMON)	Signal name	PCI_INT0 MON	PCI_INT1 MON	PCI_INT2 MON	PCI_INT3 MON	CB_CD INT_MON	VOYAGER INT_MON	CF_INT MON	CF_CD INTMON
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000002	Signal name	SDM_INT MON	AX_IRQ MON	RTC_A IRQMON	RTC_T IRQMON	EXT_INT 0MON	EXT_INT 1MON	EXT_INT 2MON	EXT_INT 3MON
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
Compact-Flash timing control register (CFCTL)	Signal name	—	—	DCLK1	DCLK0	—	TED2	TED1	TED0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R/W	R/W	R	R/W	R/W	R/W
Address	Bit	7	6	5	4	3	2	1	0
H'04000004	Signal name	—	TEH2	TEH1	TEH0	—	—	PCW1	PCW0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R/W	R/W	R/W	R	R	R/W	R/W

Register name	Bit	15	14	13	12	11	10	9	8
CompactFlash power supply control register (CFPOW)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000006	Signal name	—	—	—	—	—	—	VCC5EN	VCC3EN
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R/W	R/W

Register name	Bit	15	14	13	12	11	10	9	8
Display controller timing control register (DISPCTL)	Signal name	—	—	DCLK1	DCLK0	—	TAS2	TAS1	TAS0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R/W	R/W	R	R/W	R/W	R/W
Address	Bit	7	6	5	4	3	2	1	0
H'04000008	Signal name	—	TEH2	TEH1	TEH0	—	—	PCW1	PCW0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R/W	R/W	R/W	R	R	R/W	R/W

Register name	Bit	15	14	13	12	11	10	9	8
SD memory Card power supply control register (SDMPOW)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'0400000A	Signal name	—	—	—	—	—	—	—	VCCEN
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
RTC chip enabled control register (RTCCE)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'0400000C	Signal name	—	—	—	—	—	—	—	CEEN
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
PCI expansion slot card detection control register (PCIID)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'0400000E	Signal name	—	—	—	—	—	—	PCI_ PRST2	PCI_ PRST1
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
Touch-panel control register (T_CTL)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000010	Signal name	—	—	—	—	—	—	—	TEN
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
Touch-panel TXCLK variable control register (T_TXCLK)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000012	Signal name	—	—	—	—	TC3	TC2	TC1	TC0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R/W	R/W	R/W	R/W

Register name	Bit	15	14	13	12	11	10	9	8
Touch-panel reset control register (T_RST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000014	Signal name	—	—	—	—	—	—	—	TRST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	W

Register name	Bit	15	14	13	12	11	10	9	8
Touch-panel X position read data control register (T_XRD)	Signal name	—	—	—	—	XD11	XD10	XD9	XD8
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000016	Signal name	XD7	XD6	XD5	XD4	XD3	XD2	XD1	XD0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
Touch-panel Y position Read data control register (T_YRD)	Signal name	—	—	—	—	YD11	YD10	YD9	YD8
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000018	Signal name	YD7	YD6	YD5	YD4	YD3	YD2	YD1	YD0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
Voyager reset control register (VOYAGER RST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000020	Signal name	—	—	—	—	—	—	—	VOYAGER RST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
AX_LAN reset control register (AXRST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000022	Signal name	—	—	—	—	—	—	—	AXRST RST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
CF reset control register (CFRST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000024	Signal name	—	—	—	—	—	—	—	CF RST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
SDM reset control register (SDMRST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000026	Signal name	—	—	—	—	—	—	—	SDM RST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

register name	Bit	15	14	13	12	11	10	9	8
EXT reset control register (EXTRST)	Signal name	—	—	—	—	—	—	—	EXT_IN ACTIVE
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W
Address	Bit	7	6	5	4	3	2	1	0
H'04000028	Signal name	—	—	—	EXT_OUT ACTIVE	—	—	—	EXT_OUT RST
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R/W	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
CF insertion interrupt clear control register (CFCDINTRST)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'0400002A	Signal name	—	—	—	—	—	—	—	CFCLR
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
Board power Off control register (POWOFF)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000030	Signal name	—	—	—	—	—	—	—	POW_OFF
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R/W

Register name	Bit	15	14	13	12	11	10	9	8
FPGA version management control register (VERREG)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000032	Signal name	VER3	VER2	VER1	VER0	REV3	REV2	REV1	REV0
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
General input control register (INPORT)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000034	Signal name	DIPSW7	DIPSW6	DIPSW5	DIPSW4	DIPSW3	DIPSW2	DIPSW1	DIPSW0
	Initial value	*	*	*	*	*	*	*	*
	R/W	R	R	R	R	R	R	R	R

Register name	Bit	15	14	13	12	11	10	9	8
General output control register (OUTPORT)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H'04000036	Signal name	LED7	LED6	LED5	LED4	LED3	LED2	LED1	LED0
	Initial value	0	0	0	0	0	0	0	0
	R/W	W	W	W	W	W	W	W	W

Register name	Bit	15	14	13	12	11	10	9	8
Expansion output control register (EXT OUTPORT)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H’04000038	Signal name	—	—	—	—	—	—	—	PO1
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	W

Register name	Bit	15	14	13	12	11	10	9	8
Board version management control register (BVERREG)	Signal name	—	—	—	—	—	—	—	—
	Initial value	0	0	0	0	0	0	0	0
	R/W	R	R	R	R	R	R	R	R
Address	Bit	7	6	5	4	3	2	1	0
H’04000038	Signal name	BVER3	BVER2	BVER1	BVER0	BREV3	BREV2	BREV1	BREV0
	Initial value	0	0	0	1	0	0	0	1
	R/W	R	R	R	R	R	R	R	R

7 Sample SH7751R Setting

This section describes the sample SH7751R internal register settings to operate this board.

7.1 CPG Setting

The setting of the clock pulse generator (CPG), which is part of the SH7751R internal oscillation circuit, is shown below. The CPG generates the clock to be supplied internally to the SH7751R, and controls the power-down modes. The configuration of registers is as follows:

Name	Abbreviation	R/W	Initial value	P4 Address	Area 7 Address	Access Size
Frequency control register	FRQCR	R/W	Undefined	H'FFC00000	H'1FC00000	16

Clock operating mode	Combination of external pins			PLL1	PLL2	Frequency (for input clock)			FRQCR Initial Value
	MD2	MD1	MD0			CPU Clock	Bus Clock	Peripheral Module Clock	
0	0	0	0	On (x12)	On	12	3	3	H'0E1A
1	0	0	1	On (x12)	On	12	3/2	3/2	H'0E2C
2	0	1	0	On (x6)	On	6	2	1	H'0E13
3	0	1	1	On (x12)	On	12	4	2	H'0E13
4	1	0	0	On (x6)	On	6	3	3/2	H'0E0A
5	1	0	1	On (x12)	On	12	6	3	H'0E0A
6	1	1	0	On (x6)	Off	1	1/2	1/2	H'0808

A 20-MHz bus clock is input to this board, and the clock operating mode is set to mode 5, to accelerate the access speed to an SDRAM with an SH7751R internal clock of 240 MHz and bus clock setting of 120 MHz. Setting the mode switch to S5 (S5-2: S5-3: S5-4: On, off, on) sets the FRQCR to H'0E0A.

To secure the stabilized clock time, an on-chip watchdog timer (WDT) is used. For details, refer to the SH7751 Series Hardware Manual (RJ No.).

7.2 BSC Setting

The bus state controller (BSC) divides the external memory space, and sets various memory units and external bus control signals. The register configuration is shown below.

Name	Abbr.	R/W	Setting Example	P4 Address	Area 7 Address	Access Size
Bus control register 1	BCR1	R/W	H'00080008	H'FF800000	H'1F800000	32
Bus control register 2	BCR2	R/W	H'AAE8	H'FF800004	H'1F800004	16
Bus control register 3	BCR3	R/W	H'0000	H'FF800050	H'1F800050	16
Bus control register 4	BCR4	R/W	H'00000011	H'FE0A00F0	H'1E0A00F0	32
Wait control register 1	WCR1	R/W	H'33333333	H'FF800008	H'1F800008	32
Wait control register 2	WCR2	R/W	H'CFFA6FBF	H'FF80000C	H'1F80000C	32
Wait control register 3	WCR3	R/W	H'07777707	H'FF800010	H'1F800010	32
Individual memory control register	MCR	R/W	H'081901F4	H'FF800014	H'1F800014	32
PCMCIA control register	PCR	R/W	H'0000	H'FF800018	H'1F800018	16
Refresh timer control/status register	RTCSR	R/W	H'A510	H'FF80001C	H'1F80001C	16
Refresh time constant register	RTCOR	R/W	H'A534	H'FF800024	H'1F800024	16
Synchronous DRAM mode register (area 3)	SDMR3	W	H'55 (as desired)	H'FF9400CC	H'1F9400CC	8

7.2.1 BCR1 Setting

BCR1 specifies the function and the bus cycle state of each area. A setting example is as follows:

Set value: H'0000800008

b26: 0	Data-pin pull-up resistor: On
b25: 0	Control input pin pull-up resistor: On
b24: 0	Control output pin pull-up resistor: On
b21: 0	Area 1 SRAM: Normal mode
b20: 0	Area 4 SRAM: Normal mode
b19: 1	Accepts external requests and bus requests from PCIC
b17: 0	Selects an SRAM interface when areas 1 to 6 are set to SRAM interface
b16: 0	Turns off the DMAC burst mode transfer priority specification
b15: 0	A[25.0], BSn, CSn, RD/WRn, CE2An, and CE2Bn signals are in the high-impedance state during standby or when bus use is released
b14: 0	RASn, WEn, DQM, and RDn signals are in the high-impedance state during standby or when bus use is released
b13, 12, 11: 0, 0, 0	Access area 0 used as an SRAM interface
b10, b9, b8: 0, 0, 0	Access area 5 used as an SRAM interface
b7, b6, b5: 0, 0, 0	Access area 6 used as an SRAM interface
b4, b3, b2: 0, 1, 0	Access area 2 used as an SRAM interface, access area 3 used as an SDRAM interface
b0: 0	Access areas 5 and 6 used as an SRAM interface

7.2.2 BCR2 Setting

BCR2 specifies the bus width of each area and whether the 32-bit port is used.

On this board, the PCI bus is used; the 32-bit port is not used.

Note: * The bus size of area 0 is set through external input pins (MD4 and MD3). It is set to a 16-bit bus width. A setting example is shown below.

Set value H'AAF8

b15, b14: 1, 0	Area 0 bus width: Set to 16 bits (MD4 and MD3 set values)
b13, b12: 1, 0	Area 6 bus width: Set to 16 bits
b11, b10: 1, 0	Area 5 bus width: Set to 16 bits
b9, b8: 1, 0	Area 4 bus width: Set to 16 bits
b7, b6: 1, 1	Area 3 bus width: Set to 32 bits
b5, b4: 1, 1	Area 2 bus width: Set to 32 bits

b3, b2: 1, 0 Area 1 bus width: Set to 16 bits

b0: 0 Do not use AD31 to AD0 as ports

7.2.3 BCR3 Setting

BCR3 specifies the switching between the MPX and SRAM interface, and the burst length of the SDRAM interface. Sample settings are as follows:

Set value H'0000

b15: 0 MEMMPX (bit 17 in BCR1) setting

b14: 0 Area 1: SRAM/byte control SRAM interface is selected

b13: 0 Area 4: SRAM/byte control SRAM interface is selected

b0: 0 SDRAM burst length: Set to 8

7.2.4 BCR4 Setting

BCR4 is a register which enables asynchronous input of pins that correspond to each bit. Sample settings are as follows:

Set value H'00000011

b4: 1 IOIS16n: Synchronized with CKIO

b3: 0 DREQ1n: Asynchronous input to CKIO is possible

b2: 0 DREQ0n: Asynchronous input to CKIO is possible

b1: 0 BREQn: Synchronized with CKIO

b0: 1 RDYn: Asynchronous input to CKIO is possible

7.2.5 WCR1 Setting

WCR1 specifies the number of idle-state cycles to be inserted to each area. Sample settings are as follows:

Set value H'33333333

b30, b29, b28: 0, 1, 1 Number of idle cycles inserted to the bus cycle when switching to or from a device with DACK or switching to or from a read and write on a device: 3

b26, b25, b24: 0, 1, 1 Number of idle cycles inserted to the bus cycle when switching from area 6 to another area, or switching to or from a read and write on an area: 3

b22, b21, b20: 0, 1, 1 Number of idle cycles inserted to the bus cycle when switching from area 5 to another area, or switching to or from a read and write on an area: 3

b18, b17, b16: 0, 1, 1 Number of idle cycles inserted to the bus cycle when switching from area 4 to another area, or switching to or from a read and write on an area: 3

b14, b13, b12: 0, 1, 1 Number of idle cycles inserted to the bus cycle when switching from area 3 to

	another area, or switching to or from a read and write on an area: 3
b10, b9, b8: 0, 1, 1	Number of idle cycles inserted to the bus cycle when switching from area 2 to another area, or switching to or from a read and write on an area: 3
b6, b5, b4: 0, 1, 1	Number of idle cycles inserted to the bus cycle when switching from area 1 to another area, or switching to or from a read and write on an area: 3
b2, b1, b0: 0, 1, 1	Number of idle cycles inserted to the bus cycle when switching from area 6 to another area, or switching to or from a read and write on an area: 3

7.2.6 WCR2 Setting

WCR2 specifies the number of inserted wait cycles in each area. Since the burst ROM is not set to this board, the burst pitch is the initial value. Sample settings are as follows:

Set value H'FFFA6FBF

b31, b30, b29: 1, 1, 1	Number of inserted wait state cycles to be inserted to area 6: 15
b25, b24, b23: 1, 1, 1	Number of inserted wait state cycles to be inserted to area 5: 15
b19, b18, b17: 1, 0, 1	Number of inserted wait state cycles to be inserted to area 4:: 9
b15, b14, b13: 0, 1, 1	Number of CAS latency cycles in the area 3 SDRAM: 3
b11, b10, b9: 1, 1, 1	Number of inserted wait state cycles to be inserted to area 2: 15
b8, b7, b6: 1, 1, 0	Number of inserted wait state cycles to be inserted to area 1: 12
b5, b4, b3: 1, 1, 1	Number of inserted wait state cycles to be inserted to area 0: 15

7.2.7 WCR3 Setting

WCR3 specifies the setup time until the assertion of a read/write strobe from the address of each area, and the inserted cycles of the data hold time until the negation of the write strobe. Sample settings are as follows:

Set value H'07777707

b26: 1	Area 6 is the externally expanded bus, so the initial value is set.
b25, b24: 1, 1	Area 6 is the externally expanded bus, so the initial value is set.
b22: 1	Number of wait states to be inserted to the setup time of a read/write strobe signal in area 5: 1
b21, b20: 1: 1	Number of wait states to be inserted to the data hold time in area 5: 3
b19: 0	Number of wait states to be inserted to the hold time of a read strobe of area 4: 0
b18: 1	Number of wait states to be inserted to the setup time of a read/write strobe signal in area 4: 1
b17, b16: 1, 1	Number of wait states to be inserted to the data hold time in area 4: 3
b14: 1	Area 3 is the SDRAM area, so the set value is invalid.

b13, b12: 1, 1	Area 3 is the SDRAM area, so the set value is invalid.
b10: 1	Area 2 is not used; initial value
b9, b8: 1, 1	Area 2 is not used; initial value
b7: 0	Number of wait states to be inserted to the data hold time in area 1: 0
b6: 0	Number of wait states to be inserted to the hold time of a read strobe of area 1: 0
b5, b4: 0, 0	Number of wait states to be inserted to the data hold time in area 1: 0
b2: 1	Number of wait states to be inserted to the hold time of a read strobe of area 0: 1
b1, b0: 1, 1	Number of wait states to be inserted to the data hold time in area 0: 3

7.2.8 MCR Setting

MCR specifies the SDRAM timing for RASn, CASn, burst control, address multiplex, and refresh. Do not access area 3 until the initial setting of this register has been completed.

Sample settings are as follows:

Set value H’081901F4

b31: 0	Used in normal mode
b30: 0	Precharge all banks
b29, b28, b27: 0, 0, 1	RAS precharge period after refresh: 3
b23: 0	CAS negation period: 1
b21, b20, b19: 0, 1, 1	Minimum number of cycles until the next bank-active command is output after precharge: 4
b17, b16: 0, 1	Bank active-read/write command delay time: 2 cycles
b15, b14, b13: 0, 0, 0	Precharge delay time after writing to the SDRAM: 1
b12, b11, b10: 0, 0, 0	After the auto-refresh command has been issued, the bank-active command is not issued for a period of 4 cycles
b8, b7: 1, 1	SDRAM bus width: 32 bits
b6: 1	SDRAM (4M x 16 bit x 4) x 2 pcs
b5, b4, b3: 1, 1, 0	SDRAM (4M x 16 bits x 4) x 2 pcs
b2: 1	Refresh
b1: 1	Self-refresh

7.2.9 PCR Setting (PCMCIA mode is not used; initial value)

Set value H’0000

7.2.10 RTCSR Setting

RTCSR specifies the refresh period and generation of interrupts. (When writing to this bit, add H’A5 to the upper 8 bits and write in 16 bits.) Sample settings are as follows:

Set value H’A510

b7: 0	RTCNT and RTCOR values do not match (initial value)
b6: 0	Interrupt request is prohibited by the CMF (compare match flag) (initial value)
b5, b4, b3: 0, 1, 0	Input clock to the RTCNT is set to CKIO/16.
b2: 0	The count limit value indicated by LMTS shows that the RFCR has not overflowed (initial value)
b1: 0	Interrupt request is prohibited by OVF (initial value)
b0: 0	Count limit value: 1024 (initial value)

7.2.11 RTCOR Setting

RTCOR specifies the upper limit value of the RTCNT counter. A memory refresh cycle is generated when the values of RTCOR and RTCNT match, if the refresh is enabled by MCR and the refresh type is specified as CAS before RAS. (Write in 16-bit units by adding H’A5 to upper 8 bits.) Sample settings are as follows:

Set value H’A534

RTCSR setting: CKIO/16: 120 MHz/16 = 7.5 MHz (133 ns))

When the refresh intervals are about 6.9 μs (133 ns x 52 = about 6.9 μs), the set value is 52 (H’34).

7.2.12 SDMR3 Setting

SDMR3 sets the SDRAM mode for area 3.

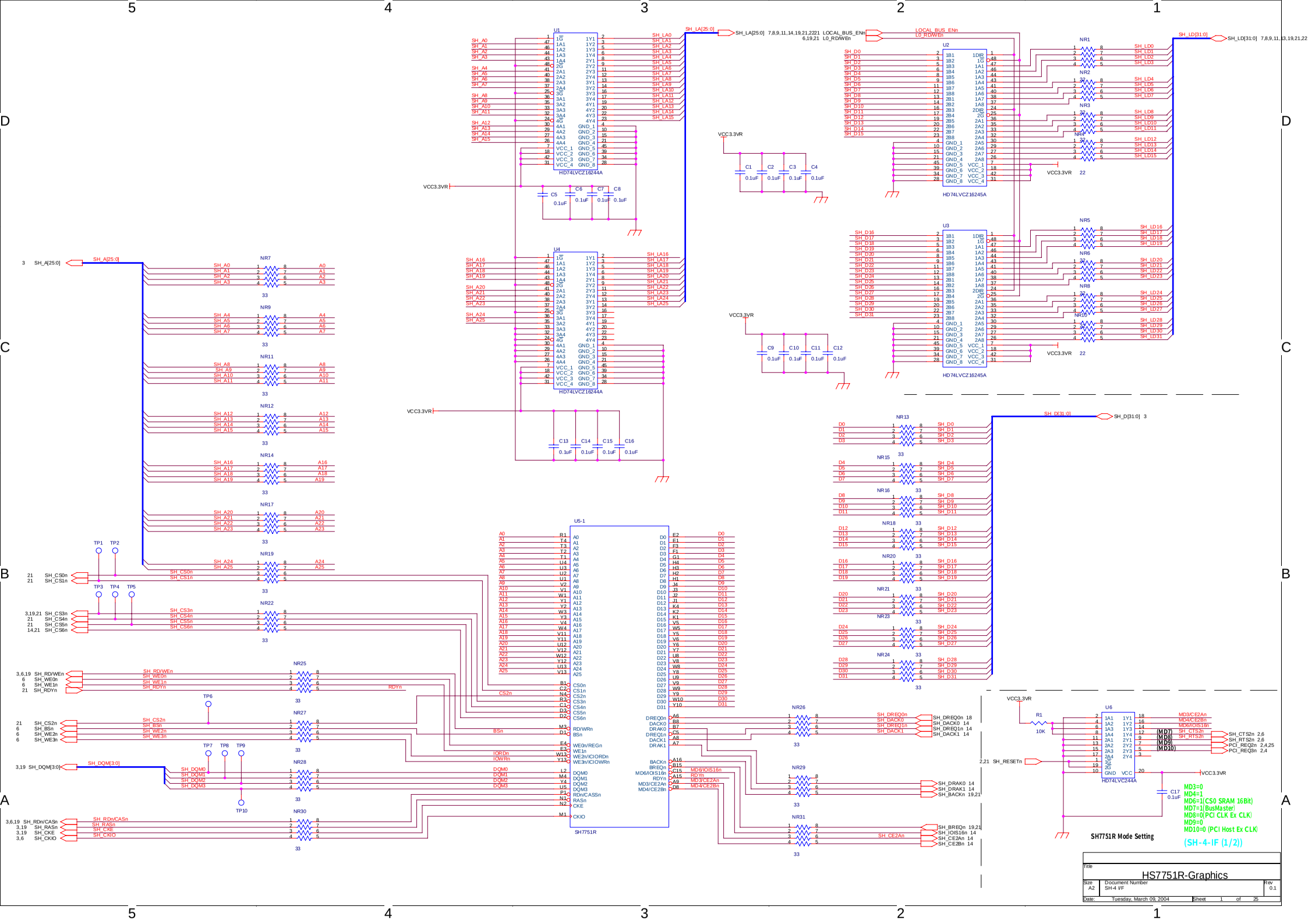
The address bus is used to write to the SDRAM mode register. For details, refer to the description of SDMR in the SH7751 Hardware Manual. Sample settings are as follows:

Set value Set Address: H’FF94000CC (H’1F94000CC) Data: H’xx (desired data)

b8, b7, b6: 0, 1, 1	RAS-CAS latency: 3
b5: 0	Wrap type: Sequential
b4, b3, b2: 0, 1, 1	Burst length: 8

8 Circuit Diagram

A circuit board diagram of this board is shown below.


