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Connectors

J1 connector

J1 connector's pinout

Pins	Name	Connection	Comments
1	GPIO1_IO00	U2.AG14 U7.23	
2	ENET_TD1/ETH_TRX1_P	U3.5	
3	ENET_TX_CTL	NC	
4	ENET_TD0/ETH_TRX1_N	U3.6	
5	ENET_TXC/LED_LINK10_100	U3.15	
6	ENET_TD2/ETH_TRX0_N	U3.3	
7	ENET_RXC/LED_LINK1000	NC	
8	ENET_TD3/ETH_TRX0_P	U3.2	
9	ENET_RX_CTL/LED_ACT	U3.17	
10	ENET_RD0/ETH_TRX2_P	U3.7	
11	ENET_MDIO	NC	
12	ENET_RD1/ETH_TRX2_N	U3.8	
13	ENET_MDC	NC	
14	ENET_RD2/ETH_TRX3_P	U3.10	
15	NVCC_SNV3_3V3		
16	ENET_RD3/ETH_TRX3_N	U3.11	
17	I2C4_SCL	U2.D13	
18	GND	GND	
19	I2C4_SDA	U2.E13	
20	ONOFF	U2.A25	
21	GND	GND	
22	PMIC_ON_REQ	U2.A24, U5.15	
23	BT_HOST_WAKE	NC	
24	POR_B	U2.B24, U5.25	
25	WIFI_HOST_WAKE	NC	
26	PMIC_STBY_REQ	U2.E24, U5.16	
27	NVCC_3V3		
28	SD2_RESET_B	U2.AB26	
29	SD2_WP	U2.AA27	
30	GND	GND	
31	NVCC_ENET		
32	NAND_DATA01/QSPIA_DATA1	U2.K24	
33	GND	GND	
34	NAND_CE0_B/QSPIA_SS0_B	U2.N24	
35	NAND_DATA07/QSPIB_DATA3	U2.H27	
36	NAND_READY_B	NC	
37	NAND_DATA06/QSPIB_DATA2	U2.J27	

Pins	Name	Connection	Comments
38	NAND_DQS/QSPIA_DQS	U2.R22	
39	NAND_DATA04/QSPIB_DATA0	NC	
40	NAND_ALE/QSPIA_SCLK	U2.N22	
41	NAND_RE_B/QSPIB_DQS	U2.AF11	
42	NAND_WP_B	NC	
43	NAND_DATA05/QSPIB_DATA1	NC	
44	NAND_WE_B	NC	
45	NAND_CLE/QSPIB_SCLK	U2.H26	
46	NAND_DATA03/QSPIA_DATA3	U2.N23	
47	NAND_CE2_B/QSPIB_SS0_B	U2.J26	
48	NAND_DATA00/QSPIA_DATA0	U2.P23	
49	GND	GND	
50	NAND_DATA02/QSPIA_DATA2	U2.K23	
51	PCIE1_REF_CLKN	U2.B21	
52	GND	GND	
53	PCIE1_REF_CLKP	U2.A21	
54	PCIE2_REF_CLKN	NC	
55	GND	GND	
56	PCIE2_REF_CLKP	NC	
57	PCIE1_TXN	U2.A20	
58	GND	GND	
59	PCIE1_TXP	U2.B20	
60	PCIE1_RXN	U2.A19	
61	GND	GND	
62	PCIE1_RXP	U2.B19	
63	PCIE2_RXN	NC	
64	GND	GND	
65	PCIE2_RXP	NC	
66	PCIE2_TXN	NC	
67	GND	GND	
68	PCIE2_TXP	NC	
69	CSI_P1_DP3	U2.B18	
70	GND	GND	
71	CSI_P1_DN3	U2.A18	
72	EN_VBAT_3V3	NC	
73	CSI_P1_DP1	U2.B15	
74	SD2_CD_B	U2.AA26	
75	CSI_P1_DN1	U2.A15	
76	GND	GND	
77	CSI_P1_DN2	U2.A17	
78	SD2_DATA2	U2.V24	
79	CSI_P1_DP2	U2.B17	
80	SD2_DATA1	U2.AB24	
81	CSI_P1_DP0	U2.B14	

Pins	Name	Connection	Comments
82	SD2_CLK	U2.W23	
83	CSI_P1_DN0	U2.A14	
84	SD2_DATA3	U2.V23	
85	GND	GND	
86	SD2_DATA0	U2.AB23	
87	CSI_P1_CKP	U2.B16	
88	SD2_CMD	U2.W24	
89	CSI_P1_CKN	U2.A16	
90	NVCC_SD2_1V8_3V3		

J2 connector

J2 connector's pinout

Pins	Name	Connection	Comments
1	JTAG_TCK	U2.F26	
2	SAI3_RXD/GPT1_COMPARE1/SAI5_RXD0/HPLOUT	U2.AF7	
3	JTAG_TMS	U2.F27	
4	SAI3_TXC/HPROUT	U2.AG6	
5	JTAG_TRST_B	U2.C27	
6	SAI3_RXFS/HPOUTFB	U2.AG8	
7	JTAG_TDI	U2.E27	
8	SAI3_RXC/LINEIN1_LP	U2.AG7	
9	JTAG_TDO	U2.E26	
10	SAI3_TXFS/LINEIN1_RP	U2.AC6	
11	BOOT_MODE1	U2.G27	
12	AGND	GND	
13	BOOT_MODE0	U2.G26	
14	SAI3_TXD/DMIC_CLK	U2.AF6	
15	HDMI_DDC_SCL	NC	
16	SAI3_MCLK/DMIC_DATA_1V8	U2.AD6	
17	HDMI_DDC_SDA	NC	
18	GND	GND	
19	HDMI_CEC	NC	
20	ECSPI2_MOSI/UART4_TXD	U2.B8	
21	HDMI_HPD	NC	
22	ECSPI2_MISO/UART4_CTS_B	U2.A8	
23	GND	GND	
24	ECSPI2_SCLK/UART4_RXD	U2.E6	
25	HDMI_AUX_P	NC	
26	ECSPI2_SS0/UART4_RTS_B	U2.A6	
27	HDMI_AUX_N	NC	
28	GPIO1_IO02/WDOG_B	U2.AG13	
29	HDMI_TX_M_LN_1	NC	
30	I2C2_SDA	U2.D9	
31	HDMI_TX_P_LN_1	NC	

Pins	Name	Connection	Comments
32	I2C2_SCL	U2.D10	
33	HDMI_TX_P_LN_0	NC	
34	SAI5_RXFS	U2.AB15	
35	HDMI_TX_M_LN_0	NC	
36	SAI5_RXD0	U2.AD18	
37	HDMI_REFCLK_N	NC	
38	SAI5_RXD2	U2.AD13	
39	HDMI_REFCLK_P	NC	
40	SAI5_RXC	U2.AC15	
41	VDD_PHY_1V8	NC	
42	SAI5_RXD1	U2.AC14	
43	HDMI_TX_P_LN_2	NC	
44	SAI5_RXD3	U2.AC13	
45	HDMI_TX_M_LN_2	NC	
46	SAI5_MCLK	U2.AD15	
47	GND	GND	
48	SAI2_RXFS	U2.AC19	
49	HDMI_TX_P_LN_3	NC	
50	SAI2_RXC	U2.AB22	
51	HDMI_TX_M_LN_3	NC	
52	SAI2_TXFS	U2.AD23	
53	GND	GND	
54	SAI2_MCLK	U2.AD19	
55	SAI1_RXFS	U2.AG16	
56	SAI2_TXC	U2.AD22	
57	SAI1_RXC	U2.AF16	
58	SAI2_RXD0	U2.AC24	
59	SAI1_RXD1/BOOT_CFG01	U2.AF15	
60	SAI2_TXD0	U2.AC22	
61	SAI1_RXD0/BOOT_CFG00	U2.AG15	
62	SAI1_RXD3/BOOT_CFG03	U2.AF17	
63	SAI1_RXD2/BOOT_CFG02	U2.AG17	
64	SAI1_TXFS	U2.AB19	
65	SAI1_RXD4/BOOT_CFG04	U2.AG18	
66	SAI1_RXD6/BOOT_CFG06	U2.AG19	
67	SAI1_TXD1/BOOT_CFG09	U2.AF20	
68	SAI1_RXD7/BOOT_CFG07	U2.AF19	
69	SAI1_RXD5/BOOT_CFG05	U2.AF18	
70	SAI1_TXD0/BOOT_CFG08	U2.AG20	
71	SAI1_TXD5/BOOT_CFG13	U2.AF22	
72	SAI1_TXC	U2.AC18	
73	SAI1_TXD3/BOOT_CFG11	U2.AF21	
74	SAI1_TXD4/BOOT_CFG12	U2.AG22	
75	GND	GND	