U1
HD74LVCZ16244A
SH_LA[25:0]
SH_LA[25:0] 7,8,9,11,14,19,21,2221 LOCAL_BUS_ENn
6,19,21 L0_RDWEn
VCC3.3VR
C1 0.1uF
C2 0.1uF
C3 0.1uF
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 0.1uF
C8 0.1uF
U4
HD74LVCZ16244A
C9 0.1uF
C10 0.1uF
C11 0.1uF
C12 0.1uF
C13 0.1uF
C14 0.1uF
C15 0.1uF
C16 0.1uF
LOCAL_BUS_ENn
L0_RDWEn
U2
HD74LVCZ16245A
SH_LD[31:0]
SH_LD[31:0] 7,8,9,11,13,19,21,22
NR1
NR2
NR3
NR4
22
U3
HD74LVCZ16245A
NR5
NR6
NR8
NR11
SH_A[25:0]
NR7
NR9
NR11
NR12
NR14
NR17
NR19
33
TP1
TP2
TP3
TP4
TP5
NR22
SH_CS0n
SH_CS1n
SH_CS3n
SH_CS4n
SH_CS5n
SH_CS6n
TP6
NR25
SH_RD/WEn
SH_WE0n
SH_WE1n
SH_RDYn
RDYn
NR27
SH_CS2n
SH_BSn
SH_WE2n
SH_WE3n
BSn
TP7
TP8
TP9
TP10
NR28
SH_DQM[3:0]
SH_DQM0
SH_DQM1
SH_DQM2
SH_DQM3
NR30
SH_RDn/CASn
SH_RASn
SH_CKE
SH_CKIO
U5-1
SH7751R
CS2n
RDn/WRn
WE0n/REGn
WE1n
WE2n/ICIORDn
WE3n/ICIOWRn
IORDn
IOWRn
DQM0
DQM1
DQM2
DQM3
RDn/CASSn
RASn
CKE
CKIO
NR13
NR15
NR16
NR18
NR20
NR21
NR23
NR24
SH_D[31:0]
SH_D[31:0] 3
NR26
NR29
NR31
SH_DREQ0n
SH_DACK0
SH_DREQ1n
SH_DACK1
SH_DRAK0 14
SH_DRAK1 14
SH_BACKn 19,21
SH_BREQn 19,21
SH_IOIS16n 14
SH_CE2An 14
SH_CE2Bn 14
MD6/IOIS16n
RDYn
MD3/CE2An
MD4/CE2Bn
VCC3.3VR
R1
10K
2,21 SH_RESETn
U6
HD74LVC244A
MD3/CE2An
MD4/CE2Bn
MD6/IOIS16n
SH_CTS2n
SH_RTS2n
PCI_REQ2n 2,4,25
PCI_REQ3n 2,4
(MD7)
(MD8)
(MD9)
(MD10)
C17 0.1uF
MD3=0
MD4=1
MD6=1(CS0 SRAM 16Bit)
MD7=1(BusMaster)
MD8=0(PCI CLK Ex CLK)
MD9=0
MD10=0 (PCI Host Ex CLK)
SH7751R Mode Setting
(SH-4-IF (1/2))
Title
HS7751R-Graphics
Size A2
Document Number SH-4 I/F
Rev 0.1
Date: Tuesday, March 09, 2004
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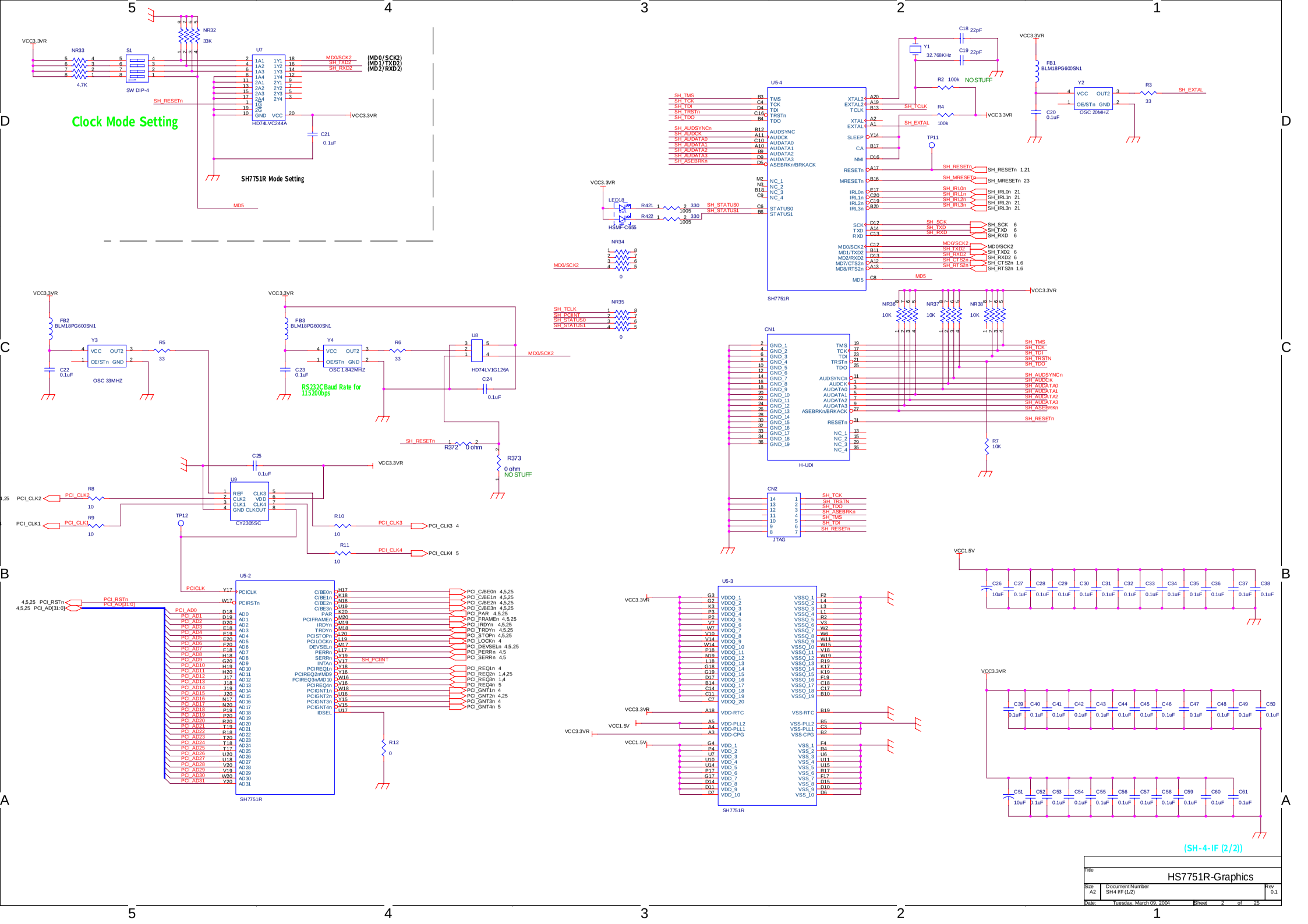
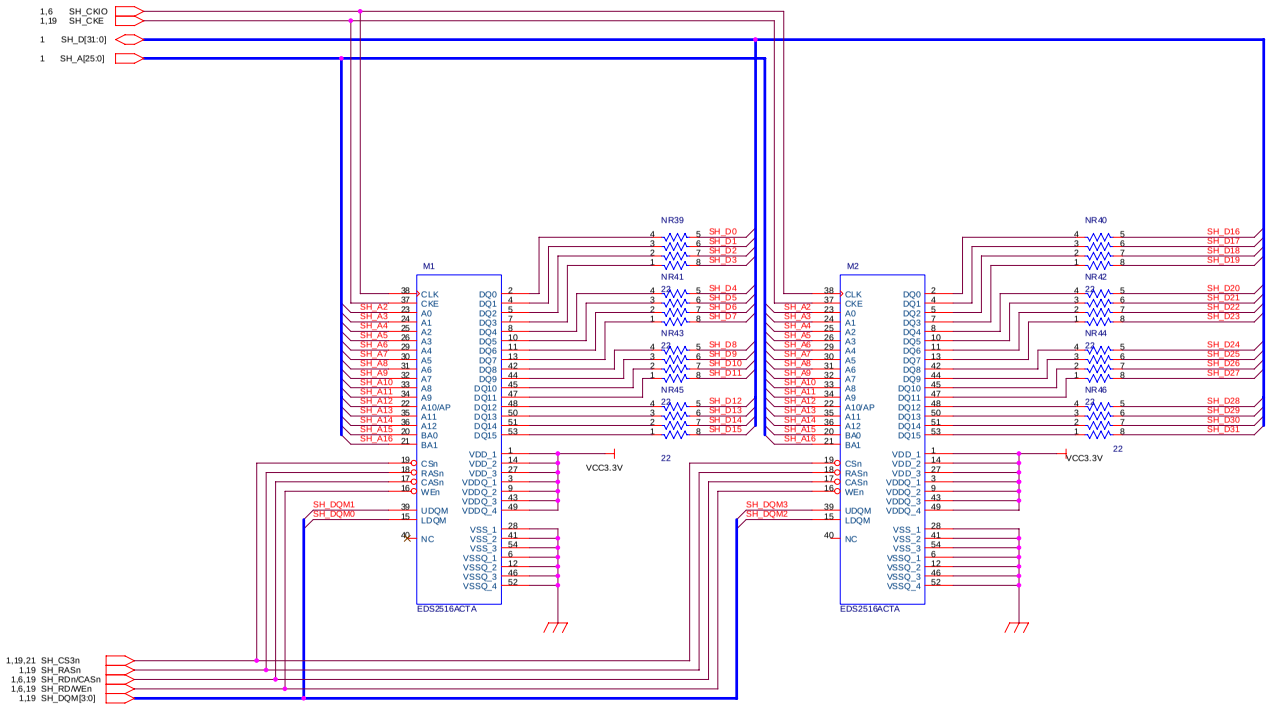
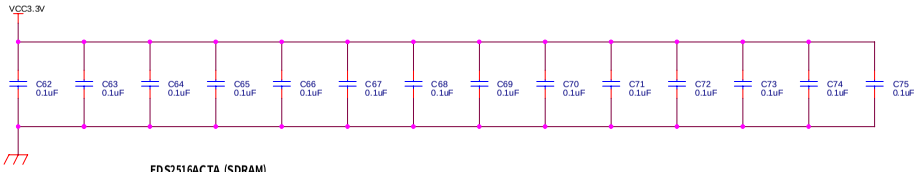

Clock Mode Setting
SH7751R Mode Setting
RS232C Baud Rate for 115200bps
(SH-4-IF (2/2))
SH7751R-Graphics
Tuesday, March 09, 2004





EDS2516ACTA (SDRAM)
用電源コンデンサーの配置は ICの電源PINにそれぞれ
対応する様に配置を行う、できる限りICPINの近くに配置する。
使用コンデンサーは (LLL185B1A104 MURATA)

(MAIN-SDRAM)

Title	HS7751R-Graphics	
Size A2	Document Number SDRAM	Rev 0.1
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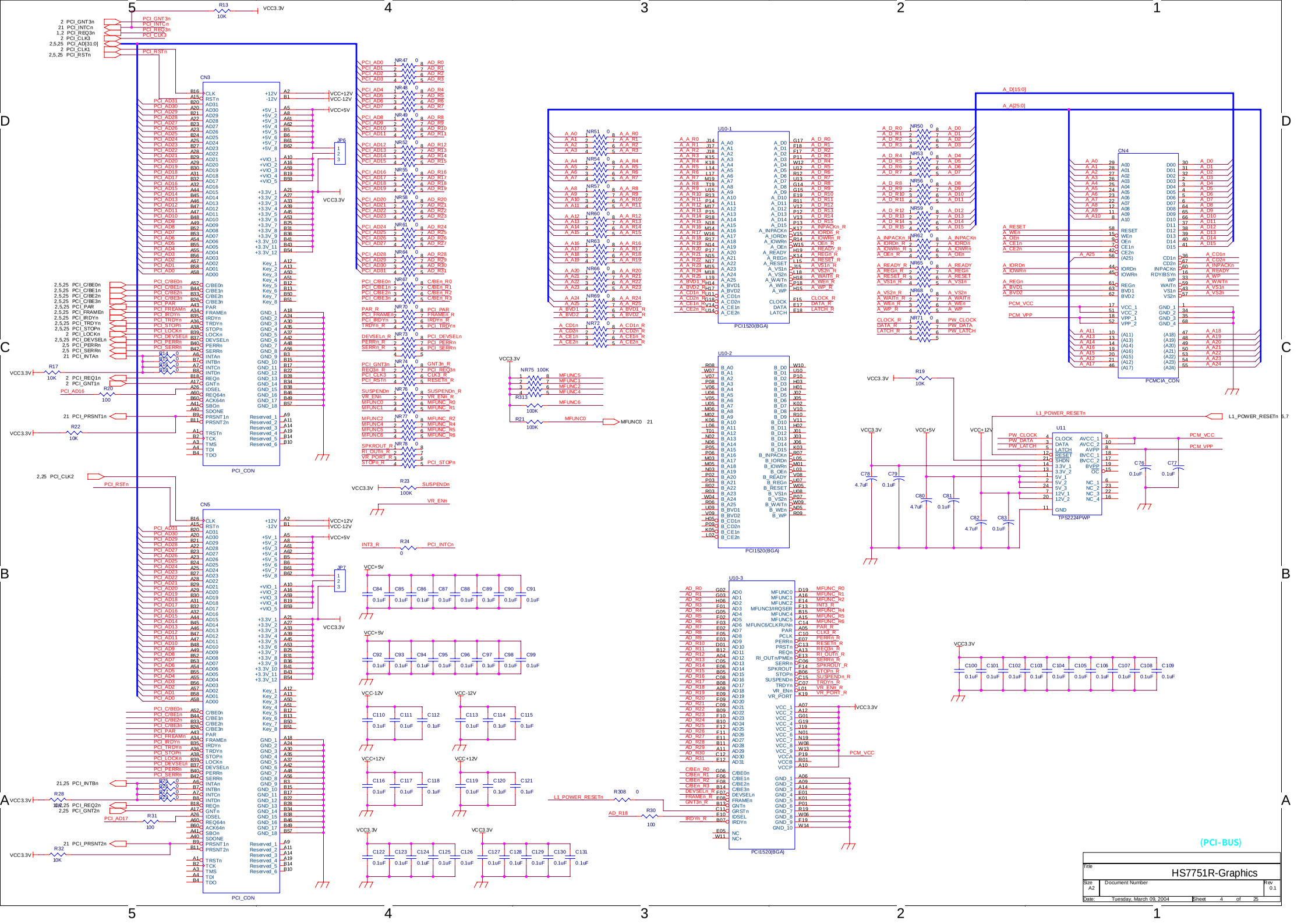
CN3
PCI_CON
CN5
PCI_CON
U10-1
PCI1520(BGA)
U10-2
PCI1520(BGA)
U10-3
PCI1520(BGA)
CN4
PCMCIA_CON
U11
TPS2224PWP
JP6
JP7
A_D[15:0]
A_A[25:0]
VCC3.3V
VCC+5V
VCC+12V
VCC-12V
PCI_AD0
PCI_AD1
PCI_AD2
PCI_AD3
PCI_AD4
PCI_AD5
PCI_AD6
PCI_AD7
PCI_AD8
PCI_AD9
PCI_AD10
PCI_AD11
PCI_AD12
PCI_AD13
PCI_AD14
PCI_AD15
PCI_AD16
PCI_AD17
PCI_AD18
PCI_AD19
PCI_AD20
PCI_AD21
PCI_AD22
PCI_AD23
PCI_AD24
PCI_AD25
PCI_AD26
PCI_AD27
PCI_AD28
PCI_AD29
PCI_AD30
PCI_AD31
PCI_C/BE0n
PCI_C/BE1n
PCI_C/BE2n
PCI_C/BE3n
PCI_PAR
PCI_FRAMEn
PCI_IRDYn
PCI_TRDYn
PCI_STOPn
PCI_LOCKn
PCI_DEVSELn
PCI_PERRn
PCI_SERRn
PCI_INTAn
PCI_REQ1n
PCI_GNT1n
PCI_AD16
PCI_PRSNT1n
PCI_PRSNT2n
PCI_CLK2
PCI_RSTn
PCI_GNT3n
PCI_INTCn
PCI_REQ3n
PCI_CLK3
PCI_INTBn
PCI_REQ2n
PCI_GNT2n
PCI_AD17
SUSPENDn
VR_ENn
INT3_R
PCI_INTCn
SUSPENDn_R
VR_ENn_R
PCI_STOPn
PCI_DEVSELn
PCI_PERRn
PCI_SERRn
GNT3n_R
MFUNC0
MFUNC1
MFUNC2
MFUNC3
MFUNC4
MFUNC5
MFUNC6
L1_POWER_RESETn
PCM_VCC
PCM_VPP
PW_CLOCK
PW_DATA
PW_LATCH
(PCI-BUS)
HS7751R-Graphics
Size A2
Document Number
Rev 0.1
Date: Tuesday, March 09, 2004
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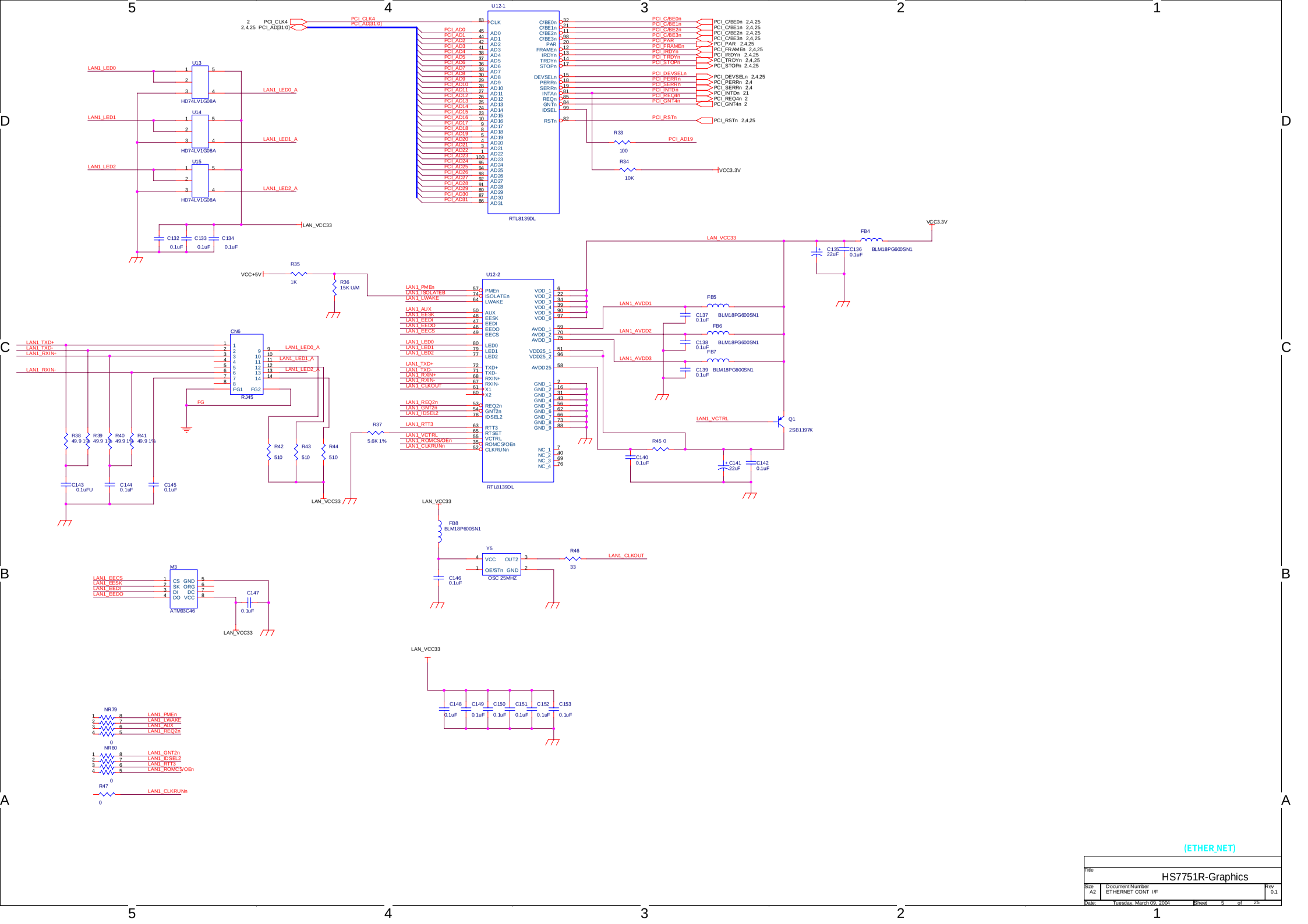
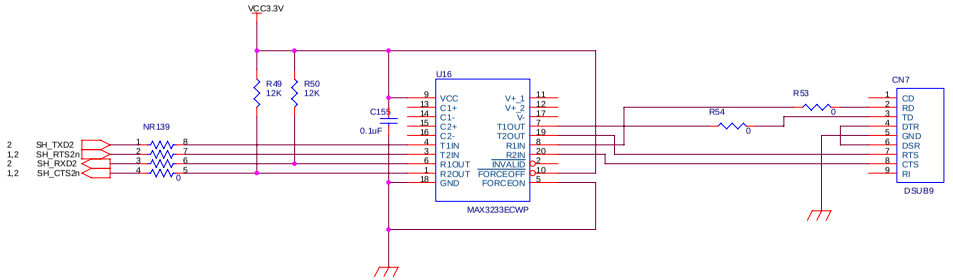
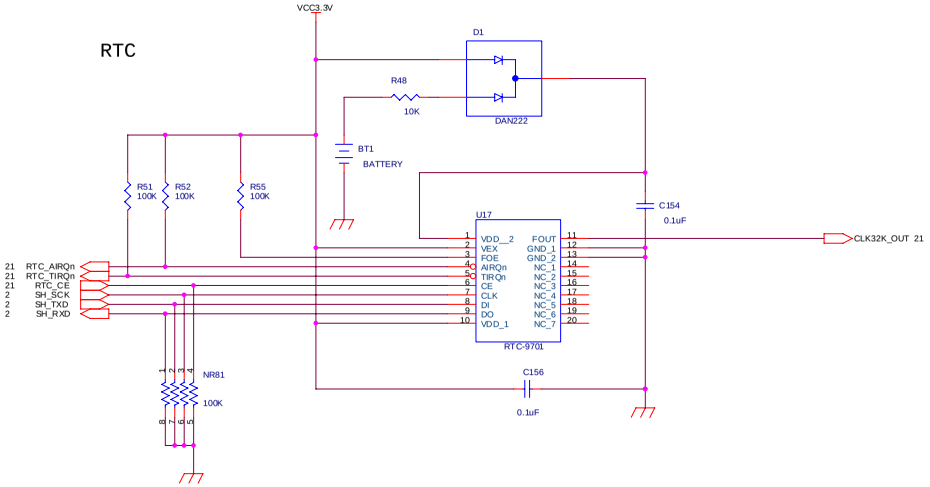

U12-1
RTL8139DL
U13
U14
U15
HD74LV1G08A
LAN_VCC33
U12-2
CN6
RJ45
M3
ATM93C46
Y5
OSC 25MHZ
Q1
2SB1197K
FB4
FB5
FB6
FB7
FB8
BLM18PG600SN1
VCC3.3V
VCC+5V
(ETHER_NET)
HS7751R-Graphics
Tuesday, March 09, 2004

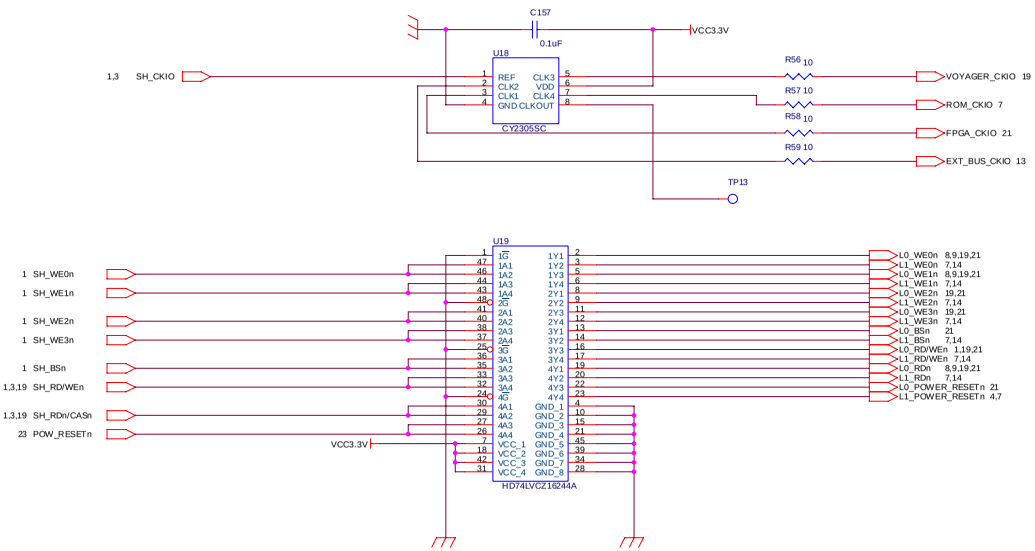
RS232C INF

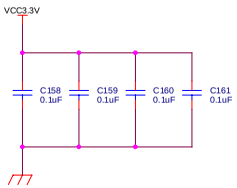


RTC



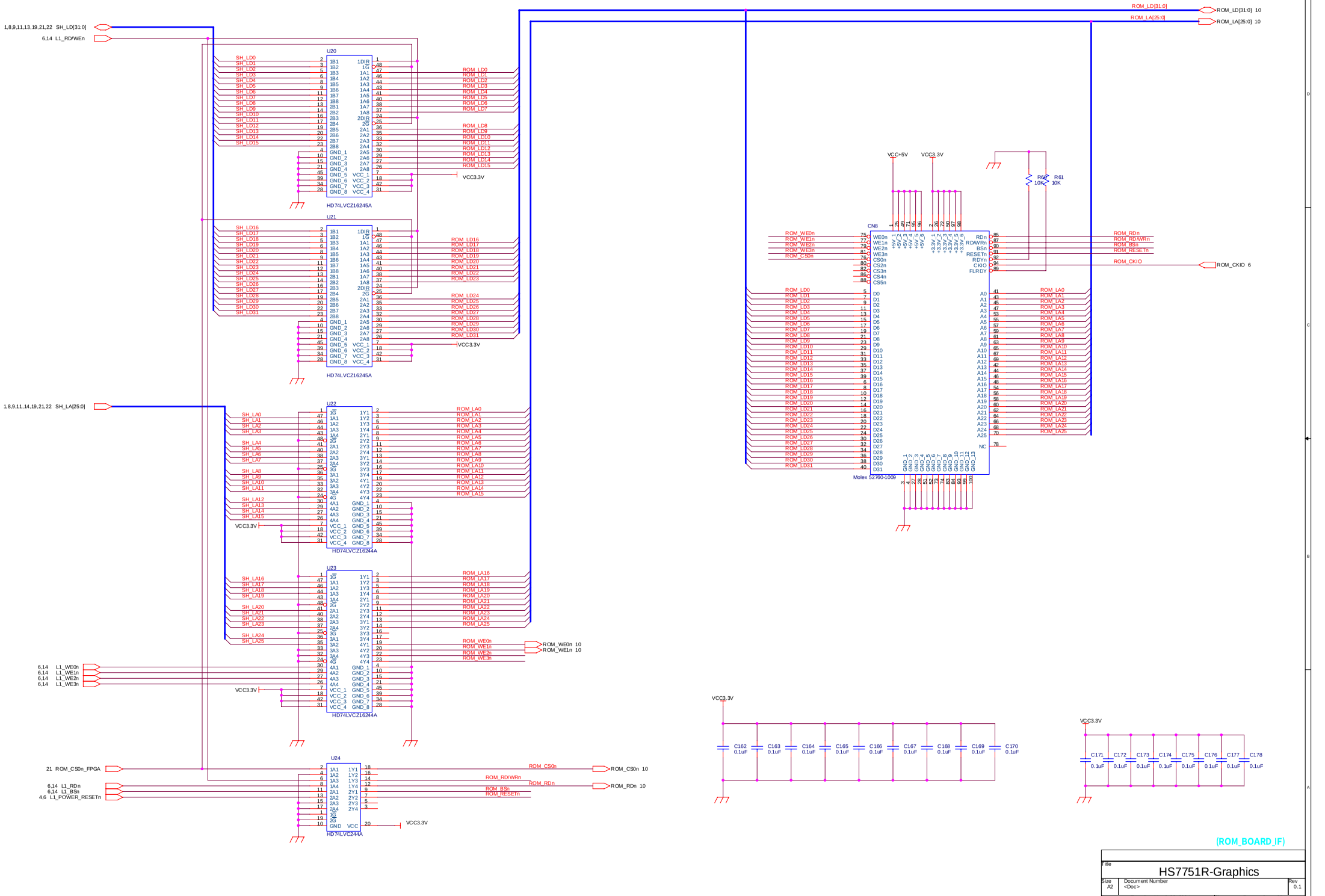
DISB INF





(RS232C/ROM-IF)

Title	HS7751R-Graphics	
Size A2	Document Number FROM_IF/RS232C_IF	Rev 0.1
Date: Tuesday, March 09, 2004	Sheet 6 of 25	


1,8,9,11,13,19,21,22 SH_LD[31:0]
6,14 L1_RD/WEn
U20
SH_LD0
SH_LD1
SH_LD2
SH_LD3
SH_LD4
SH_LD5
SH_LD6
SH_LD7
SH_LD8
SH_LD9
SH_LD10
SH_LD11
SH_LD12
SH_LD13
SH_LD14
SH_LD15
ROM_LD0
ROM_LD1
ROM_LD2
ROM_LD3
ROM_LD4
ROM_LD5
ROM_LD6
ROM_LD7
ROM_LD8
ROM_LD9
ROM_LD10
ROM_LD11
ROM_LD12
ROM_LD13
ROM_LD14
ROM_LD15
VCC3.3V
HD74LVCZ16245A
U21
SH_LD16
SH_LD17
SH_LD18
SH_LD19
SH_LD20
SH_LD21
SH_LD22
SH_LD23
SH_LD24
SH_LD25
SH_LD26
SH_LD27
SH_LD28
SH_LD29
SH_LD30
SH_LD31
ROM_LD16
ROM_LD17
ROM_LD18
ROM_LD19
ROM_LD20
ROM_LD21
ROM_LD22
ROM_LD23
ROM_LD24
ROM_LD25
ROM_LD26
ROM_LD27
ROM_LD28
ROM_LD29
ROM_LD30
ROM_LD31
VCC3.3V
HD74LVCZ16245A
1,8,9,11,14,19,21,22 SH_LA[25:0]
U22
SH_LA0
SH_LA1
SH_LA2
SH_LA3
SH_LA4
SH_LA5
SH_LA6
SH_LA7
SH_LA8
SH_LA9
SH_LA10
SH_LA11
SH_LA12
SH_LA13
SH_LA14
SH_LA15
ROM_LA0
ROM_LA1
ROM_LA2
ROM_LA3
ROM_LA4
ROM_LA5
ROM_LA6
ROM_LA7
ROM_LA8
ROM_LA9
ROM_LA10
ROM_LA11
ROM_LA12
ROM_LA13
ROM_LA14
ROM_LA15
VCC3.3V
HD74LVCZ16244A
U23
SH_LA16
SH_LA17
SH_LA18
SH_LA19
SH_LA20
SH_LA21
SH_LA22
SH_LA23
SH_LA24
SH_LA25
ROM_LA16
ROM_LA17
ROM_LA18
ROM_LA19
ROM_LA20
ROM_LA21
ROM_LA22
ROM_LA23
ROM_LA24
ROM_LA25
ROM_WE0n
ROM_WE1n
ROM_WE2n
ROM_WE3n
ROM_WE0n 10
ROM_WE1n 10
6,14 L1_WE0n
6,14 L1_WE1n
6,14 L1_WE2n
6,14 L1_WE3n
VCC3.3V
HD74LVCZ16244A
U24
21 ROM_CS0n_FPGA
6,14 L1_RDn
6,14 L1_BSn
4,6 L1_POWER_RESETn
ROM_CS0n
ROM_RD/WRn
ROM_RDn
ROM_BSn
ROM_RESETn
ROM_CS0n 10
ROM_RDn 10
VCC3.3V
HD74LVC244A
ROM_LD[31:0]
ROM_LA[25:0]
ROM_LD[31:0] 10
ROM_LA[25:0] 10
VCC+5V
VCC3.3V
R60 10K
R61 10K
CN8
ROM_WE0n
ROM_WE1n
ROM_WE2n
ROM_WE3n
ROM_CS0n
WE0n
WE1n
WE2n
WE3n
CS0n
CS2n
CS3n
CS4n
CS5n
RDn
RDWRn
BSn
RESETn
RDYn
CKIO
FLRDY
ROM_RDn
ROM_RD/WRn
ROM_BSn
ROM_RESETn
ROM_CKIO
ROM_CKIO 6
ROM_LD0
ROM_LD1
ROM_LD2
ROM_LD3
ROM_LD4
ROM_LD5
ROM_LD6
ROM_LD7
ROM_LD8
ROM_LD9
ROM_LD10
ROM_LD11
ROM_LD12
ROM_LD13
ROM_LD14
ROM_LD15
ROM_LD16
ROM_LD17
ROM_LD18
ROM_LD19
ROM_LD20
ROM_LD21
ROM_LD22
ROM_LD23
ROM_LD24
ROM_LD25
ROM_LD26
ROM_LD27
ROM_LD28
ROM_LD29
ROM_LD30
ROM_LD31
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
NC
ROM_LA0
ROM_LA1
ROM_LA2
ROM_LA3
ROM_LA4
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ROM_LA6
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ROM_LA10
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ROM_LA13
ROM_LA14
ROM_LA15
ROM_LA16
ROM_LA17
ROM_LA18
ROM_LA19
ROM_LA20
ROM_LA21
ROM_LA22
ROM_LA23
ROM_LA24
ROM_LA25
Molex 52760-1009
VCC3.3V
C162 0.1uF
C163 0.1uF
C164 0.1uF
C165 0.1uF
C166 0.1uF
C167 0.1uF
C168 0.1uF
C169 0.1uF
C170 0.1uF
VCC3.3V
C171 0.1uF
C172 0.1uF
C173 0.1uF
C174 0.1uF
C175 0.1uF
C176 0.1uF
C177 0.1uF
C178 0.1uF
(ROM_BOARD_IF)
Title
HS7751R-Graphics
Size A2
Document Number <Doc>
Rev 0.1
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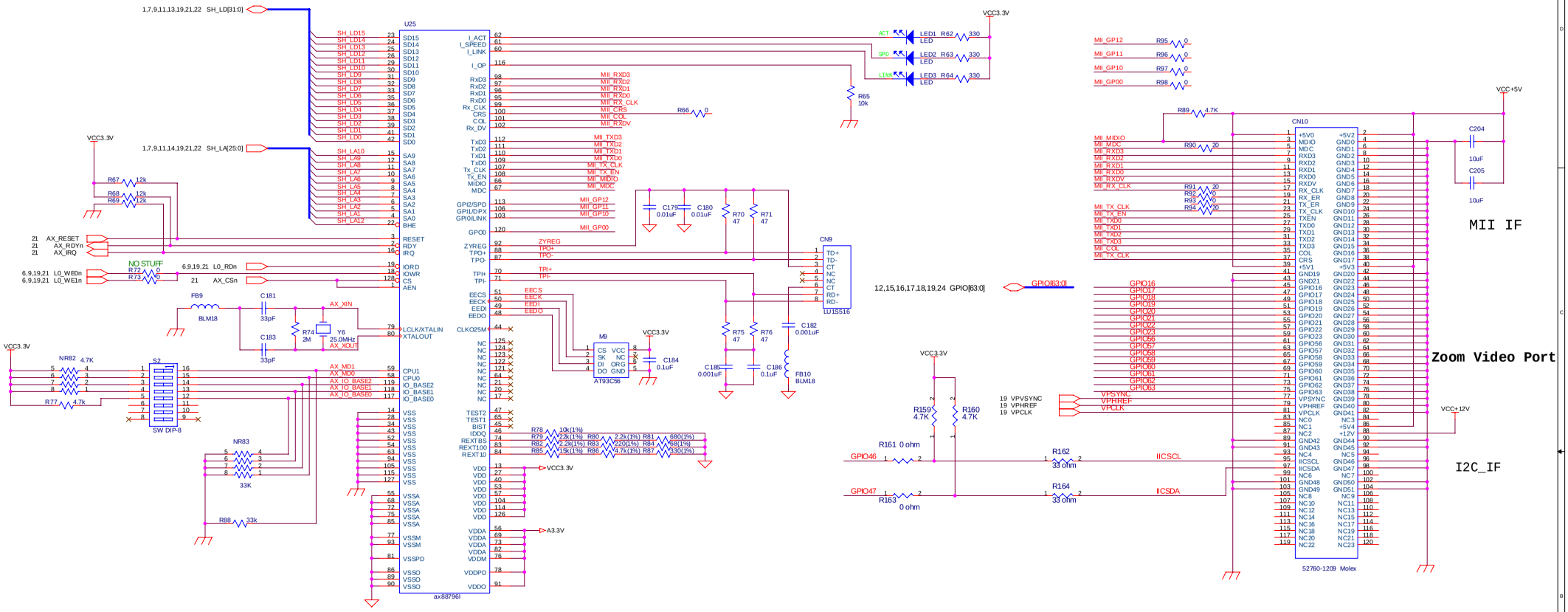
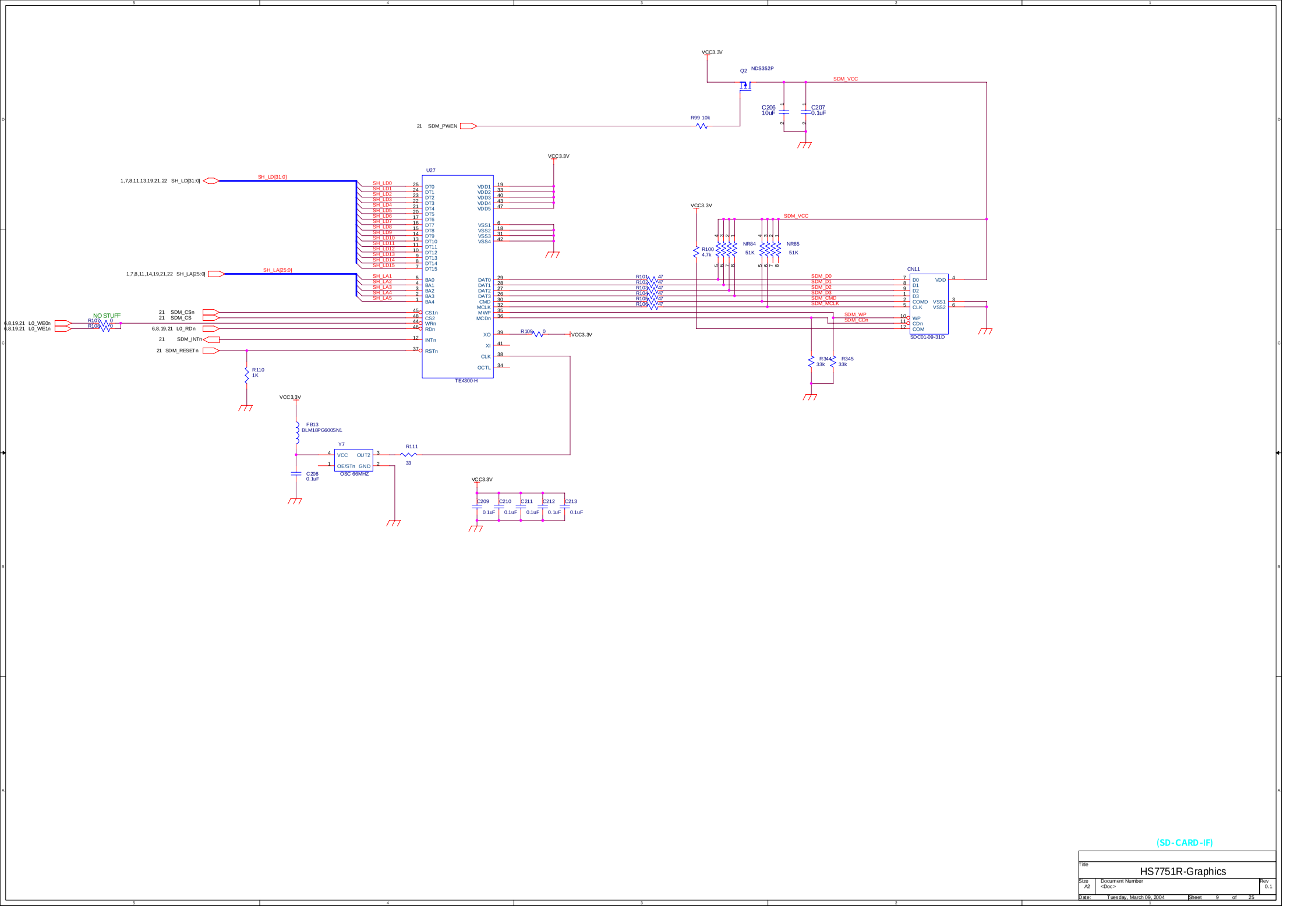
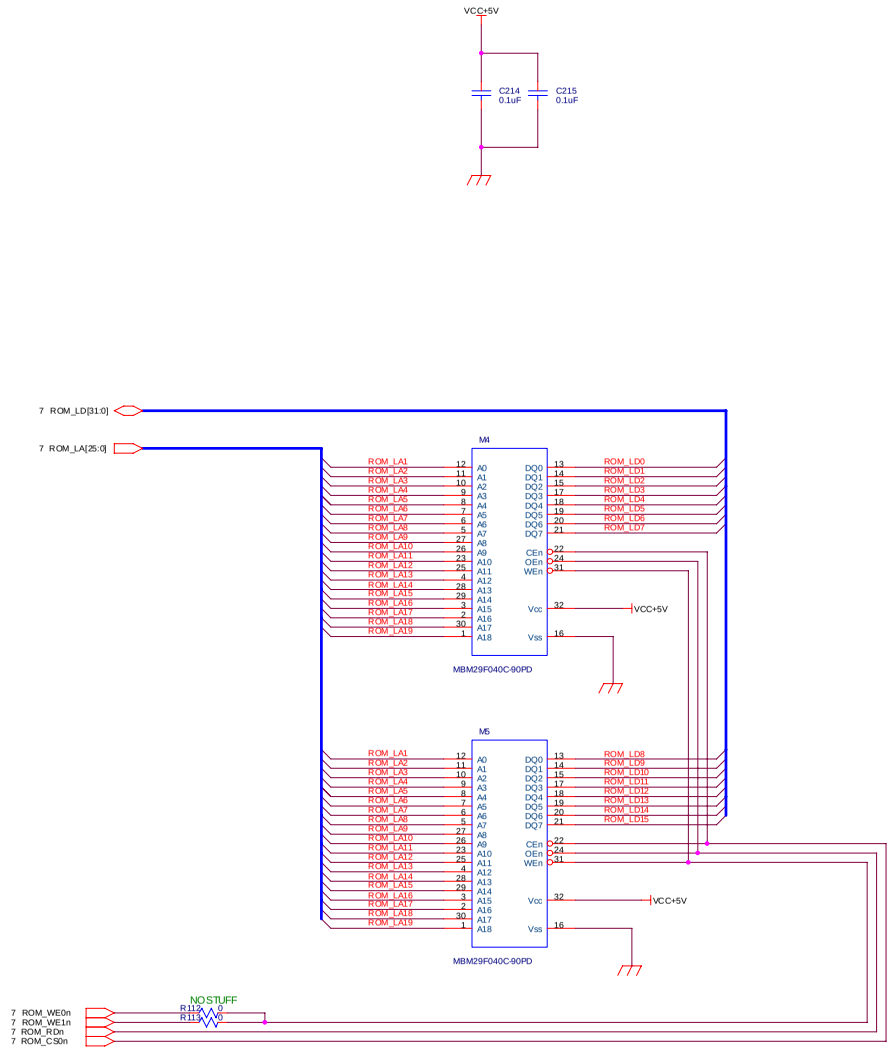


Title	HS7751R-Graphics		
Size A2	Document Number <Doc>		Rev 0.1
Date: Tuesday, March 09, 2004	Sheet 8	of 25	



(SD-CARD-IF)

Title	HS7751R-Graphics	
Size A2	Document Number <Doc>	Rev 0.1
Date: Tuesday, March 09, 2004	Sheet 9 of 25	



(FROM-IF)

Title	HS7751R-Graphics	
Size A2	Document Number FROM I/F	Rev 0.1
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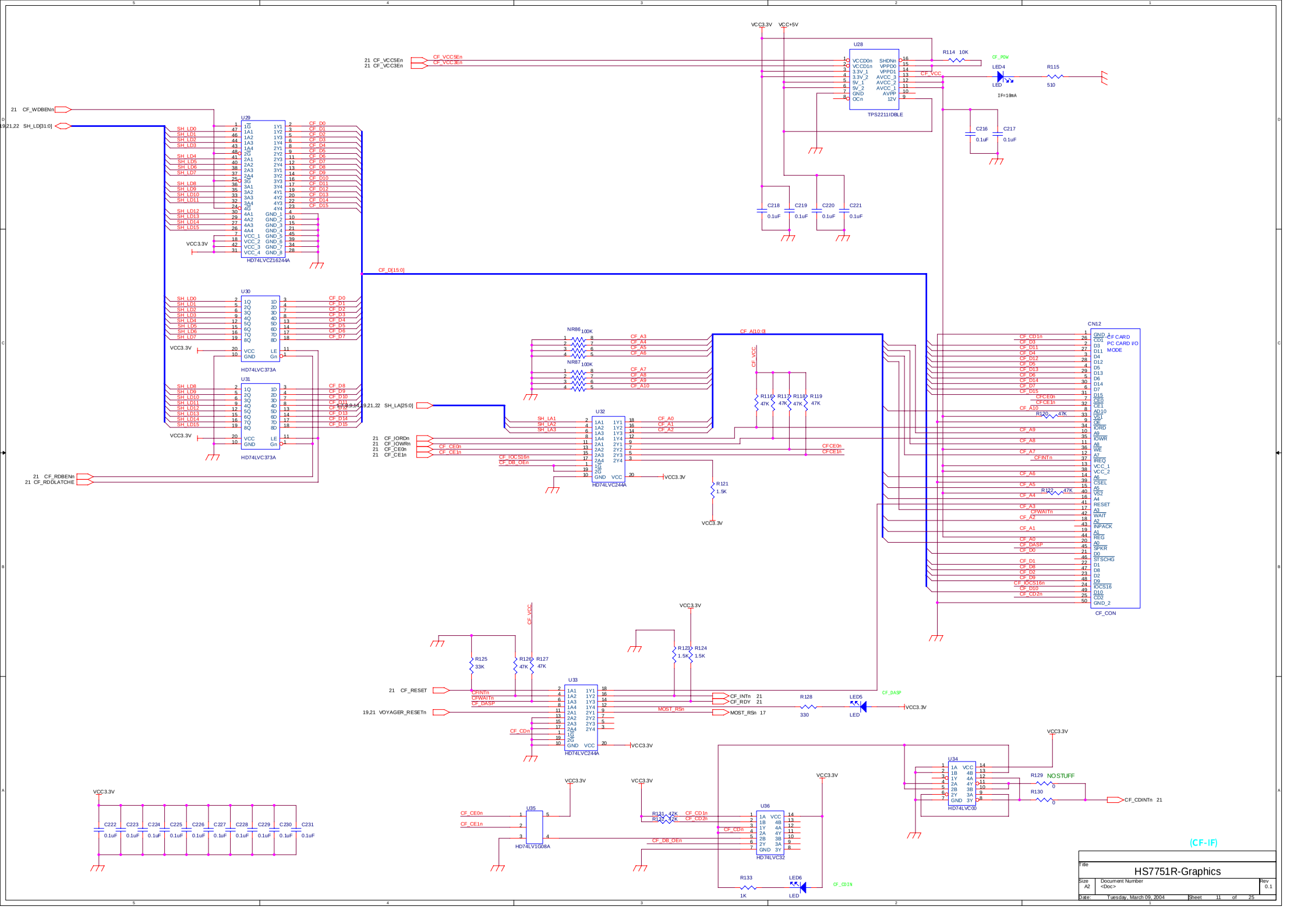
21 CF_VCC5En
21 CF_VCC3En
CF_VCC5En
CF_VCC3En
VCC3.3V
VCC+5V
U28
TPS2211IDBLE
R114 10K
CF_POW
LED4
LED
R115
510
IF=10mA
CF_VCC
C216 0.1uF
C217 0.1uF
C218 0.1uF
C219 0.1uF
C220 0.1uF
C221 0.1uF
21 CF_WDBENn
19,21,22 SH_LD[31:0]
U29
HD74LVCZ16244A
CF_D[15:0]
U30
HD74LVC373A
U31
HD74LVC373A
NR86 100K
NR87 100K
CF_A[10:0]
R116 47K
R117 47K
R118 47K
R119 47K
CF_VCC
CN12
CF CARD
PC CARD I/O
MODE
CF_CON
19,21,22 SH_LA[25:0]
U32
HD74LVC244A
21 CF_IORDn
21 CF_IOWRn
21 CF_CE0n
21 CF_CE1n
CF_IOCS16n
CF_DB_OEn
R121 1.5K
21 CF_RDBENn
21 CF_RDDLATCHE
R120 47K
R122 47K
U33
HD74LVC244A
21 CF_RESET
19,21 VOYAGER_RESETn
R125 33K
R126 47K
R127 47K
R123 1.5K
R124 1.5K
CFINTn
CFWAITn
CF_DASP
CF_CDn
MOST_RSn
CF_INTn 21
CF_RDY 21
MOST_RSn 17
R128 330
LED5
LED
CF_DASP
U34
HD74LVC00
R129 NOSTUFF
R130 0
CF_CDINTn 21
U35
HD74LV1G08A
U36
HD74LVC32
CF_CD1n
CF_CD2n
R131 47K
R132 47K
R133 1K
LED6
LED
CF_CDIN
C222 0.1uF
C223 0.1uF
C224 0.1uF
C225 0.1uF
C226 0.1uF
C227 0.1uF
C228 0.1uF
C229 0.1uF
C230 0.1uF
C231 0.1uF
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Title
HS7751R-Graphics
Size A2
Document Number <Doc>
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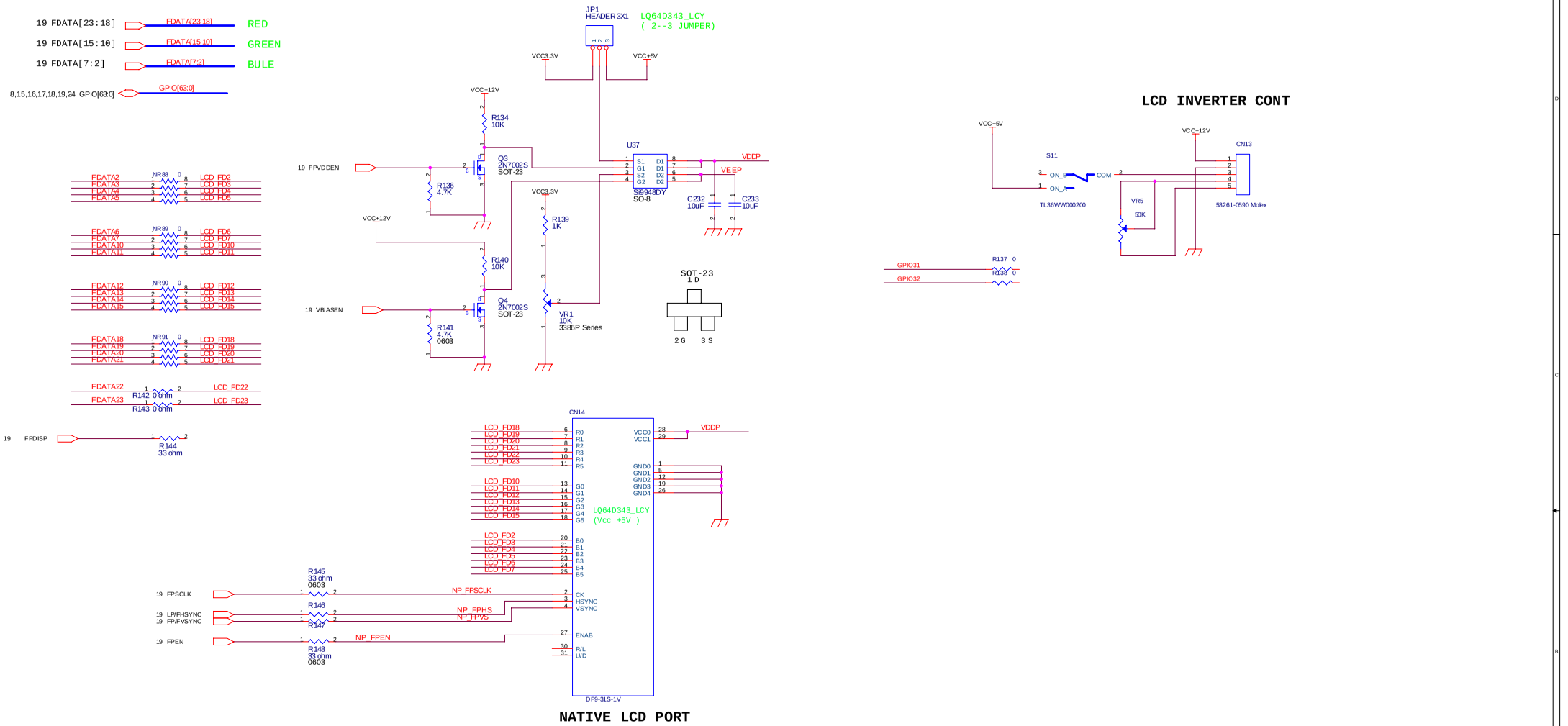

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Size A2	Document Number <Doc>		Rev 0.1
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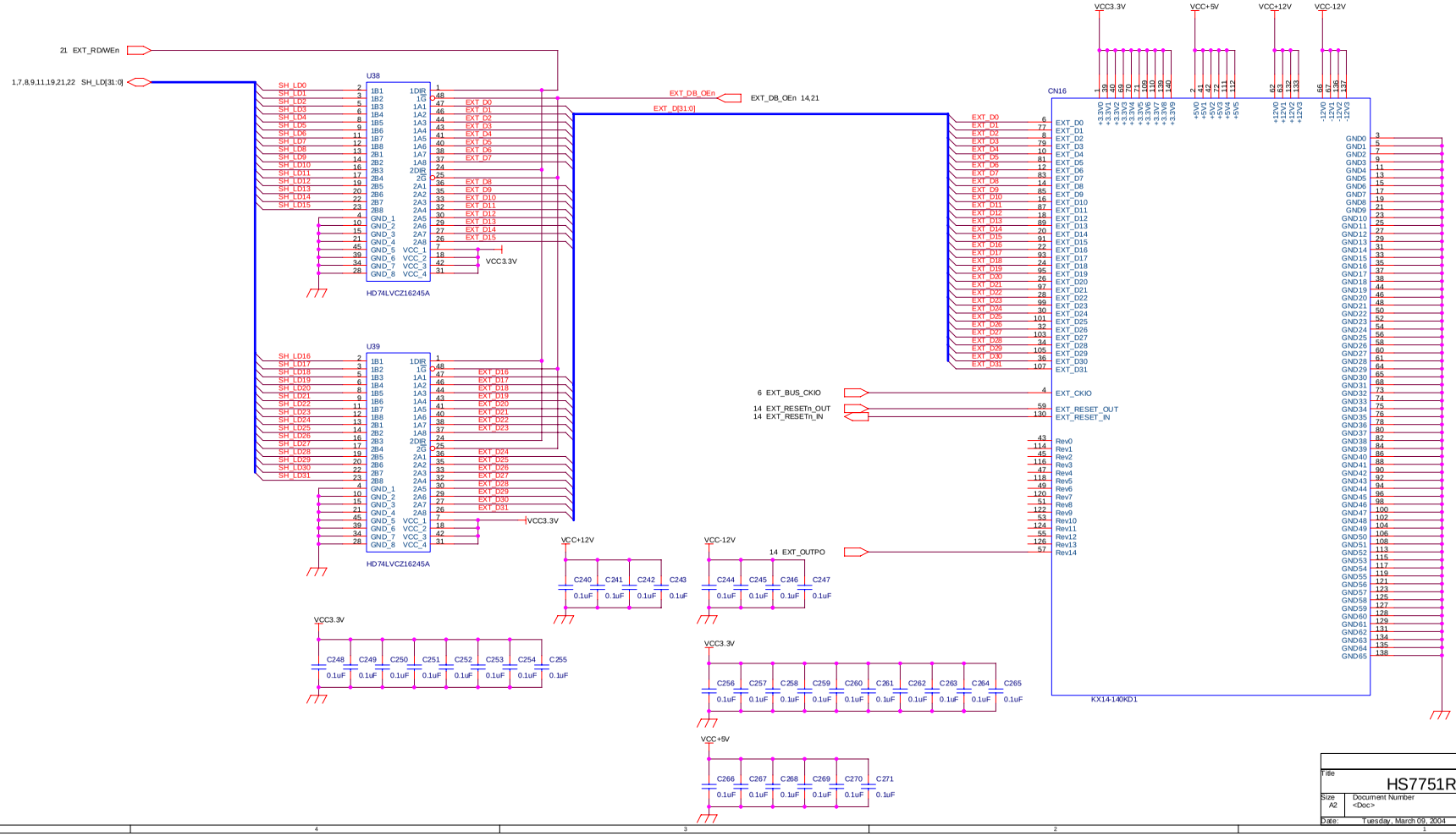
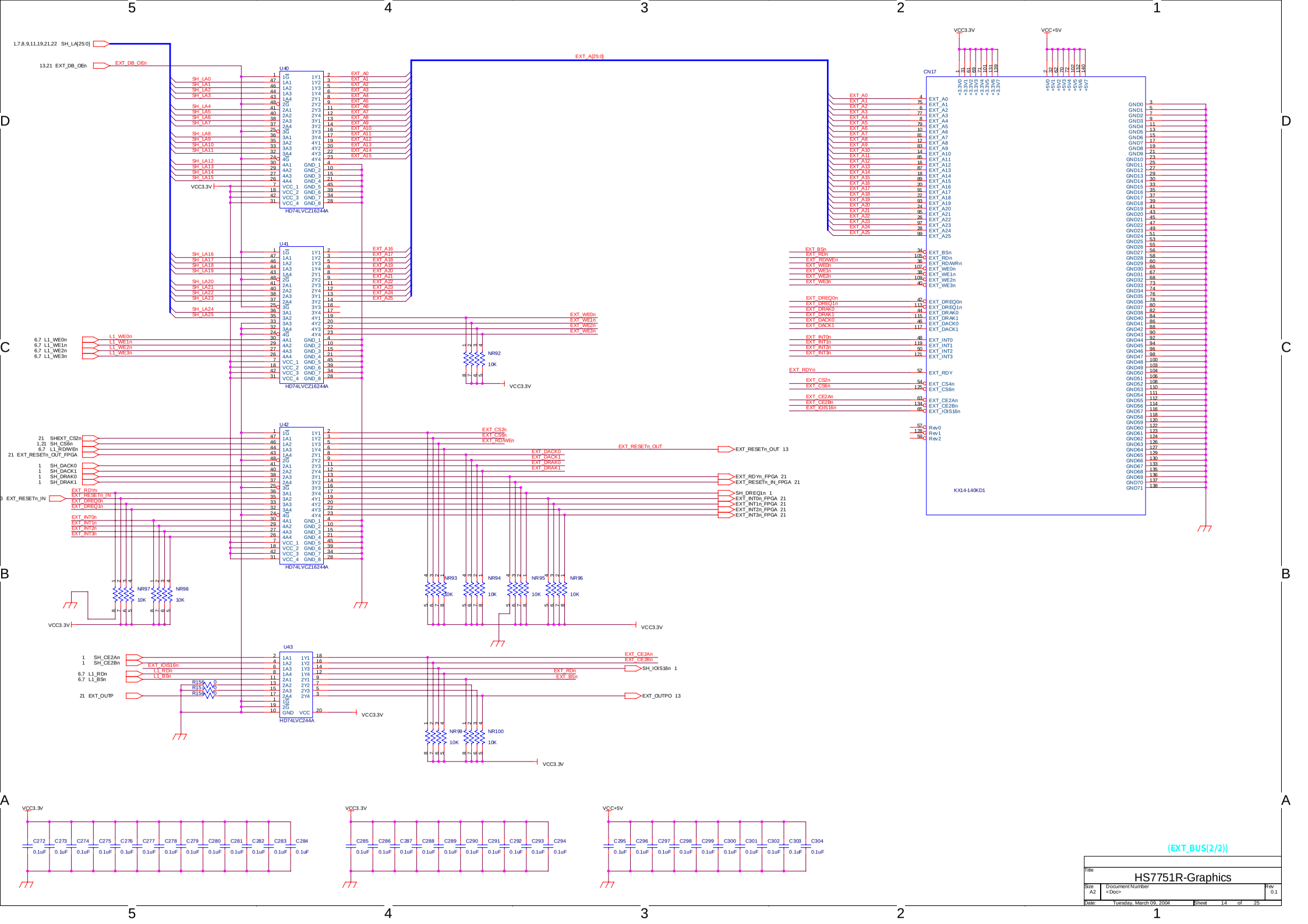


Title	HS7751R-Graphcis		
Size A2	Document Number <Doc>		Rev 0.1
Date: Tuesday, March 09, 2004	Sheet 13 of 25		


1,7,8,9,11,19,21,22 SH_LA[25:0]
13,21 EXT_DB_OEn
EXT_DB_OEn
EXT_A[25:0]
U40
U41
U42
U43
HD74LVCZ16244A
HD74LVC244A
VCC3.3V
VCC+5V
CN17
KX14-140KD1
NR92
NR93
NR94
NR95
NR96
NR97
NR98
NR99
NR100
10K
C272 C273 C274 C275 C276 C277 C278 C279 C280 C281 C282 C283 C284
C285 C286 C287 C288 C289 C290 C291 C292 C293 C294
C295 C296 C297 C298 C299 C300 C301 C302 C303 C304
0.1uF
(EXT_BUS(2/2))
HS7751R-Graphics
Size A2
Document Number <Doc>
Rev 0.1
Date: Tuesday, March 09, 2004
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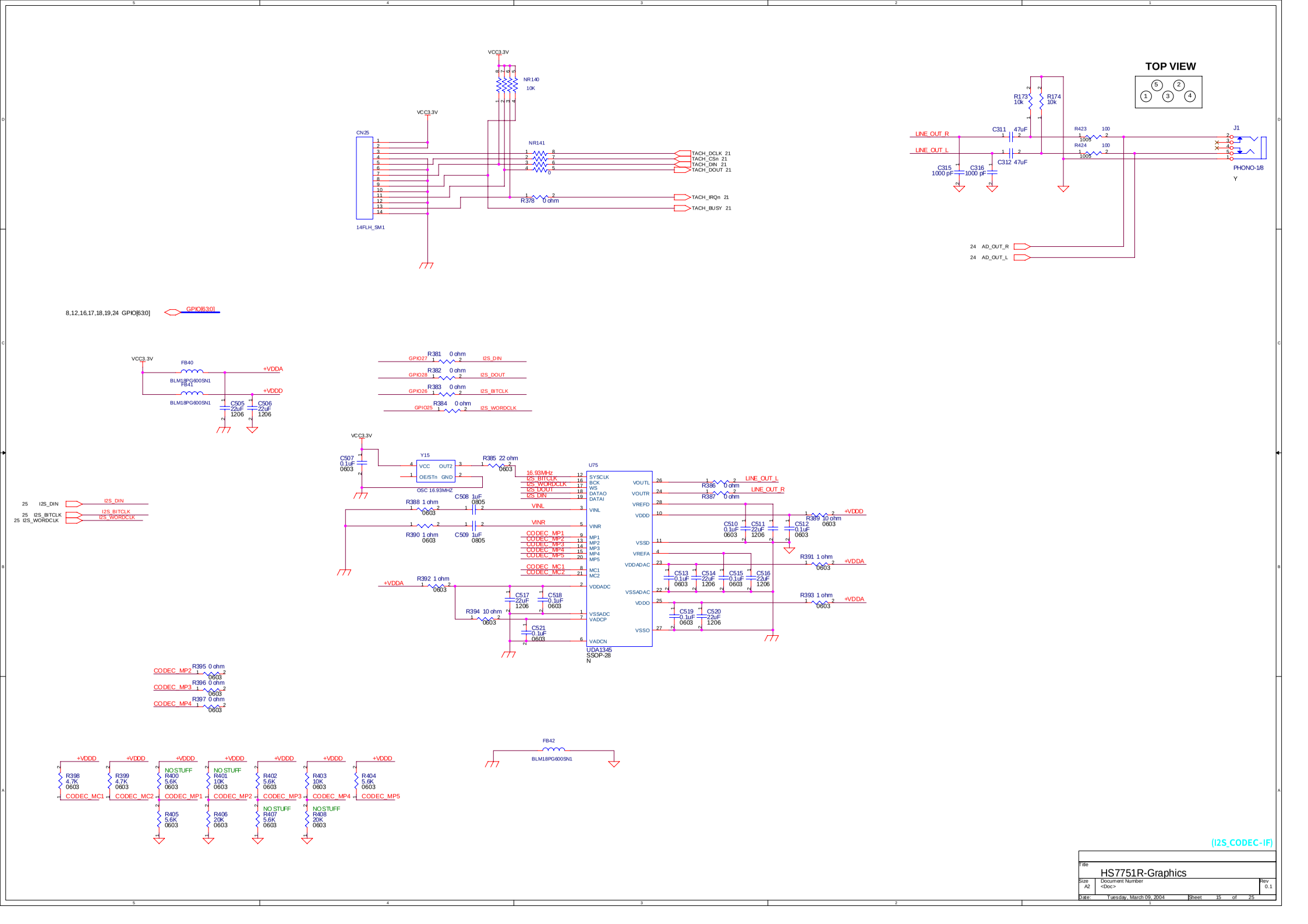
VCC3.3V
NR140
10K
CN25
14FLH_SM1
NR141
TACH_DCLK 21
TACH_CSn 21
TACH_DIN 21
TACH_DOUT 21
R378 0 ohm
TACH_IRQn 21
TACH_BUSY 21
TOP VIEW
R173 10k
R174 10k
LINE_OUT_R
LINE_OUT_L
C311 47uF
C312 47uF
C315 1000 pF
C316 1000 pF
R423 100
R424 100
J1
PHONO-1/8
24 AD_OUT_R
24 AD_OUT_L
8,12,16,17,18,19,24 GPIO[63:0]
GPIO[63:0]
FB40
FB41
BLM18PG600SN1
+VDDA
+VDDD
C505 22uF 1206
C506 22uF 1206
R381 0 ohm
R382 0 ohm
R383 0 ohm
R384 0 ohm
GPIO27
GPIO28
GPIO25
I2S_DIN
I2S_DOUT
I2S_BITCLK
I2S_WORDCLK
Y15
OSC 16.93MHZ
16.93MHz
R385 22 ohm
C507 0.1uF 0603
C508 1uF 0805
C509 1uF 0805
R388 1 ohm
R390 1 ohm
VINL
VINR
U75
UDA1345
SSOP-28
N
SYSCLK
BCK
WS
DATAO
DATAI
MP1
MP2
MP3
MP4
MP5
MC1
MC2
VDDADC
VSSADC
VADCP
VADCN
VOUTL
VOUTR
VREFD
VDDD
VSSD
VREFA
VSSADAC
VDDO
VSSO
R386 0 ohm
R387 0 ohm
R389 10 ohm
R391 1 ohm
R392 1 ohm
R393 1 ohm
R394 10 ohm
C510 0.1uF 0603
C511 22uF 1206
C512 0.1uF 0603
C513 0.1uF 0603
C514 22uF 1206
C515 0.1uF 0603
C516 22uF 1206
C517 22uF 1206
C518 0.1uF 0603
C519 0.1uF 0603
C520 22uF 1206
C521 0.1uF 0603
25 I2S_DIN
25 I2S_BITCLK
25 I2S_WORDCLK
CODEC_MP1
CODEC_MP2
CODEC_MP3
CODEC_MP4
CODEC_MP5
CODEC_MC1
CODEC_MC2
R395 0 ohm
R396 0 ohm
R397 0 ohm
R398 4.7K 0603
R399 4.7K 0603
R400 5.6K 0603
R401 10K 0603
R402 5.6K 0603
R403 10K 0603
R404 5.6K 0603
R405 5.6K 0603
R406 20K 0603
R407 5.6K 0603
R408 20K 0603
NO STUFF
FB42
BLM18PG600SN1
(I2S_CODEC-IF)
Title
HS7751R-Graphics
Size A2
Document Number <Doc>
Rev 0.1
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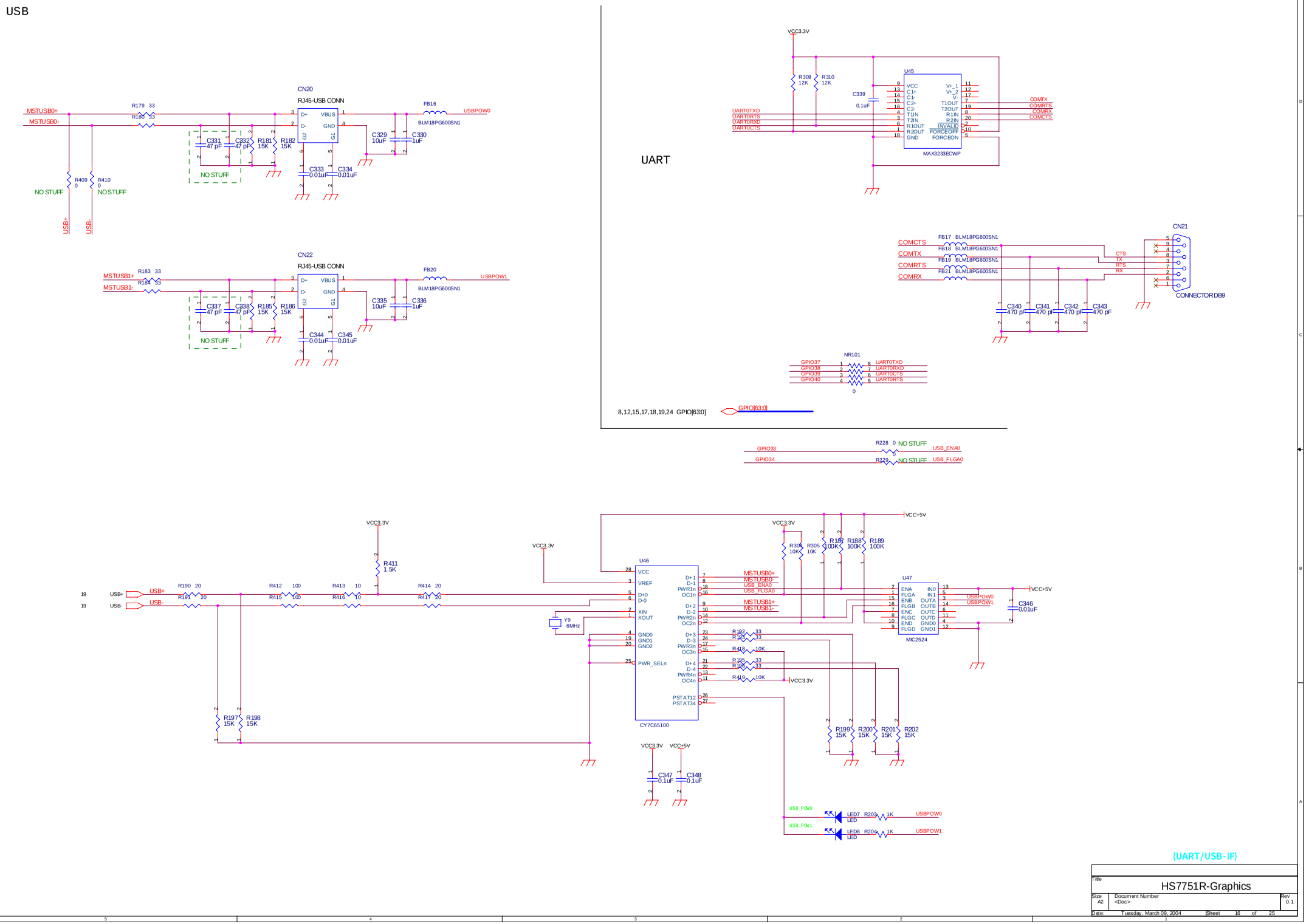
USB
CN20
RJ45-USB CONN
MSTUSB0+
MSTUSB0-
R179 33
R180 33
FB16
USBPOW0
BLM18PG600SN1
C329 10uF
C330 1uF
C331 47 pF
C332 47 pF
R181 15K
R182 15K
C333 0.01uF
C334 0.01uF
NO STUFF
R409 0
R410 0
USB+
USB-
CN22
RJ45-USB CONN
MSTUSB1+
MSTUSB1-
R183 33
R184 33
FB20
USBPOW1
BLM18PG600SN1
C335 10uF
C336 1uF
C337 47 pF
C338 47 pF
R185 15K
R186 15K
C344 0.01uF
C345 0.01uF
UART
VCC3.3V
R309 12K
R310 12K
C339 0.1uF
U45
MAX3233ECWP
UART0TXD
UART0RTS
UART0RXD
UART0CTS
COMTX
COMRTS
COMRX
COMCTS
CN21
CONNECTORDB9
FB17 BLM18PG600SN1
FB18 BLM18PG600SN1
FB19 BLM18PG600SN1
FB21 BLM18PG600SN1
CTS
TX
RTS
RX
C340 470 pF
C341 470 pF
C342 470 pF
C343 470 pF
NR101
GPIO37
GPIO38
GPIO39
GPIO40
8,12,15,17,18,19,24 GPIO[63:0]
GPIO33
GPIO34
R228 0 NO STUFF
R229 0 NO STUFF
USB_ENA0
USB_FLGA0
R411 1.5K
R190 20
R191 20
R412 100
R415 100
R413 10
R416 10
R414 20
R417 20
R197 15K
R198 15K
U46
CY7C65100
Y9 6MHz
PWR_SELn
PSTAT12
PSTAT34
R305 10K
R306 10K
R187 100K
R188 100K
R189 100K
U47
MIC2524
R192 33
R193 33
R418 10K
R195 33
R196 33
R419 10K
R199 15K
R200 15K
R201 15K
R202 15K
C346 0.01uF
C347 0.1uF
C348 0.1uF
USB_POW0
USB_POW1
LED7 R203 1K
LED8 R204 1K
LED
USBPOW0
USBPOW1
VCC+5V
(UART/USB-IF)
Title
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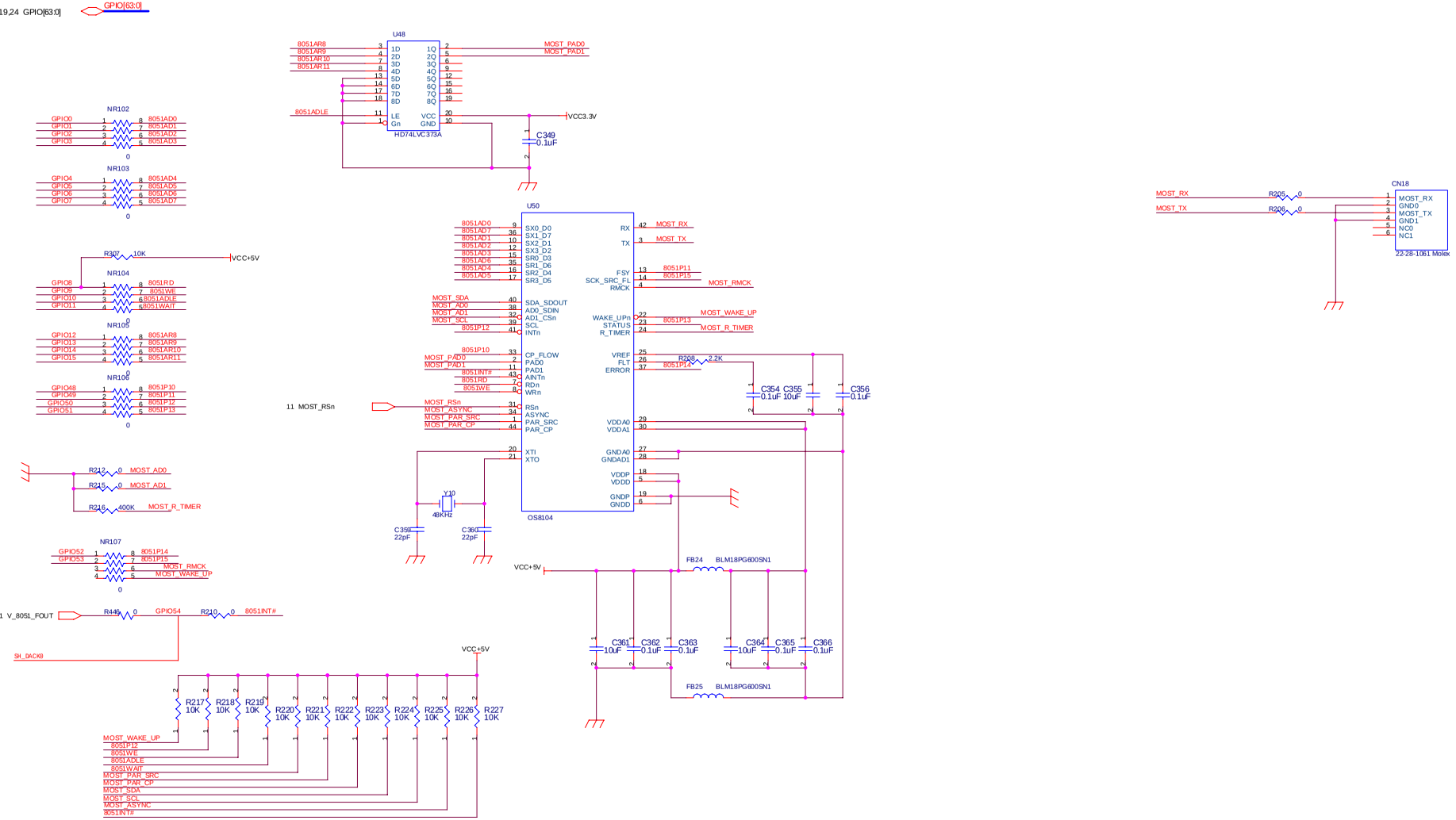
MOST

12,15,16,18,19,24 GPIO[63:0]

GPIO[63:0]



(MOST-IF)

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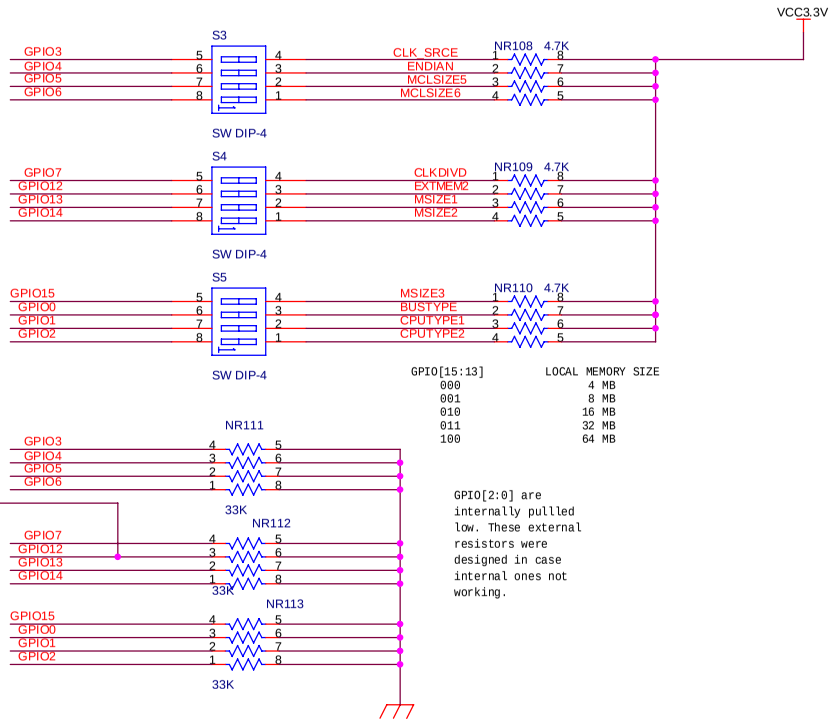
5,16,17,19,24 GPIO[63:0]

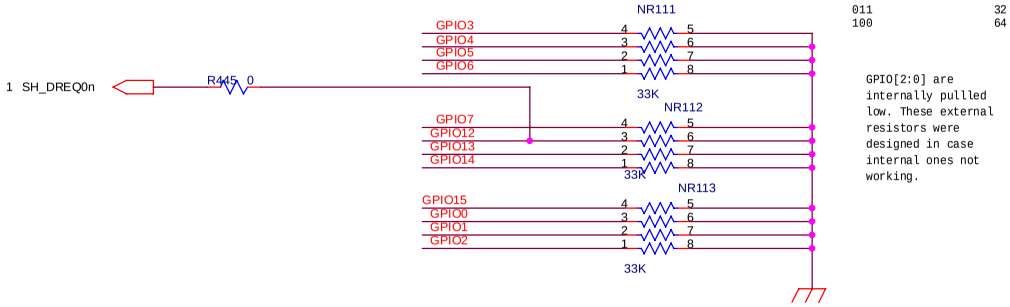
GPIO[63:0]

Configuration Pins

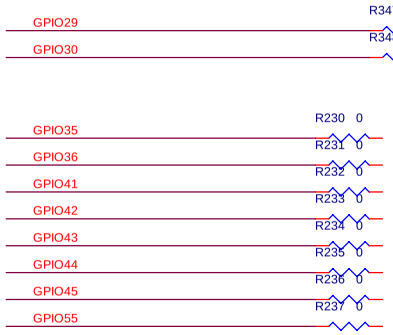
1 = SW IS SHUNTED; 0 = SW IS OPEN



GPIO[15:13]	LOCAL MEMORY SIZE
000	4 MB
001	8 MB
010	16 MB
011	32 MB
100	64 MB



GPIO[2:0] are internally pullled low. These external resistors were designed in case internal ones not working.



VOYAGER CONFIG)

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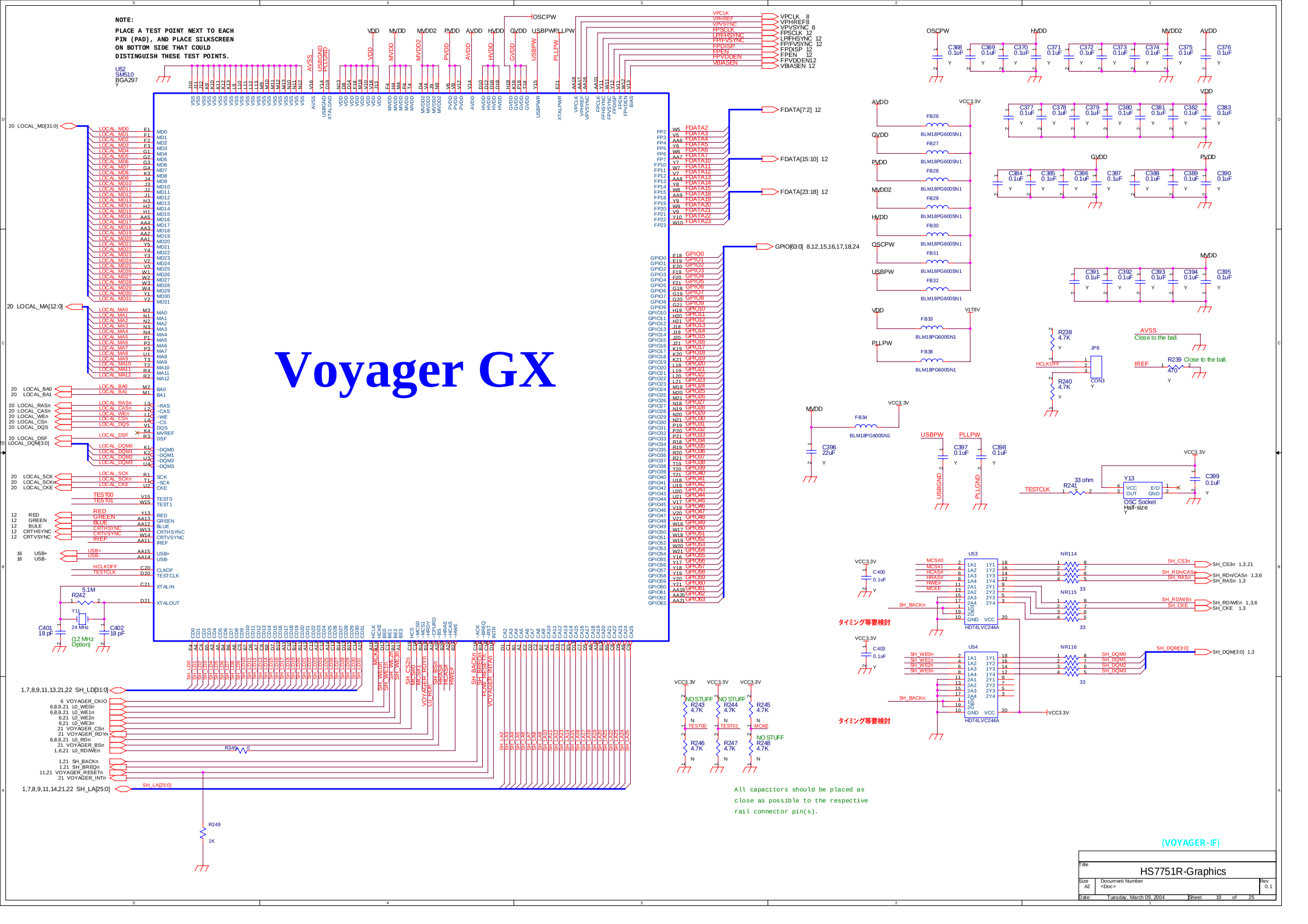
NOTE:
PLACE A TEST POINT NEXT TO EACH PIN (PAD), AND PLACE SILKSCREEN ON BOTTOM SIDE THAT COULD DISTINGUISH THESE TEST POINTS.
Voyager GX
U52
SM510
BGA297
OSCPW
VPCLK 8
VPHREF8
VPVSYNC 8
FPSCLK 12
LP/FHSYNC 12
FP/FVSYNC 12
FPDISP 12
FPEN 12
FPVDDEN12
VBIASEN 12
FDATA[7:2] 12
FDATA[15:10] 12
FDATA[23:18] 12
GPIO[63:0] 8,12,15,16,17,18,24
LOCAL_MD[31:0]
LOCAL_MA[12:0]
LOCAL_BA0
LOCAL_BA1
LOCAL_RASn
LOCAL_CASn
LOCAL_WEn
LOCAL_CSn
LOCAL_DQS
LOCAL_DSF
LOCAL_DQM[3:0]
LOCAL_SCK
LOCAL_SCKn
LOCAL_CKE
TEST00
TEST01
RED
GREEN
BLUE
CRTHSYNC
CRTVSYNC
IREF
USB+
USB-
HCLKOFF
TESTCLK
5.1M
R242
Y11
24 MHz
(12 MHz Option)
C401 18 pF
C402 18 pF
1,7,8,9,11,13,21,22 SH_LD[31:0]
6 VOYAGER_CKIO
6,8,9,21 L0_WE0n
6,8,9,21 L0_WE1n
6,21 L0_WE2n
6,21 L0_WE3n
21 VOYAGER_CSn
21 VOYAGER_RDYn
6,8,9,21 L0_RDn
21 VOYAGER_BSn
1,6,21 L0_RD/WEn
R349 0
1,21 SH_BACKn
1,21 SH_BREQn
11,21 VOYAGER_RESETn
21 VOYAGER_INTn
1,7,8,9,11,14,21,22 SH_LA[25:0]
R249 1K
NO STUFF
R243 4.7K
R244 4.7K
R245 4.7K
R246 4.7K
R247 4.7K
R248 4.7K
TEST00
TEST01
MCKE
All capacitors should be placed as close as possible to the respective rail connector pin(s).
C368 0.1uF
C369 0.1uF
C370 0.1uF
C371 0.1uF
C372 0.1uF
C373 0.1uF
C374 0.1uF
C375 0.1uF
C376 0.1uF
C377 0.1uF
C378 0.1uF
C379 0.1uF
C380 0.1uF
C381 0.1uF
C382 0.1uF
C383 0.1uF
C384 0.1uF
C385 0.1uF
C386 0.1uF
C387 0.1uF
C388 0.1uF
C389 0.1uF
C390 0.1uF
C391 0.1uF
C392 0.1uF
C393 0.1uF
C394 0.1uF
C395 0.1uF
FB26 BLM18PG600SN1
FB27 BLM18PG600SN1
FB28 BLM18PG600SN1
FB29 BLM18PG600SN1
FB30 BLM18PG600SN1
FB31 BLM18PG600SN1
FB32 BLM18PG600SN1
FB33 BLM18PG600SN1
FB34 BLM18PG600SN1
FB38 BLM18PG600SN1
VCC3.3V
V1T8V
R238 4.7K
R240 4.7K
JP8
CON3
HCLKOFF
AVSS Close to the ball.
IREF
R239 Close to the ball. 470
C396 22uF
C397 0.1uF
C398 0.1uF
C399 0.1uF
R241 33 ohm
Y13
OSC Socket Half-size
C400 0.1uF
C403 0.1uF
U53
U54
HD74LVC244A
NR114
NR115
NR116
33
SH_CS3n 1,3,21
SH_RD#/CASn 1,3,6
SH_RAS#n
SH_RASn 1,3
SH_RD/WEn 1,3,6
SH_CKE 1,3
SH_DQM[3:0] 1,3
SH_BACKn
SH_WE0n
SH_WE1n
SH_WE2n
SH_WE3n
SH_DQM0
SH_DQM1
SH_DQM2
SH_DQM3
タイミング等要検討
タイミング等要検討
(VOYAGER-IF)
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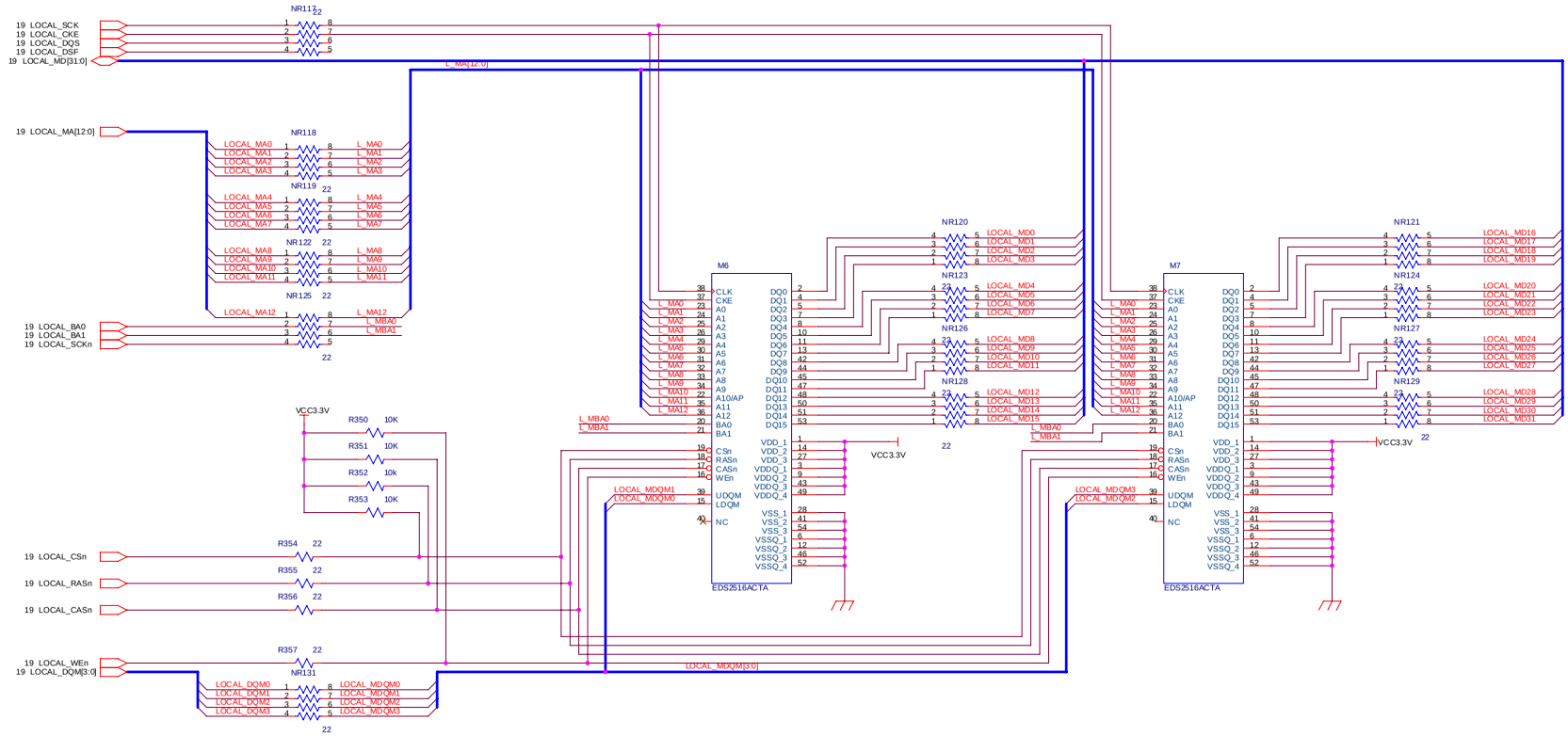

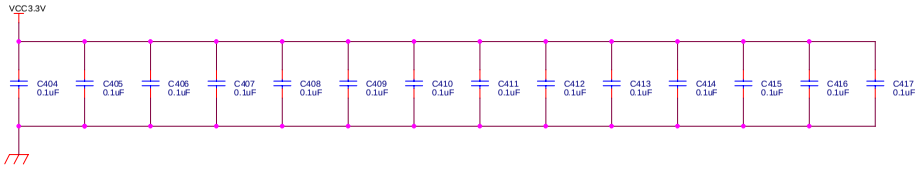

(LOCAL_SDRAM)

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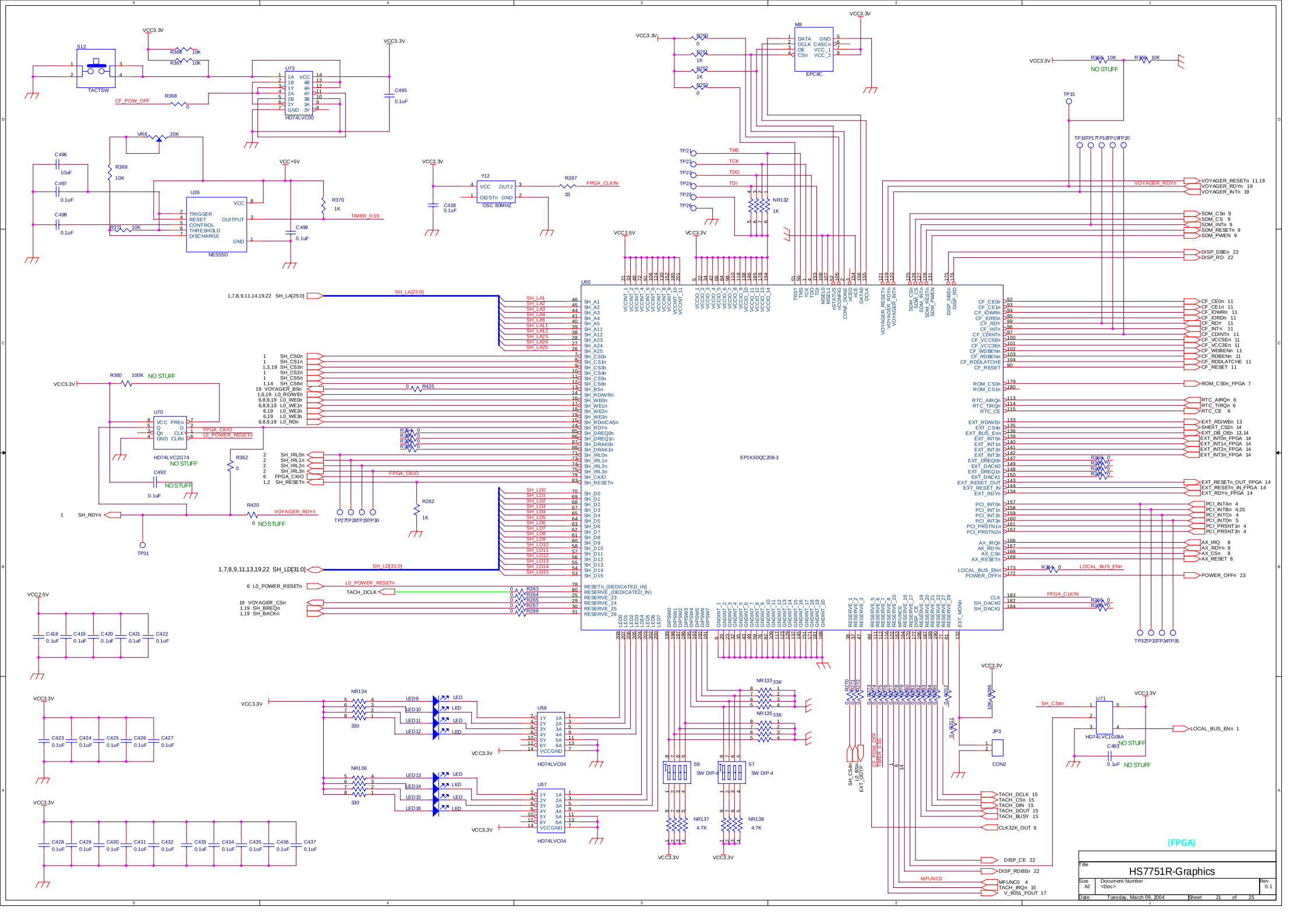
S12
TACTSW
CF_POW_OFF
U73
HD74LVC00
C495
0.1uF
VR6
20K
C496
10uF
R369
10K
C497
0.1uF
C498
0.1uF
U26
NE555D
TRIGGER
RESET
CONTROL
THRESHOLD
DISCHARGE
OUTPUT
VCC
GND
R370
1K
TIMER_0.5S
C499
0.1uF
VCC+5V
Y12
OSC 80MHZ
C438
0.1uF
R287
33
FPGA_CLKIN
M8
EPC8C
R250
R251
1K
R252
1K
R253
TMS
TCK
TDO
TDI
NR132
1K
U55
EP1K50QC208-3
SH_LA[25:0]
SH_LD[31:0]
SH_CS0n
SH_CS1n
SH_CS3n
SH_CS2n
SH_CS5n
SH_CS6n
VOYAGER_BSn
L0_RDWEn
L0_WE0n
L0_WE1n
L0_WE2n
L0_WE3n
L0_RDn
R425
FPGA_CKIO
L0_POWER_RESETn
SH_IRL0n
SH_IRL1n
SH_IRL2n
SH_IRL3n
SH_CKIO
SH_RESETn
R262
1K
TP27TP28TP29TP30
SH_RDYn
TP31
R420
VOYAGER_RDYn
NO STUFF
U70
HD74LVC2G74
R362
0
C492
0.1uF
R360
100K
R363
10K
TP15
TP16TP17TP18TP19TP20
VOYAGER_RESETn 11,19
VOYAGER_RDYn 19
VOYAGER_INTn 19
SDM_CSn 9
SDM_CS 9
SDM_INTn 9
SDM_RESETn 9
SDM_PWEN 9
DISP_DBEn 22
DISP_RD 22
CF_CE0n 11
CF_CE1n 11
CF_IOWRn 11
CF_IORDn 11
CF_RDY 11
CF_INTn 11
CF_CDINTn 11
CF_VCC5En 11
CF_VCC3En 11
CF_WDBENn 11
CF_RDBENn 11
CF_RDDLATCHE 11
CF_RESET 11
ROM_CS0n_FPGA 7
RTC_AIRQn 6
RTC_TIRQn 6
RTC_CE 6
EXT_RD/WEn 13
SHEXT_CS2n 14
EXT_DB_OEn 13,14
EXT_INT0n_FPGA 14
EXT_INT1n_FPGA 14
EXT_INT2n_FPGA 14
EXT_INT3n_FPGA 14
EXT_RESETn_OUT_FPGA 14
EXT_RESETn_IN_FPGA 14
EXT_RDYn_FPGA 14
PCI_INTAn 4
PCI_INTBn 4,25
PCI_INTCn 4
PCI_INTDn 5
PCI_PRSNT1n 4
PCI_PRSNT2n 4
AX_IRQ 8
AX_RDYn 8
AX_CSn 8
AX_RESET 8
LOCAL_BUS_ENn
POWER_OFFn 23
TP32TP33TP34TP35
TACH_DCLK
TACH_CSn
TACH_DIN
TACH_DOUT
TACH_BUSY
CLK32K_OUT 6
DISP_CE 22
DISP_RDBEn 22
MFUNC0
TACH_IRQn 15
V_8051_FOUT 17
U56
U57
HD74LVC04
NR134
NR136
330
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
NR133 33K
NR135 33K
S6
S7
SW DIP-4
NR137 4.7K
NR138 4.7K
R270
R271
R272
R273
R274
R275
R276
R277
R278
R279
R280
R281
R282
R283
R284
R285
R286
10K
R288
0
R311
JP3
CON2
SH_CS4n
EXT_OUTPP
CF_POW_OFF
TIMER_0.5S
U71
HD74LVC1G08A
C493
NO STUFF
LOCAL_BUS_ENn 1
C418
C419
C420
C421
C422
C423
C424
C425
C426
C427
C428
C429
C430
C431
C432
C433
C434
C435
C436
C437
0.1uF
(FPGA)
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21 DISP_DBEn
U58
SH_LD0
SH_LD1
SH_LD2
SH_LD3
SH_LD4
SH_LD5
SH_LD6
SH_LD7
7,8,9,11,13,19,21 SH_LD[31:0]
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4 1G 2G GND VCC
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
DISP_D0
DISP_D1
DISP_D2
DISP_D3
DISP_D4
DISP_D5
DISP_D6
DISP_D7
VCC3.3V
HD74LVC244A
DISP_D[7:0]
CN19
DISP_CE_O
DISP_RD_O
DISP_RS_O
D7 D6 D5 D4 D3 D2 D1 D0 E R/W RS VLC GND 5V
U72
1Q 2Q 3Q 4Q 5Q 6Q 7Q 8Q
1D 2D 3D 4D 5D 6D 7D 8D
VCC GND
LE Gn
HD74LVC373A
VCC+5V
VR4
5K
C439
C440
0.1uF
21 DISP_RDBEn
R365
0
U61
21 DISP_CE
21 DISP_RD
SH_LA0
SH_LA1
NO STUFF
R289
R290
1,7,8,9,11,14,19,21 SH_LA[25:0]
SH_LA[25:0]
R288
VCC3.3V
C441
C442
C494
(DISP)
Title
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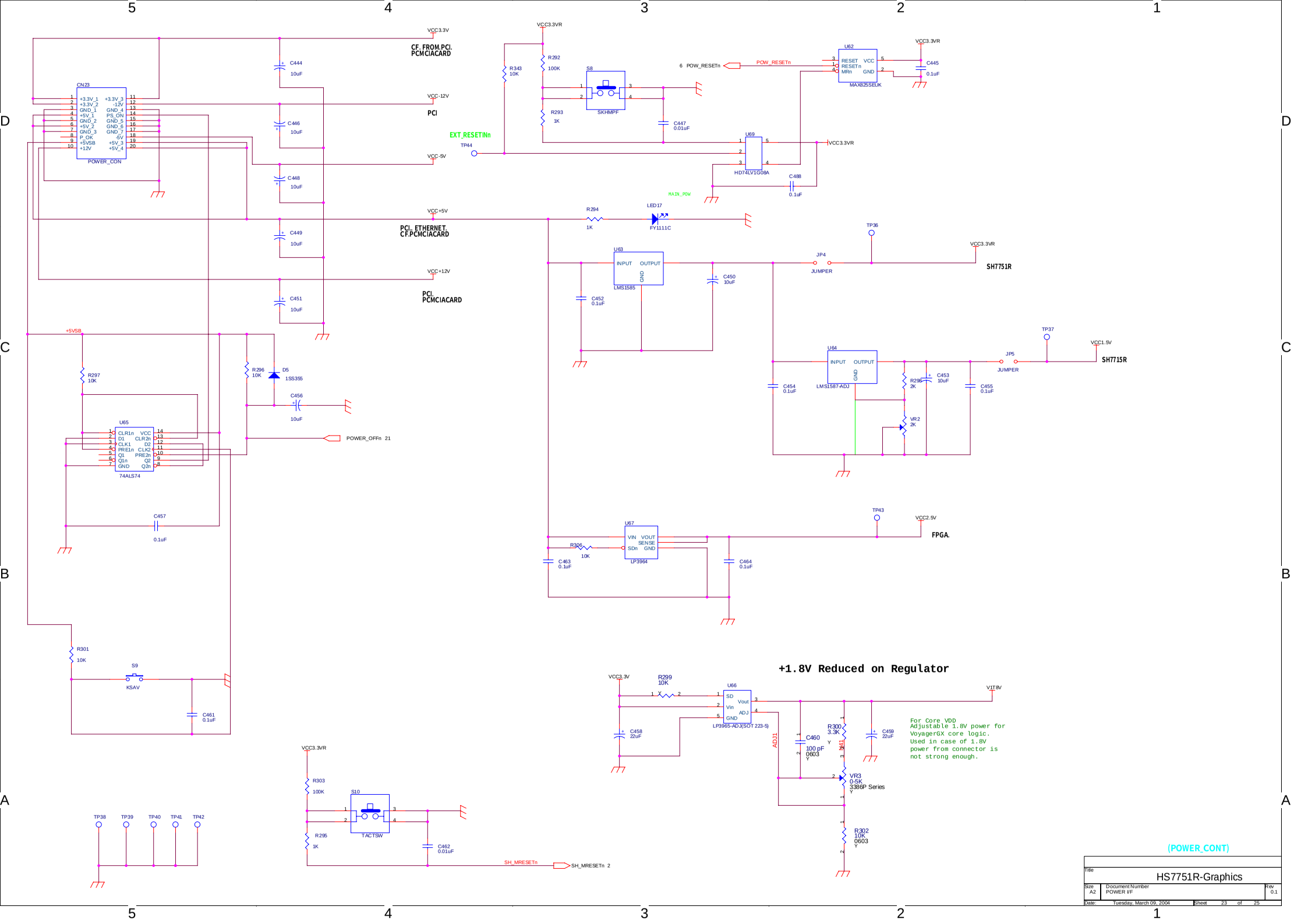
CF. FROM PCI. PCMCIACARD
PCI
PCI. ETHERNET. CF.PCMCIACARD
PCI. PCMCIACARD
CN23
POWER_CON
VCC3.3V
VCC-12V
VCC-5V
VCC+5V
VCC+12V
C444 10uF
C446 10uF
C448 10uF
C449 10uF
C451 10uF
EXT_RESETINn
TP44
R343 10K
R292 100K
R293 1K
S8
SKHMPF
C447 0.01uF
6 POW_RESETn
POW_RESETn
U62
MAX825SEUK
C445 0.1uF
U69
HD74LV1G08A
C488 0.1uF
MAIN_POW
R294 1K
LED17
FY1111C
U63
LM1585
C452 0.1uF
C450 10uF
JP4
JUMPER
TP36
SH7751R
U64
LM1587-ADJ
C454 0.1uF
C455 0.1uF
R298 2K
C453 10uF
VR2 2K
JP5
JUMPER
TP37
VCC1.5V
SH7715R
+5VSB
R297 10K
R296 10K
D5 1SS355
C456 10uF
POWER_OFFn 21
U65
74ALS74
C457 0.1uF
U67
LP3964
R306 10K
C463 0.1uF
C464 0.1uF
TP43
VCC2.5V
FPGA.
R301 10K
S9
KSAV
C461 0.1uF
+1.8V Reduced on Regulator
VCC3.3V
R299 10K
U66
LP3965-ADJ(SOT 223-5)
C458 22uF
C460 100 pF 0603
R300 3.3K
VR3 0-5K 3386P Series
R302 10K 0603
C459 22uF
V1T8V
ADJ1
For Core VDD
Adjustable 1.8V power for
VoyagerGX core logic.
Used in case of 1.8V
power from connector is
not strong enough.
VCC3.3VR
R303 100K
S10
TACTSW
R295 1K
C462 0.01uF
SH_MRESETn
SH_MRESETn 2
TP38
TP39
TP40
TP41
TP42
(POWER_CONT)
Title
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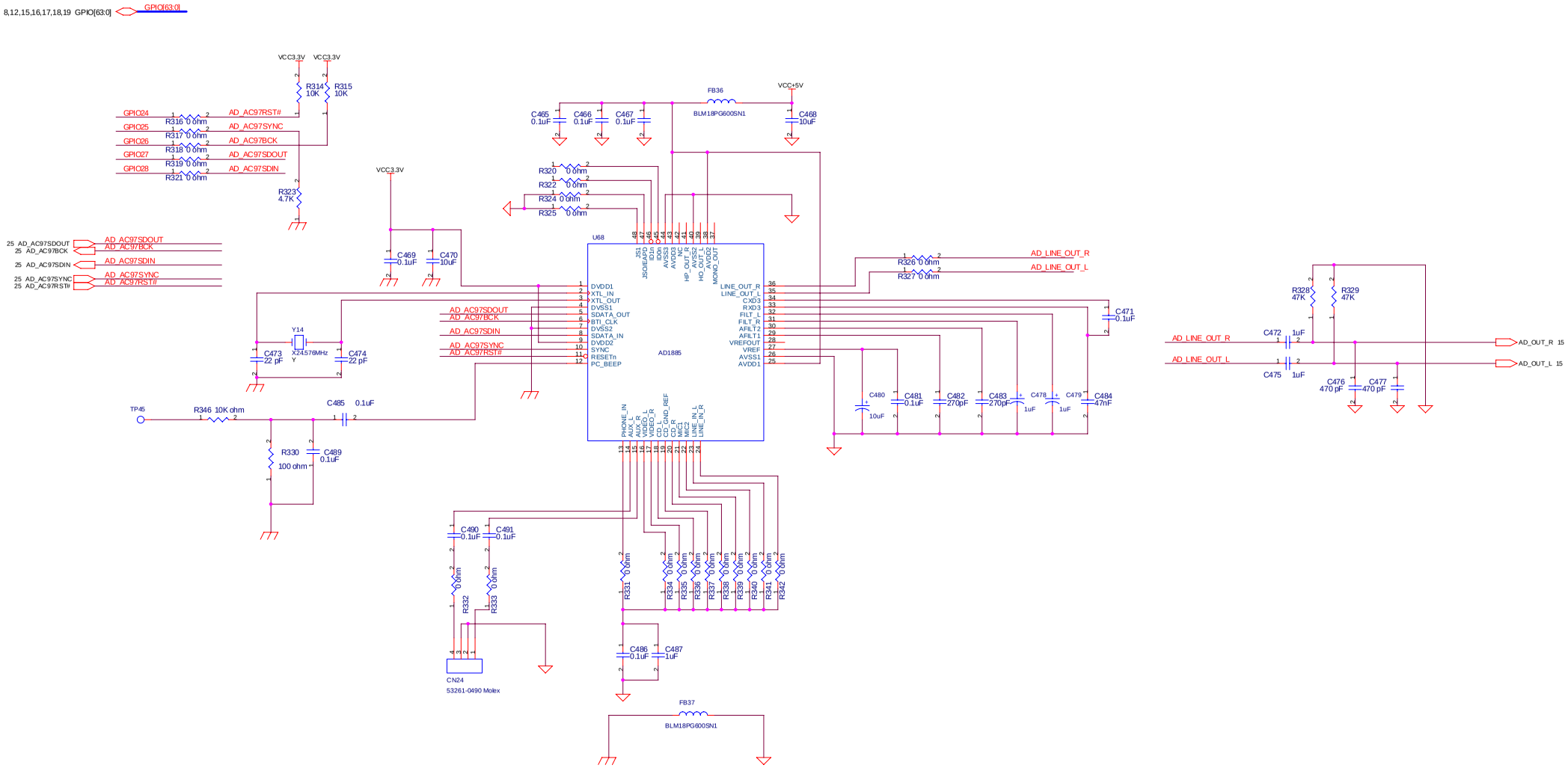

(AC97-IF)

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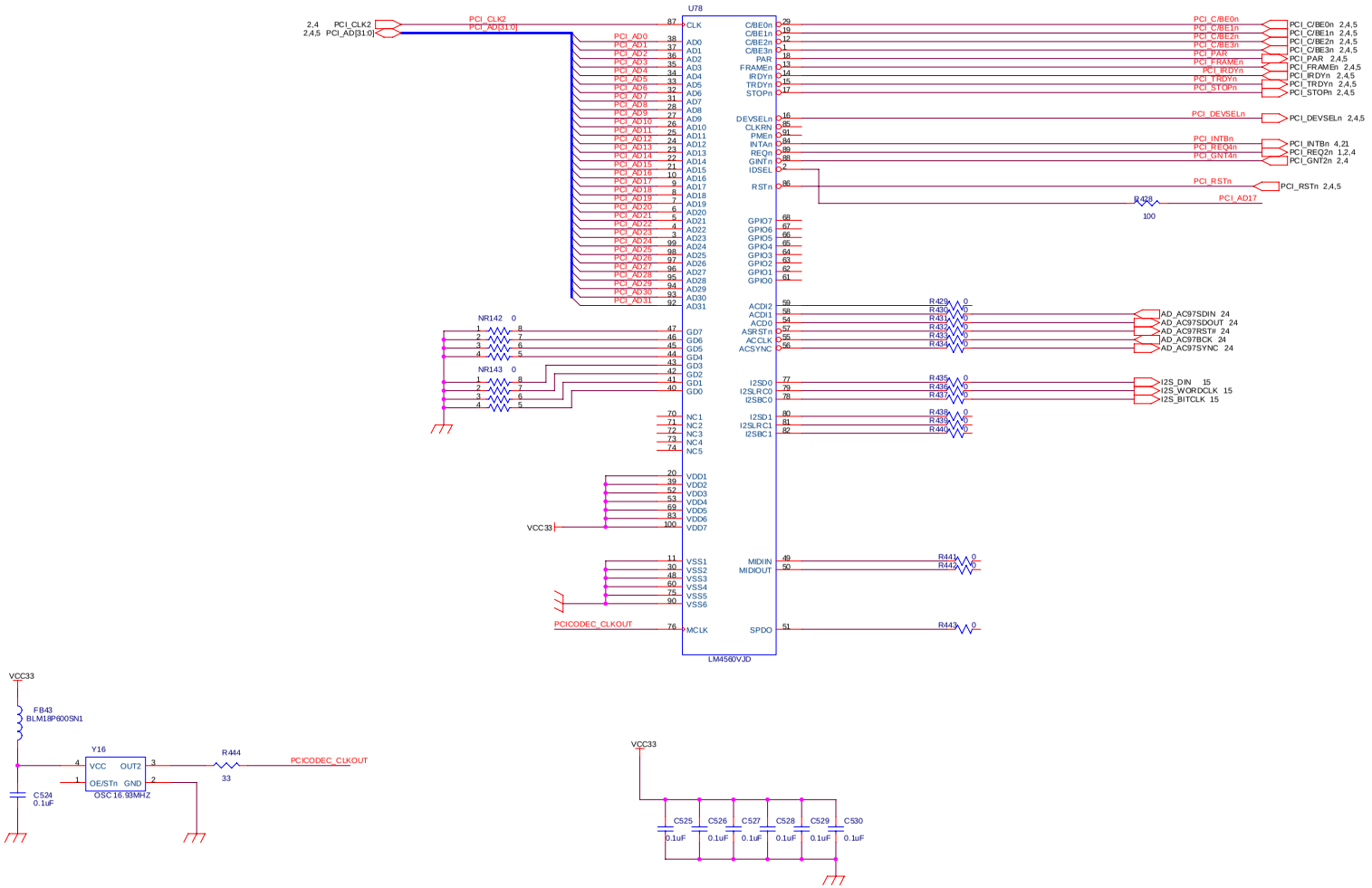
U78
LM4560VJD
PCI_CLK2
PCI_AD[31:0]
2,4 PCI_CLK2
2,4,5 PCI_AD[31:0]
CLK
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
AD9
AD10
AD11
AD12
AD13
AD14
AD15
AD16
AD17
AD18
AD19
AD20
AD21
AD22
AD23
AD24
AD25
AD26
AD27
AD28
AD29
AD30
AD31
C/BE0n
C/BE1n
C/BE2n
C/BE3n
PAR
FRAMEn
IRDYn
TRDYn
STOPn
DEVSELn
CLKRN
PMEn
INTAn
REQn
GINTn
IDSEL
RSTn
GPIO7
GPIO6
GPIO5
GPIO4
GPIO3
GPIO2
GPIO1
GPIO0
ACDI2
ACDI1
ACDI0
ASRSTn
ACCLK
ACSYNC
I2SDO
I2SLRC0
I2SBC0
I2SDI
I2SLRC1
I2SBC1
NC1
NC2
NC3
NC4
NC5
VDD1
VDD2
VDD3
VDD4
VDD5
VDD6
VDD7
VSS1
VSS2
VSS3
VSS4
VSS5
VSS6
MCLK
MIDIIN
MIDIOUT
SPDO
PCI_C/BE0n
PCI_C/BE1n
PCI_C/BE2n
PCI_C/BE3n
PCI_PAR
PCI_FRAMEn
PCI_IRDYn
PCI_TRDYn
PCI_STOPn
PCI_DEVSELn
PCI_INTBn
PCI_REQ0n
PCI_GNT4n
PCI_RSTn
PCI_AD17
PCI_C/BE0n 2,4,5
PCI_C/BE1n 2,4,5
PCI_C/BE2n 2,4,5
PCI_C/BE3n 2,4,5
PCI_PAR 2,4,5
PCI_FRAMEn 2,4,5
PCI_IRDYn 2,4,5
PCI_TRDYn 2,4,5
PCI_STOPn 2,4,5
PCI_DEVSELn 2,4,5
PCI_INTBn 4,21
PCI_REQ0n 1,2,4
PCI_GNT4n 2,4
PCI_RSTn 2,4,5
R428
100
NR142 0
NR143 0
GD7
GD6
GD5
GD4
GD3
GD2
GD1
GD0
R429 0
R430 0
R431 0
R432 0
R433 0
R434 0
AD_AC97SDIN 24
AD_AC97SDOUT 24
AD_AC97RST# 24
AD_AC97BCK 24
AD_AC97SYNC 24
R435 0
R436 0
R437 0
I2S_DIN 15
I2S_WORDCLK 15
I2S_BITCLK 15
R438 0
R439 0
R440 0
R441 0
R442 0
R443 0
VCC33
PCICODEC_CLKOUT
FB43
BLM18P600SN1
Y16
VCC
OUT2
OE/STn
GND
OSC 16.93MHZ
R444
33
C524
0.1uF
C525
C526
C527
C528
C529
C530
0.1uF
(PIC_IF(AC97&I2S))
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9 Parts List

The parts list of this board is given below.

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
1	C	1	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
2	C	10	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
3	C	11	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
4	C	12	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
5	C	13	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
6	C	14	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
7	C	15	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
8	C	16	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
9	C	17	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
10	C	2	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
11	C	3	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
12	C	4	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
13	C	5	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
14	C	6	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
15	C	7	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
16	C	8	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
17	C	9	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE01_SH-4 IF(1/2)	
18	NR	1	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
19	NR	10	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
20	NR	11	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
21	NR	12	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
22	NR	13	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
23	NR	14	33x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
24	NR	15	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
25	NR	16	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
26	NR	17	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
27	NR	18	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
28	NR	19	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
29	NR	2	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
30	NR	20	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
31	NR	21	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
32	NR	22	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
33	NR	23	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
34	NR	24	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
35	NR	25	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
36	NR	26	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
37	NR	27	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
38	NR	28	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
39	NR	29	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
40	NR	3	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
41	NR	30	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
42	NR	31	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
43	NR	4	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
44	NR	5	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
45	NR	6	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
46	NR	7	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
47	NR	8	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
48	NR	9	33x4	Network resistors	CN1E4KTBK 33ΩJ	1005x4	KOA	PAGE01_SH-4 IF(1/2)	
49	R	1	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE01_SH-4 IF(1/2)	
50	TP	1	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
51	TP	10	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
52	TP	2	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
53	TP	3	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
54	TP	4	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
55	TP	5	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
56	TP	6	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
57	TP	7	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
58	TP	8	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
59	TP	9	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE01_SH-4 IF(1/2)	
60	U	1	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE01_SH-4 IF(1/2)	
61	U	2	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE01_SH-4 IF(1/2)	
62	U	3	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE01_SH-4 IF(1/2)	
63	U	4	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE01_SH-4 IF(1/2)	
64	U	5	-	CPU	HD6417751RBP240	BGA-256	Renesas Technology	PAGE01_SH-4 IF(1/2)	
65	U	6	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE01_SH-4 IF(1/2)	
66	C	18	22p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
67	C	19	22p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
68	C	20	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
69	C	21	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
70	C	22	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
71	C	23	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
72	C	24	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
73	C	25	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
74	C	26	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE02_SH-4 IF(2/2)	
75	C	27	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
76	C	28	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
77	C	29	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
78	C	30	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
79	C	31	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
80	C	32	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
81	C	33	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
82	C	34	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
83	C	35	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
84	C	36	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
85	C	37	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
86	C	38	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
87	C	39	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
88	C	40	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
89	C	41	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
90	C	42	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
91	C	43	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
92	C	44	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
93	C	45	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
94	C	46	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
95	C	47	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
96	C	48	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
97	C	49	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
98	C	50	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
99	C	51	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE02_SH-4 IF(2/2)	
100	C	52	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
101	C	53	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
102	C	54	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
103	C	55	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
104	C	56	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
105	C	57	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
106	C	58	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
107	C	59	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
108	C	60	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
109	C	61	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
110	CN	1	-	HUDIconnector	DX10-36S	-	HIROSE Electric	PAGE02_SH-4 IF(2/2)	
111	CN	2	-	E10Aconnector	FAP14-08#2-0BS		YAMAICHI Electronics	PAGE02_SH-4 IF(2/2)	
112	FB	1	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
113	FB	2	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
114	FB	3	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE02_SH-4 IF(2/2)	
115	LED	18	IVRVGC	LED(G,R,Y)	HSMF-C655	3227	HP	PAGE02_SH-4 IF(2/2)	
116	NR	32	33KX4	Network resistors	CN1E4KTBK 33KΩJ	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
117	NR	33	4.7KX4	Network resistors	CN1E4KTBK 4.7KΩJ	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
118	NR	34	0X4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
119	NR	35	0X4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
120	NR	36	10Kx4	Network resistors	CN1E4KTTD 10KΩJ	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
121	NR	37	10KX4	Network resistors	CN1E4KTTD 10KΩJ	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
122	NR	38	10KX4	Network resistors	CN1E4KTTD 10KΩJ	1005x4	KOA	PAGE02_SH-4 IF(2/2)	
123	R	10	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
124	R	11	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
125	R	12	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE02_SH-4 IF(2/2)	
126	R	2	100k	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	Un-mounting
127	R	3	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
128	R	4	100k	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
129	R	5	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
130	R	6	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
131	R	7	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
132	R	8	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
133	R	9	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
134	R	372	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE02_SH-4 IF(2/2)	
135	R	373	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE02_SH-4 IF(2/2)	Un-mounting
136	R	421	330	Resistor	RK73B1JBK 330ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
137	R	422	330	Resistor	RK73B1JBK 330ΩJ	1608	KOA	PAGE02_SH-4 IF(2/2)	
138	S	1	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE02_SH-4 IF(2/2)	
139	TP	11	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE02_SH-4 IF(2/2)	
140	TP	12	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE02_SH-4 IF(2/2)	
141	U	7	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE02_SH-4 IF(2/2)	
142	U	8	-	Logic(1G)	HD74LV1G126A	CMPAK-5	Renesas Technology	PAGE02_SH-4 IF(2/2)	
143	U	9	-	Zero Delay Buffer	CY2305SC-1	SO-8	CYPRESS	PAGE02_SH-4 IF(2/2)	
144	Y	1	32.768KHz	Crystal Oscillator	CFS-206	-	CITIZEN	PAGE02_SH-4 IF(2/2)	
145	Y	2	20MHZ	Crystal Oscillator	SG-8002CA 20MHZ	-	EPSON	PAGE02_SH-4 IF(2/2)	
146	Y	3	33MHZ	Crystal Oscillator	SG-8002CA 33MHZ	-	EPSON	PAGE02_SH-4 IF(2/2)	
147	Y	4	1.842MHZ	Crystal Oscillator	SG-8002CA 1.842MHZ	-	EPSON	PAGE02_SH-4 IF(2/2)	
148	C	62	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
149	C	63	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
150	C	64	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
151	C	65	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
152	C	66	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
153	C	67	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
154	C	68	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
155	C	69	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
156	C	70	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
157	C	71	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
158	C	72	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
159	C	73	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
160	C	74	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
161	C	75	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE03_SDRAM	
162	M	1	-	SDRAM	EDS2516ACTA	TSOP-54	ELPIDA	PAGE03_SDRAM	
163	M	2	-	SDRAM	EDS2516ACTA	TSOP-54	ELPIDA	PAGE03_SDRAM	
164	N	R39	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
165	N	R40	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
166	N	R41	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
167	N	R42	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
168	N	R43	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
169	N	R44	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
170	N	R45	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
171	N	R46	22x4	Network resistors	CN1E4KTBK 22ΩJ	1005x4	KOA	PAGE03_SDRAM	
172	C	100	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
173	C	101	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
174	C	102	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
175	C	103	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
176	C	104	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
177	C	105	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
178	C	106	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
179	C	107	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
180	C	108	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
181	C	109	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
182	C	110	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
183	C	111	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
184	C	112	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
185	C	113	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
186	C	114	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
187	C	115	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
188	C	116	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
189	C	117	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
190	C	118	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
191	C	119	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
192	C	120	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
193	C	121	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
194	C	122	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
195	C	123	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
196	C	124	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
197	C	125	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
198	C	126	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
199	C	127	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
200	C	128	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
201	C	129	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
202	C	130	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
203	C	131	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
204	C	76	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
205	C	77	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
206	C	78	4.7u	Aluminium Electrolytic Capacitors	MVK35VC4R7MD55	4.3 x 4.3	NIPPON CHEMI-CON	PAGE04_PCI BUS IF	
207	C	79	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
208	C	80	4.7u	Aluminium Electrolytic Capacitors	MVK35VC4R7MD55	4.3 x 4.3	NIPPON CHEMI-CON	PAGE04_PCI BUS IF	
209	C	81	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
210	C	82	4.7u	Aluminium Electrolytic Capacitors	MVK35VC4R7MD55	4.3 x 4.3	NIPPON CHEMI-CON	PAGE04_PCI BUS IF	
211	C	83	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
212	C	84	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
213	C	85	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
214	C	86	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
215	C	87	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
216	C	88	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
217	C	89	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
218	C	90	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
219	C	91	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
220	C	92	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
221	C	93	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
222	C	94	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
223	C	95	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
224	C	96	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
225	C	97	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
226	C	98	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
227	C	99	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE04_PCI BUS IF	
228	CN	3	-	PCIconnector	P/N EH06001-GL-V	-	FOXCONN	PAGE04_PCI BUS IF	
229	CN	4	-	PCMCIAconnector	ICM-CB68H-S112-502N	-	JST	PAGE04_PCI BUS IF	
230	CN	5	-	PCIconnector	P/N EH06001-GL-V	-	FOXCONN	PAGE04_PCI BUS IF	
231	JP	6	3	3pin jumper	M20-9770222		HARWIN	PAGE04_PCI BUS IF	Un-mounting
232	JP	7	3	3pin jumper	M20-9770222		HARWIN	PAGE04_PCI BUS IF	Un-mounting
233	NR	47	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
234	NR	48	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
235	NR	49	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
236	NR	50	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
237	NR	51	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
238	NR	52	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
239	NR	53	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
240	NR	54	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
241	NR	55	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
242	NR	56	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
243	NR	57	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
244	NR	58	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
245	NR	59	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
246	NR	60	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
247	NR	61	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
248	NR	62	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
249	NR	63	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
250	NR	64	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
251	NR	65	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
252	NR	66	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
253	NR	67	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
254	NR	68	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
255	NR	69	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
256	NR	70	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
257	NR	71	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
258	NR	72	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
259	NR	73	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
260	NR	74	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
261	NR	75	100Kx4	Network resistors	CAY16 100K	3216	Bourns	PAGE04_PCI BUS IF	
262	NR	76	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
263	NR	77	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
264	NR	78	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE04_PCI BUS IF	
265	R	13	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE04_PCI BUS IF	
266	R	14	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
267	R	15	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
268	R	16	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
269	R	17	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE04_PCI BUS IF	
270	R	18	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
271	R	19	10K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE04_PCI BUS IF	
272	R	20	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE04_PCI BUS IF	
273	R	21	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE04_PCI BUS IF	
274	R	22	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE04_PCI BUS IF	
275	R	23	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE04_PCI BUS IF	
276	R	24	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
277	R	25	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
278	R	26	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
279	R	27	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
280	R	28	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE04_PCI BUS IF	
281	R	29	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
282	R	30	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE04_PCI BUS IF	
283	R	31	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE04_PCI BUS IF	
284	R	32	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE04_PCI BUS IF	
285	R	308	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE04_PCI BUS IF	
286	R	313	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE04_PCI BUS IF	
287	U	10	-	PCI to CardBus	PCI1520GHK	S-PBGA-N209	TI	PAGE04_PCI BUS IF	
288	U	11		switch	TPS2224PWP		TI	PAGE04_PCI BUS IF	
289	C	132	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
290	C	133	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
291	C	134	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
292	C	135	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE05_ETHER CONT IF	
293	C	136	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
294	C	137	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
295	C	138	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
296	C	139	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
297	C	140	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
298	C	141	22u	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE05_ETHER CONT IF	
299	C	142	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
300	C	143	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
301	C	144	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
302	C	145	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
303	C	146	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
304	C	147	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
305	C	148	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
306	C	149	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
307	C	150	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
308	C	151	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
309	C	152	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
310	C	153	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
311	CN	6	-	RJ45connector	NU1S041C-434	-	BOTHHAND	PAGE05_ETHER CONT IF	
312	FB	4	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
313	FB	5	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
314	FB	6	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
315	FB	7	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
316	FB	8	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE05_ETHER CONT IF	
317	M	3	-	EEPROM(2line)	AT93C46-10SI-2.7	SO-8	ATMEL	PAGE05_ETHER CONT IF	
318	NR	79	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE05_ETHER CONT IF	
319	NR	80	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE05_ETHER CONT IF	
320	Q	1	-	Transistor	2SB1197K	SMT3	ROHM	PAGE05_ETHER CONT IF	
321	R	33	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE05_ETHER CONT IF	
322	R	34	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE05_ETHER CONT IF	
323	R	35	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE05_ETHER CONT IF	
324	R	36	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE05_ETHER CONT IF	
325	R	37	5.6K	Resistor	RK73H1JTBK 5.6KΩF	1608	KOA	PAGE05_ETHER CONT IF	
326	R	38	49.9	Resistor	RK73H1JTBK 49.9ΩF	1608	KOA	PAGE05_ETHER CONT IF	
327	R	39	49.9	Resistor	RK73H1JTBK 49.9ΩF	1608	KOA	PAGE05_ETHER CONT IF	

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
328	R	40	49.9	Resistor	RK73H1JTBK 49.9ΩF	1608	KOA	PAGE05_ETHER CONT IF	
329	R	41	49.9	Resistor	RK73H1JTBK 49.9ΩF	1608	KOA	PAGE05_ETHER CONT IF	
330	R	42	510	Resistor	RK73B1JBK 510ΩJ	1608	KOA	PAGE05_ETHER CONT IF	
331	R	43	510	Resistor	RK73B1JBK 510ΩJ	1608	KOA	PAGE05_ETHER CONT IF	
332	R	44	510	Resistor	RK73B1JBK 510ΩJ	1608	KOA	PAGE05_ETHER CONT IF	
333	R	45	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE05_ETHER CONT IF	
334	R	46	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE05_ETHER CONT IF	
335	R	47	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE05_ETHER CONT IF	
336	U	12	-	10/100BASE-T	RTL8139DL	LQFP-100	REALTEK	PAGE05_ETHER CONT IF	
337	U	13	-	Logic(1G)	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE05_ETHER CONT IF	
338	U	14	-	Logic(1G)	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE05_ETHER CONT IF	
339	U	15	-	Logic(1G)	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE05_ETHER CONT IF	
340	Y	5	25MHz	Crystal Oscillator	SG-8002CA 25MHZ	-	EPSON	PAGE05_ETHER CONT IF	
341	BT	1	BATTERY						
342	C	154	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
343	C	155	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
344	C	156	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
345	C	157	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
346	C	158	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
347	C	159	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
348	C	160	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
349	C	161	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE06_RS232C/RTC IF	
350	CN	7	UARTconnector(下)		DM1015-73		FOXCON	PAGE06_RS232C/RTC IF	
351	D	1	-	Diode	DAN222		ROHM	PAGE06_RS232C/RTC IF	
352	NR	81	100Kx4	Network resistors	CN1E4KTBK 100KΩJ	1005x4	KOA	PAGE06_RS232C/RTC IF	
353	NR	139	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE06_RS232C/RTC IF	
354	R	48	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
355	R	49	12K	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
356	R	50	12K	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
357	R	51	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
358	R	52	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
359	R	53	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE06_RS232C/RTC IF	
360	R	54	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE06_RS232C/RTC IF	
361	R	55	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
362	R	56	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
363	R	57	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
364	R	58	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
365	R	59	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE06_RS232C/RTC IF	
366	TP	13	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE06_RS232C/RTC IF	
367	U	16	-	RS232C Tranceiver	MAX3233ECWP	SOIC	MAXIM	PAGE06_RS232C/RTC IF	
368	U	17	-	RTC	RTC-9701	VSOJ-20	EPSON	PAGE06_RS232C/RTC IF	
369	U	18	-	Zero Delay Buffer	CY2305SC-1	SO-8	CYPRESS	PAGE06_RS232C/RTC IF	
370	U	19	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE06_RS232C/RTC IF	
371	C	162	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
372	C	163	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
373	C	164	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
374	C	165	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
375	C	166	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
376	C	167	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
377	C	168	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
378	C	169	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
379	C	170	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
380	C	171	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
381	C	172	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
382	C	173	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
383	C	174	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
384	C	175	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
385	C	176	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
386	C	177	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
387	C	178	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE07_ROM IF	
388	CN	8		ROM DB INF	52760-1009		MOLEX	PAGE07_ROM IF	
389	R	60	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE07_ROM IF	
390	R	61	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE07_ROM IF	
391	U	20	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE07_ROM IF	
392	U	21	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE07_ROM IF	
393	U	22	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE07_ROM IF	
394	U	23	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE07_ROM IF	
395	U	24	-	Logic	HD74LVC244AT	TTP-20DB	Renesas Technology	PAGE07_ROM IF	
396	C	179	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
397	C	180	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
398	C	181	33p	Chip Monolithic Ceramic Capacitors	GRM1882C1H330JZ01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
399	C	182	0.001u	Chip Monolithic Ceramic Capacitors	GRM188B11H102KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
400	C	183	33p	Chip Monolithic Ceramic Capacitors	GRM1882C1H330JZ01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
401	C	184	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
402	C	185	0.001u	Chip Monolithic Ceramic Capacitors	GRM188B11H102KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
403	C	186	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
404	C	187	4.7u	Aluminium Electrolytic Capacitors	MVK50VC4R7MD55	5.3 x 5.36	NIPPON CHEMI-CON	PAGE08_LAN/MII IF	
405	C	188	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
406	C	189	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
407	C	190	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
408	C	191	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
409	C	192	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
410	C	193	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
411	C	194	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
412	C	195	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
413	C	196	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
414	C	197	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
415	C	198	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
416	C	199	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
417	C	200	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
418	C	201	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
419	C	202	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
420	C	203	4.7u	Aluminium Electrolytic Capacitors	MVK50VC4R7MD55	5.3 x 5.36	NIPPON CHEMI-CON	PAGE08_LAN/MII IF	
421	C	204	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE08_LAN/MII IF	
422	C	205	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE08_LAN/MII IF	
423	CN	10	MII_I2C_ZOOM		52760-1209		Molex	PAGE08_LAN/MII IF	
424	CN	9	LAN-MATE		LU1S516		BOTHHAND	PAGE08_LAN/MII IF	
425	FB	10	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
426	FB	11	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
427	FB	12	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
428	FB	9	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE08_LAN/MII IF	
429	LED	1	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE08_LAN/MII IF	
430	LED	2	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE08_LAN/MII IF	
431	LED	3	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE08_LAN/MII IF	
432	NR	82	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩJ	1005x4	KOA	PAGE08_LAN/MII IF	
433	NR	83	33Kx4	Network resistors	CN1E4KTBK 33KΩJ	1005x4	KOA	PAGE08_LAN/MII IF	
434	R	62	330	Resistor	RK73B1JBK 330ΩJ	1608	KOA	PAGE08_LAN/MII IF	
435	R	63	330	Resistor	RK73B1JBK 330ΩJ	1608	KOA	PAGE08_LAN/MII IF	
436	R	64	330	Resistor	RK73B1JBK 330KΩJ	1608	KOA	PAGE08_LAN/MII IF	

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
437	R	65	10k	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE08_LAN/MII IF	
438	R	66	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
439	R	67	12k	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE08_LAN/MII IF	
440	R	68	12k	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE08_LAN/MII IF	
441	R	69	12k	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE08_LAN/MII IF	
442	R	70	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE08_LAN/MII IF	
443	R	71	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE08_LAN/MII IF	
444	R	72	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	Un-mounting
445	R	73	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
446	R	74	2M	Resistor	RK73B1JBK 2MΩJ	1608	KOA	PAGE08_LAN/MII IF	
447	R	75	47	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE08_LAN/MII IF	
448	R	76	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE08_LAN/MII IF	
449	R	77	4.7k	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE08_LAN/MII IF	
450	R	78	10k(1%)	Resistor	RK73H1JTBK 10KΩF	1608	KOA	PAGE08_LAN/MII IF	
451	R	79	22k(1%)	Resistor	RK73H1JTBK 22KΩF	1608	KOA	PAGE08_LAN/MII IF	
452	R	80	2.2(1%)	Resistor	RK73H1JTBK 2.2ΩF	1608	KOA	PAGE08_LAN/MII IF	
453	R	81	680(1%)	Resistor	RK73H1JTBK 680ΩF	1608	KOA	PAGE08_LAN/MII IF	
454	R	82	2.2k(1%)	Resistor	RK73H1JTBK 2.2KΩF	1608	KOA	PAGE08_LAN/MII IF	
455	R	83	220(1%)	Resistor	RK73H1JTBK 220ΩF	1608	KOA	PAGE08_LAN/MII IF	
456	R	84	68(1%)	Resistor	RK73H1JTBK 68ΩF	1608	KOA	PAGE08_LAN/MII IF	
457	R	85	15k(1%)	Resistor	RK73H1JTBK 15KΩF	1608	KOA	PAGE08_LAN/MII IF	
458	R	86	4.7k(1%)	Resistor	RK73H1JTBK 4.7KΩF	1608	KOA	PAGE08_LAN/MII IF	
459	R	87	330(1%)	Resistor	RK73H1JTBK 330ΩF	1608	KOA	PAGE08_LAN/MII IF	
460	R	88	33k	Resistor	RK73B1JBK 33KΩJ	1608	KOA	PAGE08_LAN/MII IF	
461	R	89	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE08_LAN/MII IF	
462	R	90	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE08_LAN/MII IF	
463	R	91	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE08_LAN/MII IF	
464	R	92	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
465	R	93	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
466	R	94	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE08_LAN/MII IF	
467	R	95	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
468	R	96	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
469	R	97	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
470	R	98	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
471	R	159	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE08_LAN/MII IF	
472	R	160	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE08_LAN/MII IF	
473	R	161	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
474	R	162	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE08_LAN/MII IF	
475	R	163	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE08_LAN/MII IF	
476	R	164	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE08_LAN/MII IF	
477	S	2	8bit	DIP SW	CHS-08B		NIDEC COPAL ELECTRONICS	PAGE08_LAN/MII IF	
478	TP	14	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE08_LAN/MII IF	
479	U	25	LAN Controller		AX88796I	QFP128	ASIX	PAGE08_LAN/MII IF	
480	M	9	EEPROM		AT93C56	SO-8	ATMEL	PAGE08_LAN/MII IF	
481	Y	6	25.0MHz	Crystal Oscillator	CX-16F 25.0MHZ	-	SEIKO EPSON	PAGE08_LAN/MII IF	
482	C	206	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE09_SD_CARD IF	
483	C	207	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
484	C	208	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
485	C	209	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
486	C	210	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
487	C	211	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
488	C	212	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
489	C	213	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
490	CN	11	SD Card connector		SDC01-09-31D		KEL	PAGE09_SD_CARD IF	
491	FB	13	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE09_SD_CARD IF	
492	NR	84	51Kx4	Network resistors	CN1E4KTBK 51KΩ	1005x4	KOA	PAGE09_SD_CARD IF	
493	NR	85	51Kx4	Network resistors	CN1E4KTBK 51KΩ	1005x4	KOA	PAGE09_SD_CARD IF	
494	Q	2	FET		NDS352P	SOT-23	FAIRCHILD	PAGE09_SD_CARD IF	
495	R	99	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE09_SD_CARD IF	
496	R	100	4.7k	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE09_SD_CARD IF	
497	R	101	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
498	R	102	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
499	R	103	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
500	R	104	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
501	R	105	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
502	R	106	47	Resistor	RK73B1JBK 47ΩJ	1608	KOA	PAGE09_SD_CARD IF	
503	R	107	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE09_SD_CARD IF	Un-mounting
504	R	108	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE09_SD_CARD IF	
505	R	109	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE09_SD_CARD IF	
506	R	110	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE09_SD_CARD IF	
507	R	111	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE09_SD_CARD IF	
508	R	99	10k	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE09_SD_CARD IF	
509	R	344	33k	Resistor	RK73B1JBK 33KΩJ	1608	KOA	PAGE09_SD_CARD IF	
510	R	345	33k	Resistor	RK73B1JBK 33KΩJ	1608	KOA	PAGE09_SD_CARD IF	
511	U	27	SD Card controller		TE4300-H	LQFP48	Tokyo Electron Device	PAGE09_SD_CARD IF	
512	Y	7	66MHZ	Crystal Oscillator	SG-8002CA 66.666MHZ	-	EPSON	PAGE09_SD_CARD IF	
513	C	214	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE10_FROM IF	
514	C	215	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE10_FROM IF	
515	M	4	-	FROM	MBM29F040-90PD	LCC-32	Fujitsu	PAGE10_FROM IF	
516			-	FLASH Socket	IC160-0324-300	LCC-32	YAMAICHI Electronics	PAGE10_FROM IF	
517	M	5	-	FROM	MBM29F040-90PD	LCC-32	Fujitsu	PAGE10_FROM IF	
518			-	FLASH Socket	IC160-0324-300	LCC-32	YAMAICHI Electronics	PAGE10_FROM IF	
519	R	112	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE10_FROM IF	Un-mounting
520	R	113	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE10_FROM IF	
521	C	216	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
522	C	217	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
523	C	218	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
524	C	219	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
525	C	220	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
526	C	221	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
527	C	222	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
528	C	223	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
529	C	224	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
530	C	225	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
531	C	226	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
532	C	227	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
533	C	228	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
534	C	229	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
535	C	230	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
536	C	231	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE11_CF IF	
537	CN	12	-	CFconnector	ICM-MA2H-SS52-N11B		JST	PAGE11_CF IF	
538	LED	4	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE11_CF IF	
539	LED	5	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE11_CF IF	
540	LED	6	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE11_CF IF	
541	NR	86	100Kx4	Network resistors	CN1E4KTBK 100KΩ	1005x4	KOA	PAGE11_CF IF	
542	NR	87	100Kx4	Network resistors	CN1E4KTBK 100KΩ	1005x4	KOA	PAGE11_CF IF	
543	R	114	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE11_CF IF	
544	R	115	510	Resistor	RK73B1JBK 510ΩJ	1608	KOA	PAGE11_CF IF	
545	R	116	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
546	R	117	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
547	R	118	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
548	R	119	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
549	R	120	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
550	R	121	1.5K	Resistor	RK73B1JBK 1.5KΩJ	1608	KOA	PAGE11_CF IF	
551	R	122	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
552	R	123	1.5K	Resistor	RK73B1JBK 1.5KΩJ	1608	KOA	PAGE11_CF IF	
553	R	124	1.5K	Resistor	RK73B1JBK 1.5KΩJ	1608	KOA	PAGE11_CF IF	
554	R	125	33K	Resistor	RK73B1JBK 33KΩJ	1608	KOA	PAGE11_CF IF	
555	R	126	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
556	R	127	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
557	R	128	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE11_CF IF	
558	R	129	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE11_CF IF	Un-mounting
559	R	130	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE11_CF IF	
560	R	131	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
561	R	132	47K	Resistor	RK73B1JBK 47KΩJ	1608	KOA	PAGE11_CF IF	
562	R	133	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE11_CF IF	
563	U	28	-	Switch	TPS2211IDBLE		TI	PAGE11_CF IF	
564	U	29	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE11_CF IF	
565	U	30	-	Logic	HD74LVC373A	TTP-20DA	Renesas Technology	PAGE11_CF IF	
566	U	31	-	Logic	HD74LVC373A	TTP-20DA	Renesas Technology	PAGE11_CF IF	
567	U	32	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE11_CF IF	
568	U	33	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE11_CF IF	
569	U	34	-	Logic	HD74LVC00	TTP-14DA	Renesas Technology	PAGE11_CF IF	
570	U	35	-	Logic(1G)	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE11_CF IF	
571	U	36	-	Logic	HD74LVC32	TTP-14DA	Renesas Technology	PAGE11_CF IF	
572	C	232	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE12_LCD/CRT IF	
573	C	233	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE12_LCD/CRT IF	
574	C	234	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
575	C	235	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
576	C	236	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
577	C	237	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
578	C	238	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
579	C	239	10 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H100JZ01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
580	C	522	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
581	C	523	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE12_LCD/CRT IF	
582	CN	13	LCD INV connector		53261-0590		Molex	PAGE12_LCD/CRT IF	
583	CN	14	LCD connector		DF9-31P-1V		HIROSE Electric	PAGE12_LCD/CRT IF	
584	CN	15	CRT_IF connector		HPDEB-15SAT-F		CINCH (RS)	PAGE12_LCD/CRT IF	
585	D	2	SW_DIODES		MA143CT	TO-236	Panasonic	PAGE12_LCD/CRT IF	
586	D	3	SW_DIODES		MA143CT	TO-236	Panasonic	PAGE12_LCD/CRT IF	
587	D	4	SW_DIODES		MA143CT	TO-236	Panasonic	PAGE12_LCD/CRT IF	
588	JP	1	3	3pin jumper	M20-9770222		HARWIN	PAGE12_LCD/CRT IF	
589	NR	88	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE12_LCD/CRT IF	
590	NR	89	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE12_LCD/CRT IF	
591	NR	90	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE12_LCD/CRT IF	
592	NR	91	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE12_LCD/CRT IF	
593	Q	3	N-Channel Transistor		2N7002S	SOT-23	FAIRCHILD	PAGE12_LCD/CRT IF	
594	Q	4	N-Channel Transistor		2N7002S	SOT-23	FAIRCHILD	PAGE12_LCD/CRT IF	
595	R	134	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE12_LCD/CRT IF	
596	R	136	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE12_LCD/CRT IF	
597	R	137	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
598	R	138	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
599	R	139	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE12_LCD/CRT IF	
600	R	140	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE12_LCD/CRT IF	
601	R	141	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE12_LCD/CRT IF	
602	R	142	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
603	R	143	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
604	R	144	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
605	R	145	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
606	R	146	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
607	R	147	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
608	R	148	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
609	R	149	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
610	R	150	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
611	R	151	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE12_LCD/CRT IF	
612	R	153	75	Resistor	RK73B1JBK 75ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
613	R	154	75	Resistor	RK73B1JBK 75ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
614	R	155	75	Resistor	RK73B1JBK 75ΩJ	1608	KOA	PAGE12_LCD/CRT IF	
615	S	11		Switch	TL36WW000200	DIP	RS	PAGE12_LCD/CRT IF	
616	U	37	MOS-FET		Si9948DY	SO-8	TEMIC	PAGE12_LCD/CRT IF	
617	U	76	-	Logic(1G)	HD74LV1GT08A	CMPAK-5	Renesas Technology	PAGE12_LCD/CRT IF	
618	U	77	-	Logic(1G)	HD74LV1GT08A	CMPAK-5	Renesas Technology	PAGE12_LCD/CRT IF	
619	VR	1	-	Trimmer Potentiometers	CT-94W 10KΩ	DIP	NIDEC COPAL ELECTRONICS	PAGE12_LCD/CRT IF	
620	VR	5	-	Trimmer Potentiometers	RJ-4W 50KΩ	DIP	NIDEC COPAL ELECTRONICS	PAGE12_LCD/CRT IF	
621	C	240	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
622	C	241	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
623	C	242	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
624	C	243	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
625	C	244	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
626	C	245	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
627	C	246	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
628	C	247	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
629	C	248	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
630	C	249	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
631	C	250	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
632	C	251	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
633	C	252	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
634	C	253	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
635	C	254	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
636	C	255	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
637	C	256	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
638	C	257	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
639	C	258	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
640	C	259	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
641	C	260	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
642	C	261	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
643	C	262	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
644	C	263	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
645	C	264	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
646	C	265	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
647	C	266	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
648	C	267	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
649	C	268	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
650	C	269	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
651	C	270	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
652	C	271	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE13_EXT_BUS_1/2 IF	
653	CN	16	-	CONNECTOR	KX14-140K8D1		JAE	PAGE13_EXT_BUS_1/2 IF	
654	U	38	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE13_EXT_BUS_1/2 IF	

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
655	U	39	-	Logic	HD74LVC16245AT	TTP-48DB	Renesas Technology	PAGE13_EXT_BUS_1/2 IF	
656	C	272	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
657	C	273	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
658	C	274	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
659	C	275	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
660	C	276	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
661	C	277	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
662	C	278	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
663	C	279	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
664	C	280	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
665	C	281	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
666	C	282	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
667	C	283	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
668	C	284	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
669	C	285	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
670	C	286	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
671	C	287	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
672	C	288	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
673	C	289	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
674	C	290	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
675	C	291	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
676	C	292	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
677	C	293	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
678	C	294	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
679	C	295	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
680	C	296	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
681	C	297	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
682	C	298	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
683	C	299	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
684	C	300	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
685	C	301	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
686	C	302	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
687	C	303	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
688	C	304	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE14_EXT_BUS_2/2 IF	
689	CN	17	-	CONNECTOR	KX14-140K8D1		JAE	PAGE14_EXT_BUS_2/2 IF	
690	NR	100	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
691	NR	92	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
692	NR	93	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
693	NR	94	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
694	NR	95	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
695	NR	96	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
696	NR	97	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
697	NR	98	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
698	NR	99	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE14_EXT_BUS_2/2 IF	
699	R	156	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE14_EXT_BUS_2/2 IF	
700	R	157	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE14_EXT_BUS_2/2 IF	
701	R	158	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE14_EXT_BUS_2/2 IF	
702	U	40	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE14_EXT_BUS_2/2 IF	
703	U	41	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE14_EXT_BUS_2/2 IF	
704	U	42	-	Logic	HD74LVC16244AT	TTP-48DB	Renesas Technology	PAGE14_EXT_BUS_2/2 IF	
705	U	43	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE14_EXT_BUS_2/2 IF	
706	C	311	47uF	Chip Monolithic Ceramic Capacitors	C3225JF1A476Z	3225	TDK	PAGE15_I2S/Touch Panel IF	Un-mounting
707	C	312	47uF	Chip Monolithic Ceramic Capacitors	C3225JF1A476Z	3225	TDK	PAGE15_I2S/Touch Panel IF	Un-mounting
708	C	315	1000 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H102JZ01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
709	C	316	1000 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H102JZ01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
710	C	505	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
711	C	506	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
712	C	507	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
713	C	508	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
714	C	509	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
715	C	510	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
716	C	511	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
717	C	512	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
718	C	513	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
719	C	514	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
720	C	515	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
721	C	516	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
722	C	517	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
723	C	518	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
724	C	519	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
725	C	520	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE15_I2S/Touch Panel IF	Un-mounting
726	CN	25	TACHE P IF		14FLH_SM1		JST	PAGE15_I2S/Touch Panel IF	
727	FB	40	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
728	FB	41	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
729	FB	42	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE15_I2S/Touch Panel IF	Un-mounting
730	J	1	AUDIO JACK		JA133L-133(Blue)		FOXCON	PAGE15_I2S/Touch Panel IF	
731	NR	140	10Kx4	Network resistors	CN1E4KTBK 10KΩ	1005x4	KOA	PAGE15_I2S/Touch Panel IF	
732	NR	141	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE15_I2S/Touch Panel IF	
733	R	174	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
734	R	173	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
735	R	378	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
736	R	381	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
737	R	382	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
738	R	383	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
739	R	384	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
740	R	385	22	Resistor	RK73B1JBK 22ΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
741	R	386	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
742	R	387	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
743	R	388	1	Resistor	35201R0JTG	6432	Maggitt CGS	PAGE15_I2S/Touch Panel IF	Un-mounting
744	R	389	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
745	R	390	1	Resistor	35201R0JTG	6432	Maggitt CGS	PAGE15_I2S/Touch Panel IF	Un-mounting
746	R	391	1	Resistor	35201R0JTG	6432	Maggitt CGS	PAGE15_I2S/Touch Panel IF	Un-mounting
747	R	392	1	Resistor	35201R0JTG	6432	Maggitt CGS	PAGE15_I2S/Touch Panel IF	Un-mounting
748	R	393	1	Resistor	35201R0JTG	6432	Maggitt CGS	PAGE15_I2S/Touch Panel IF	Un-mounting
749	R	394	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
750	R	395	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
751	R	396	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
752	R	397	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
753	R	398	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
754	R	399	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
755	R	400	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
756	R	401	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
757	R	402	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
758	R	403	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
759	R	404	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
760	R	405	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
761	R	406	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
762	R	407	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting
763	R	408	5.6K	Resistor	RK73B1JBK 5.6KΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	Un-mounting

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
764	R	423	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	
765	R	424	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE15_I2S/Touch Panel IF	
766	U	75	I2S CODEC		UDA1345TS	SSOP-28	PHILIPS	PAGE15_I2S/Touch Panel IF	Un-mounting
767	Y	8	16.93MHZ	Crystal Oscillator	SG-8002CA 16.93MHZ	-	EPSON	PAGE15_I2S/Touch Panel IF	Un-mounting
768	C	329	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE16_UART/USB IF	
769	C	330	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
770	C	331	47 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H470JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	Un-mounting
771	C	332	47 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H470JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	Un-mounting
772	C	333	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
773	C	334	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
774	C	335	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE16_UART/USB IF	
775	C	336	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
776	C	337	47 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H470JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	Un-mounting
777	C	338	47 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H470JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	Un-mounting
778	C	339	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
779	C	340	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
780	C	341	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
781	C	342	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
782	C	343	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
783	C	344	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
784	C	345	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
785	C	346	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
786	C	347	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
787	C	348	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE16_UART/USB IF	
788	CN	20	USBconnector(下)		XM7A-0442-A		OMRON	PAGE16_UART/USB IF	
789	CN	21	UARTconnector(上)		DM1015-73		FOCCON	PAGE16_UART/USB IF	
790	FB	16	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
791	FB	17	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
792	FB	18	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
793	FB	19	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
794	FB	20	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
795	FB	21	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE16_UART/USB IF	
796	LED	7	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE16_UART/USB IF	
797	LED	8	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE16_UART/USB IF	
798	NR	101	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE16_UART/USB IF	
799	R	179	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
800	R	180	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
801	R	181	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
802	R	182	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
803	R	183	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
804	R	184	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
805	R	185	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
806	R	186	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
807	R	187	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE16_UART/USB IF	
808	R	188	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE16_UART/USB IF	
809	R	189	100K	Resistor	RK73B1JBK 100KΩJ	1608	KOA	PAGE16_UART/USB IF	
810	R	190	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE16_UART/USB IF	
811	R	191	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE16_UART/USB IF	
812	R	192	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
813	R	193	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
814	R	195	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
815	R	196	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE16_UART/USB IF	
816	R	197	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
817	R	198	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
818	R	199	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
819	R	200	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
820	R	201	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
821	R	202	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
822	R	203	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE16_UART/USB IF	
823	R	204	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE16_UART/USB IF	
824	R	228	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE16_UART/USB IF	Un-mounting
825	R	229	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE16_UART/USB IF	Un-mounting
826	R	304	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE16_UART/USB IF	
827	R	305	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE16_UART/USB IF	
828	R	309	12K	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE16_UART/USB IF	
829	R	310	12K	Resistor	RK73B1JBK 12KΩJ	1608	KOA	PAGE16_UART/USB IF	
830	R	409	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE16_UART/USB IF	Un-mounting
831	R	410	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE16_UART/USB IF	Un-mounting
832	R	411	15K	Resistor	RK73B1JBK 15KΩJ	1608	KOA	PAGE16_UART/USB IF	
833	R	412	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE16_UART/USB IF	
834	R	413	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE16_UART/USB IF	
835	R	414	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE16_UART/USB IF	
836	R	415	100	Resistor	RK73B1JBK 100ΩJ	1608	KOA	PAGE16_UART/USB IF	
837	R	416	10	Resistor	RK73B1JBK 10ΩJ	1608	KOA	PAGE16_UART/USB IF	
838	R	417	20	Resistor	RK73B1JBK 20ΩJ	1608	KOA	PAGE16_UART/USB IF	
839	R	418	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE16_UART/USB IF	
840	R	419	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE16_UART/USB IF	
841	U	45	-	RS232C Tranceiver	MAX3233ECWP	SOIC	MAXIM	PAGE16_UART/USB IF	
842	U	46	USB HUB controller		CY7C65100	SOIC-28	CYPRESS	PAGE16_UART/USB IF	
843	U	47	USB_POW controller		MI2524-2BWM	SOIC-16	MICREL	PAGE16_UART/USB IF	
844	Y	9	6MHz	Crystal Oscillator	HC-49/U-S 6.0MHZ	-	KINSEKI	PAGE16_UART/USB IF	
845	C	349	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
846	C	354	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
847	C	355	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE17_MOST IF	Un-mounting
848	C	356	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
849	C	359	22p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
850	C	360	22p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
851	C	361	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE17_MOST IF	Un-mounting
852	C	362	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
853	C	363	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
854	C	364	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE17_MOST IF	Un-mounting
855	C	365	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
856	C	366	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
857	CN	18	MOS_IF		22-28-1061		Molex	PAGE17_MOST IF	Un-mounting
858	FB	24	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
859	FB	25	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE17_MOST IF	Un-mounting
860	NR	102	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
861	NR	103	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
862	NR	104	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
863	NR	105	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
864	NR	106	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
865	NR	107	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE17_MOST IF	Un-mounting
866	R	205	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE17_MOST IF	Un-mounting
867	R	206	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE17_MOST IF	Un-mounting
868	R	208	2.2K	Resistor	RK73B1JBK 2.2KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
869	R	210	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE17_MOST IF	Un-mounting
870	R	212	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE17_MOST IF	Un-mounting
871	R	215	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE17_MOST IF	Un-mounting
872	R	216	400K	Resistor	RK73B1JBK 400KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
873	R	217	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
874	R	218	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
875	R	219	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
876	R	220	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
877	R	221	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
878	R	222	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
879	R	223	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
880	R	224	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
881	R	225	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
882	R	226	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
883	R	227	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
884	R	307	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE17_MOST IF	Un-mounting
885	U	48	-	Logic	HD74LVC373A	TTP-20DA	Renesas Technology	PAGE17_MOST IF	Un-mounting
886	U	50	MOST controller		OS8104AQ	TQFP-48	OASIS	PAGE17_MOST IF	Un-mounting
887	Y	10	48KHz	Crystal Oscillator	HC-49/U-S 48KHZ	-	KINSEKI	PAGE17_MOST IF	Un-mounting
888	NR	108	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
889	NR	109	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
890	NR	110	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
891	NR	111	33Kx4	Network resistors	CN1E4KTBK 33KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
892	NR	112	33Kx4	Network resistors	CN1E4KTBK 33KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
893	NR	113	33Kx4	Network resistors	CN1E4KTBK 33KΩ	1005x4	KOA	PAGE18_VOYAGER_CONFIG)	
894	R	230	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
895	R	231	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
896	R	232	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
897	R	233	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
898	R	234	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
899	R	235	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
900	R	236	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
901	R	237	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
902	R	347	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
903	R	348	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	
904	R	445	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	9/22追加
905	R	446	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE18_VOYAGER_CONFIG)	9/22追加
906	S	3	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE18_VOYAGER_CONFIG)	
907	S	4	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE18_VOYAGER_CONFIG)	
908	S	5	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE18_VOYAGER_CONFIG)	
909	C	368	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
910	C	369	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
911	C	370	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
912	C	371	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
913	C	372	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
914	C	373	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
915	C	374	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
916	C	375	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
917	C	376	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
918	C	377	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
919	C	378	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
920	C	379	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
921	C	380	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
922	C	381	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
923	C	382	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
924	C	383	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
925	C	384	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
926	C	385	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
927	C	386	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
928	C	387	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
929	C	388	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
930	C	389	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
931	C	390	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
932	C	391	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
933	C	392	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
934	C	393	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
935	C	394	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
936	C	395	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
937	C	396	22uF	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE19_VOYAGER_IF)	
938	C	397	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
939	C	398	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
940	C	399	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
941	C	400	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
942	C	401	18 pF	Chip Monolithic Ceramic Capacitors	GRM1882C1H180JZ01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
943	C	402	18 pF	Chip Monolithic Ceramic Capacitors	GRM1882C1H180JZ01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
944	C	403	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
945	FB	26	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
946	FB	27	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
947	FB	28	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
948	FB	29	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
949	FB	30	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
950	FB	31	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
951	FB	32	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
952	FB	33	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
953	FB	34	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
954	FB	38	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE19_VOYAGER_IF)	
955	JP	8	3	3pin jumper	M20-9770222		HARWIN	PAGE19_VOYAGER_IF)	
956	NR	114	33x4	Network resistors	CN1E4KTBK 33Ω	1005x4	KOA	PAGE19_VOYAGER_IF)	
957	NR	115	33x4	Network resistors	CN1E4KTBK 33Ω	1005x4	KOA	PAGE19_VOYAGER_IF)	
958	NR	116	33x4	Network resistors	CN1E4KTBK 33Ω	1005x4	KOA	PAGE19_VOYAGER_IF)	
959	R	238	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
960	R	239	470	Resistor	RK73B1JBK 470ΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
961	R	240	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
962	R	241	33	Resistor	RK73B1JBK 33ΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
963	R	242	5.1M	Resistor	RK73B1JBK 5.1MΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
964	R	243	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	Un-mounting
965	R	244	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	Un-mounting
966	R	245	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
967	R	246	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
968	R	247	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
969	R	248	4.7K	Resistor	RK73B1JBK 4.7KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	Un-mounting
970	R	249	1K	Resistor	RK73B1JBK 1KΩJ	1608	KOA	PAGE19_VOYAGER_IF)	
971	R	349	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE19_VOYAGER_IF)	
972	U	52	Voyager GX		SM510	BGA-297	Silicon Motion	PAGE19_VOYAGER_IF)	
973	U	53	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE19_VOYAGER_IF)	
974	U	54	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE19_VOYAGER_IF)	
975	Y	11	24 MHz	Crystal Oscillator	HC-49/U-S 24.0MHZ	-	KINSEKI	PAGE19_VOYAGER_IF)	
976	Y	13	OSC Socket	Crystal Oscillator	SG-8002CA	-	EPSON	PAGE19_VOYAGER_IF)	Un-mounting
977	C	404	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
978	C	405	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
979	C	406	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
980	C	407	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
981	C	408	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
982	C	409	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
983	C	410	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
984	C	411	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
985	C	412	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
986	C	413	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
987	C	414	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
988	C	415	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
989	C	416	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
990	C	417	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
991	M	6	-	SDRAM	EDS2516ACTA	TSOP-54	ELPIDA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
992	M	7	-	SDRAM	EDS2516ACTA	TSOP-54	ELPIDA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
993	NR	117	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
994	NR	118	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
995	NR	119	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
996	NR	120	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
997	NR	121	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
998	NR	122	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
999	NR	123	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1000	NR	124	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1001	NR	125	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1002	NR	126	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1003	NR	127	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1004	NR	128	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1005	NR	129	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1006	NR	131	22x4	Network resistors	CN1E4KTBK 22Ω	1005x4	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1007	R	350	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1008	R	351	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1009	R	352	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1010	R	353	10K	Resistor	RK73B1JBK 10KΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1011	R	354	22	Resistor	RK73B1JBK 22ΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1012	R	355	22	Resistor	RK73B1JBK 22ΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1013	R	367	22	Resistor	RK73B1JBK 22ΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1014	R	357	22	Resistor	RK73B1JBK 22ΩJ	1608	KOA	PAGE20_LOCAL_SDRAM_IF)	Un-mounting
1015	C	418	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1016	C	419	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1017	C	420	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1018	C	421	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1019	C	422	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1020	C	423	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1021	C	424	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1022	C	425	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1023	C	426	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1024	C	427	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1025	C	428	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1026	C	429	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1027	C	430	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1028	C	431	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1029	C	432	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1030	C	433	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1031	C	434	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1032	C	435	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1033	C	436	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1034	C	437	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1035	C	438	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1036	C	492	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1037	C	493	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1038	C	494	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1039	C	495	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1040	C	496	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE21_FPGA)	
1041	C	497	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1042	C	498	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1043	C	499	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE21_FPGA)	
1044	JP	3	2	2pin jumper	M20-9770222		HARWIN	PAGE21_FPGA)	
1045	LED	10	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1046	LED	11	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1047	LED	12	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1048	LED	13	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1049	LED	14	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1050	LED	15	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1051	LED	16	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1052	LED	9	PG	LED(G)	BG1111C	1608	Stanley Electric	PAGE21_FPGA)	
1053	M	8	-	Config ROM	EPC1PC8	DIP-8	ALTERA	PAGE21_FPGA)	
1054			-	ROM socket	W30508T25	DIP-8	WINSLOW		
1055	NR	132	1Kx4	Network resistors	CN1E4KTBK 1KΩ	1005x4	KOA	PAGE21_FPGA)	
1056	NR	133	33Kx4	Network resistors	CN1E4KTBK 33KΩ	1005x4	KOA	PAGE21_FPGA)	
1057	NR	134	330x4	Network resistors	CN1E4KTBK 330Ω	1005x4	KOA	PAGE21_FPGA)	
1058	NR	135	33Kx4	Network resistors	CN1E4KTBK 33KΩ	1005x4	KOA	PAGE21_FPGA)	
1059	NR	136	330x4	Network resistors	CN1E4KTBK 330Ω	1005x4	KOA	PAGE21_FPGA)	
1060	NR	137	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩ	1005x4	KOA	PAGE21_FPGA)	
1061	NR	138	4.7Kx4	Network resistors	CN1E4KTBK 4.7KΩ	1005x4	KOA	PAGE21_FPGA)	
1062	R	250	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1063	R	251	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE21_FPGA)	
1064	R	252	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE21_FPGA)	
1065	R	253	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1066	R	254	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1067	R	255	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1068	R	256	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1069	R	257	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1070	R	258	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1071	R	259	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1072	R	260	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1073	R	261	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1074	R	262	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE21_FPGA)	
1075	R	263	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1076	R	264	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1077	R	265	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1078	R	266	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1079	R	267	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1080	R	268	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1081	R	269	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1082	R	270	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1083	R	271	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1084	R	272	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1085	R	273	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1086	R	274	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1087	R	275	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1088	R	276	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1089	R	277	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1090	R	278	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
1091	R	279	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1092	R	280	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1093	R	281	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1094	R	282	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1095	R	283	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1096	R	284	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1097	R	285	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1098	R	286	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1099	R	287	33	Resistor	RK73B1JTBK 33ΩJ	1608	KOA	PAGE21_FPGA)	
1100	R	311	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1101	R	312	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1102	R	358	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1103	R	359	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1104	R	360	100K	Resistor	RK73B1JTBK 100KΩJ	1608	KOA	PAGE21_FPGA)	
1105	R	362	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1106	R	364	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1107	R	366	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1108	R	367	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1109	R	368	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1110	R	369	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1111	R	371	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE21_FPGA)	
1112	R	425	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE21_FPGA)	
1113	S	6	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE21_FPGA)	
1114	S	7	4ﾋﾞｯﾄ	DIP SW	CHS-04B		NIDEC COPAL ELECTRONICS	PAGE21_FPGA)	
1115	S	10	-	Switch	SKQGAB	5.2 x 5.2	ALPS	PAGE21_FPGA)	
1116	TP	15	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1117	TP	16	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1118	TP	17	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1119	TP	18	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1120	TP	19	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1121	TP	20	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1122	TP	21	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1123	TP	22	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1124	TP	23	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1125	TP	24	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1126	TP	25	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1127	TP	26	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1128	TP	27	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1129	TP	28	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1130	TP	29	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1131	TP	30	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1132	TP	31	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1133	TP	32	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1134	TP	33	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1135	TP	34	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1136	TP	35	-	Check pin	HK-5-G(White)	2.5 x 1.25	Mac-Eight	PAGE21_FPGA)	
1137	U	26	-	Timer	NE555D	SOP-8	PHILIPS	PAGE21_FPGA)	
1138	U	55	-	FPGA	EP1K50QC208-3	PQFP-208	ALTERA	PAGE21_FPGA)	
1139	U	56	-	Logic	HD74LVC04T	TTP-14DV	Renesas Technology	PAGE21_FPGA)	
1140	U	57	-	Logic	HD74LVC04T	TTP-14DV	Renesas Technology	PAGE21_FPGA)	
1141	U	70	-	Logic	HD74LVC2G74T	TTP-14DV	Renesas Technology	PAGE21_FPGA)	Un-mounting
1142	U	71	-	Logic	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE21_FPGA)	Un-mounting
1143	U	73	-	Logic	HD74LVC00	TTP-14DV	Renesas Technology	PAGE21_FPGA)	
1144	VR	6	0-20K	Trimmer Potentiometers	CT-94W 20KΩ	DIP	NIDEC COPAL ELECTRONICS		
1145	Y	12	80MHZ	Crystal Oscillator	SG-8002CA 80MHZ	-	EPSON	PAGE21_FPGA)	
1146	C	439	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE22_DISP_IF)	
1147	C	440	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE22_DISP_IF)	
1148	C	441	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE22_DISP_IF)	
1149	C	442	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE22_DISP_IF)	
1150	C	494	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE22_DISP_IF)	
1151	CN	19	LCD_IF		22-28-1141		Molex	PAGE17_MOST IF	
1152	R	288	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE22_DISP_IF)	
1153	R	289	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE22_DISP_IF)	Un-mounting
1154	R	290	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE22_DISP_IF)	
1155	R	363	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE22_DISP_IF)	
1156	U	58	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE22_DISP_IF)	
1157	U	61	-	Logic	HD74LVC244AT	TTP-20DA	Renesas Technology	PAGE22_DISP_IF)	
1158	U	72	-	Logic	HD74LVC373A	TTP-20DA	Renesas Technology	PAGE22_DISP_IF)	
1159	VR	4	0-5K	Trimmer Potentiometers	CT-94X 5KΩ	DIP	NIDEC COPAL ELECTRONICS	PAGE23_POWER)	
1160	C	444	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON		
1161	C	445	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1162	C	446	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1163	C	447	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1164	C	448	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1165	C	449	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1166	C	450	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1167	C	451	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1168	C	452	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1169	C	453	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE23_POWER)	
1170	C	454	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1171	C	455	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1172	C	456	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE23_POWER)	
1173	C	457	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1174	C	458	22u	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE23_POWER)	
1175	C	459	22u	Aluminium Electrolytic Capacitors	MVK35VC22MF55	6.6 x 6.6	NIPPON CHEMI-CON	PAGE23_POWER)	
1176	C	460	100 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H101JZ01D	1608	Murata Manufacturing	PAGE23_POWER)	
1177	C	461	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1178	C	462	0.01u	Chip Monolithic Ceramic Capacitors	GRM188B11H103KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1179	C	463	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1180	C	464	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1181	C	488	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE23_POWER)	
1182	CN	23	-	ATX connector	5566-20A		Molex	PAGE23_POWER)	
1183	D	5	-	Diode	1SS355			PAGE23_POWER)	
1184	JP	4	2					PAGE23_POWER)	NOTE
1185	JP	5	2					PAGE23_POWER)	NOTE
1186	LED	17	Y	LED(Y)	FY1111C	1608	Stanley Electric	PAGE23_POWER)	
1187	R	292	100K	Resistor	RK73B1JTBK 100KΩJ	1608	KOA	PAGE23_POWER)	
1188	R	293	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE23_POWER)	
1189	R	294	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE23_POWER)	
1190	R	295	1K	Resistor	RK73B1JTBK 1KΩJ	1608	KOA	PAGE23_POWER)	
1191	R	296	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1192	R	297	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1193	R	298	2K	Resistor	RK73B1JTBK 2KΩJ	1608	KOA	PAGE23_POWER)	
1194	R	299	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1195	R	300	3.3K	Resistor	RK73B1JTBK 3.3KΩJ	1608	KOA	PAGE23_POWER)	
1196	R	301	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1197	R	302	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1198	R	303	100K	Resistor	RK73B1JTBK 100KΩJ	1608	KOA	PAGE23_POWER)	
1199	R	306	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	

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No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
1200	R	343	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE23_POWER)	
1201	S	10	-	Switch	SKQGAB	5.2 x 5.2	ALPS	PAGE23_POWER)	
1202	S	8	-	Switch	SKQGAB	5.2 x 5.2	ALPS	PAGE23_POWER)	
1203	S	9	-	Switch	KSAOV210K		ITT COMPOSANTS	PAGE23_POWER)	
1204	TP	36	-	Check pin	HK-5-G(Red)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1205	TP	37	-	Check pin	HK-5-G(Red)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1206	TP	38	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1207	TP	39	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1208	TP	40	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1209	TP	41	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1210	TP	42	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1211	TP	43	-	Check pin	HK-5-G(Black)	2.5 x 1.25	Mac-Eight	PAGE23_POWER)	
1212	TP	44	-	Check pin	LC-2-G(Red)	DIP	Mac-Eight	PAGE23_POWER)	
1213	U	62	-	Reset IC	MAX825SEUK	SOT-23	MAXIM	PAGE23_POWER)	
1214	U	63	-	Regulator	LMS1585ACT-3.3	TO-220	National Semiconductor	PAGE23_POWER)	
1215	U	64	-	Regulator	LMS1587CT-ADJ	TO-220	National Semiconductor	PAGE23_POWER)	
1216	U	65	-	Logic	HD74ALS74	FP-14DAV	Renesas Technology	PAGE23_POWER)	
1217	U	66	-	Regulator	LP3965EMP-ADJ	SOT-223-5	National Semiconductor	PAGE23_POWER)	
1218	U	67	-	Regulator	LP3965EMP-2.5	SOT-223-5	National Semiconductor	PAGE23_POWER)	
1219	U	69	-	Logic(1G)	HD74LV1G08A	CMPAK-5	Renesas Technology	PAGE23_POWER)	
1220	VR	2	2K	Trimmer Potentiometers	CT-94X 2KΩ	DIP	NIDEC COPAL ELECTRONICS	PAGE23_POWER)	
1221	VR	3	0-5K	Trimmer Potentiometers	CT-94W 5KΩ	DIP	NIDEC COPAL ELECTRONICS	PAGE23_POWER)	
1222	C	465	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1223	C	466	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1224	C	467	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1225	C	468	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE24_AC97_AD1885 IF)	
1226	C	469	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1227	C	470	10u	Chip Monolithic Ceramic Capacitors	C3225JB1A106M	3225	TDK	PAGE24_AC97_AD1885 IF)	
1228	C	471	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1229	C	472	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1230	C	473	22 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1231	C	474	22 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H220JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1232	C	475	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1233	C	476	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1234	C	477	470 p	Chip Monolithic Ceramic Capacitors	GRM1882C1H471JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1235	C	478	1u	Aluminium Electrolytic Capacitors	MVK50VC1MD55	4.3 x 4.3	NIPPON CHEMI-CON	PAGE24_AC97_AD1885 IF)	
1236	C	479	1u	Aluminium Electrolytic Capacitors	MVK50VC1MD55	4.3 x 4.3	NIPPON CHEMI-CON	PAGE24_AC97_AD1885 IF)	
1237	C	480	10u	Aluminium Electrolytic Capacitors	MVK35VC10ME55	5.3 x 5.3	NIPPON CHEMI-CON	PAGE24_AC97_AD1885 IF)	
1238	C	481	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1239	C	482	270p	Chip Monolithic Ceramic Capacitors	GRM1882C1H271JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1240	C	483	270p	Chip Monolithic Ceramic Capacitors	GRM1882C1H271JZ01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1241	C	484	47000p	Chip Monolithic Ceramic Capacitors	GRM188B11E473KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1242	C	485	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1243	C	486	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1244	C	487	1u	Chip Monolithic Ceramic Capacitors	GRM188B11C105KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1245	C	489	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1246	C	490	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1247	C	491	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1248	CN	24	AUX AUDIO IN		53261-0490		Molex	PAGE24_AC97_AD1885 IF)	
1249	FB	36	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1250	FB	37	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE24_AC97_AD1885 IF)	
1251	R	314	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1252	R	315	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1253	R	316	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1254	R	317	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1255	R	318	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1256	R	319	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1257	R	320	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1258	R	321	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1259	R	322	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1260	R	323	4.7K	Resistor	RK73B1JTBK 4.7KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1261	R	324	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1262	R	325	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1263	R	326	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1264	R	327	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1265	R	328	47K	Resistor	RK73B1JTBK 47KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1266	R	329	47K	Resistor	RK73B1JTBK 47KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1267	R	330	100	Resistor	RK73B1JTBK 100ΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1268	R	331	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1269	R	332	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1270	R	333	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1271	R	334	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1272	R	335	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1273	R	336	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1274	R	337	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1275	R	338	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1276	R	339	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1277	R	340	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1278	R	341	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1279	R	342	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE24_AC97_AD1885 IF)	
1280	R	346	10K	Resistor	RK73B1JTBK 10KΩJ	1608	KOA	PAGE24_AC97_AD1885 IF)	
1281	TP	45	-	Check pin	LC-2-G(Red)	DIP	Mac-Eight	PAGE24_AC97_AD1885 IF)	
1282	U	68	AC'97 CODEC		AD1885	LQFP48	ANALOGDEVICES	PAGE24_AC97_AD1885 IF)	
1283	Y	14	24.576MHz	Crystal Oscillator	HC-49/U-S 24.576MHZ	-	KINSEKI	PAGE24_AC97_AD1885 IF)	
1284	C	524	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1285	C	525	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1286	C	526	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1287	C	527	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1288	C	528	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1289	C	529	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1290	C	530	0.1u	Chip Monolithic Ceramic Capacitors	GRM188B11C104KA01D	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1291	FB	43	60	EMI filter	BLM18PG600SN1	1608	Murata Manufacturing	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1292	NR	142	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1293	NR	143	0x4	Network resistors	CN1E4KTBK 0Ω	1005x4	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1294	R	428	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1295	R	429	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1296	R	430	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1297	R	431	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1298	R	432	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1299	R	433	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1300	R	434	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1301	R	435	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1302	R	436	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1303	R	437	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1304	R	438	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1305	R	439	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1306	R	440	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1307	R	441	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1308	R	442	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting

RTS7751R2D Parts List

No.	Reference	No.	Spec	Part	Part Number	Package	Maker	Sheet	Notes
1309	R	443	0	Resistor	RK73Z1JTBK	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1310	R	444	33	Resistor	RK73B1JTBK 33Ω	1608	KOA	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1311	U	78	PCI__CODEC		LM4560VJD	TQFP100	Natinal Semicondactor	PAGE25(PCI_IF(AC97&I2S))	Un-mounting
1312	Y	16	16.93MHZ	Crystal Oscillator	SG-8002CA 16.93MHZ	-	EPSON	PAGE25(PCI_IF(AC97&I2S))	Un-mounting

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