Pins	Name	Connection	Comments
76	SAI1_TXD7/BOOT_CFG15	U2.AF23	
77	ECSPI1_SCLK/UART3_RX	U2.D6	
78	SAI1_TXD2/BOOT_CFG10	U2.AG21	
79	ECSPI1_SS0/UART3_RTS_B	U2.B6	
80	SAI1_TXD6/BOOT_CFG14	U2.AG23	
81	ECSPI1_MISO/UART3_CTS_B	U2.A7	
82	SAI1_MCLK	U2.AB18	
83	ECSPI1_MOSI/UART3_TX	U2.B7	
84	GND	GND	
85	UART2_RXD/ECSPI3_MISO	U2.F15	
86	UART2_TXD/ECSPI3_SS0	U2.E15	
87	UART3_RXD/UART1_CTS_B	U2.E18	
88	UART1_RXD/ECSPI3_SCLK	U2.E14	
89	UART3_TXD/UART1_RTS_B	U2.D18	
90	UART1_TXD/ECSPI3_MOSI	U2.F13	

J3 connector

J3 connector's pinout

Pins	Name	Connection	Comments
1	UART4_TXD	U2.F18	
2	LVDS1_TX0_P	U9.C8	
3	UART4_RXD	U2.F19	
4	LVDS1_TX0_N	U9.C9	
5	LVDS1_TX2_P	U9.E8	
6	LVDS1_TX1_P	U9.D8	
7	LVDS1_TX2_N	U9.E9	
8	LVDS1_TX1_N	U9.D9	
9	GND	GND	
10	GND	GND	
11	LVDS1_CLK_P	U9.F8	
12	DSI_TX0_P/LVDS2_TX0_P	U12.17	
13	LVDS1_CLK_N	U9.F9	
14	DSI_TX0_N/LVDS2_TX0_N	U12.16	
15	GND	GND	
16	DSI_TX1_P/LVDS2_TX1_P	U12.15	
17	LVDS1_TX3_P	U9.G8	
18	DSI_TX1_N/LVDS2_TX1_N	U12.14	
19	LVDS1_TX3_N	U9.G9	
20	DSI_TX3_P/LVDS2_TX3_P	U13.12	
21	GND	GND	
22	DSI_TX3_N/LVDS2_TX3_N	U13.3	
23	DSI_TX2_P/LVDS2_CLK_P	U13.15	
24	GND	GND	
25	DSI_TX2_N/LVDS2_CLK_N	U13.14	

Pins	Name	Connection	Comments
26	USB2_VBUS	U2.F23	
27	GND	GND	
28	SPDIF_RX	U2.AG9	
29	DSI_CLK_N/LVDS2_TX2_N	U13.16	
30	GPIO1_IO11/USB2_OTG_ID/PMIC_READY	U2.AC10	
31	DSI_CLK_P/LVDS2_TX2_P	U13.17	
32	SPDIF_EXT_CLK	U2.AF8	
33	GND	GND	
34	GND	GND	
35	USB2_RXN	NC	
36	SPDIF_TX	U2.AF9	
37	USB2_RXP	NC	
38	GPIO1_IO15/USB2_OTG_OC	U2.AB9	
39	GND	GND	
40	GPIO1_IO13/USB1_OTG_OC	U2.AD9	
41	USB2_TXN	NC	
42	I2C3_SDA	U2.F10	
43	USB2_TXP	NC	
44	USB2_ID	U2.D23	
45	GND	GND	
46	I2C3_SCL	U2.E10	
47	USB2_DP	U2.B23	
48	GPIO1_IO14/USB2_OTG_PWR	U2.AC9	
49	USB2_DN	U2.A23	
50	GPIO1_IO12/USB1_OTG_PWR	U2.AB10	
51	GND	GND	
52	GPIO1_IO10/USB1_OTG_ID	U2.AD10	
53	USB1_RXN	NC	
54	GPIO1_IO03/USDHC1_VSELECT	U2.AF13	
55	USB1_RXP	NC	
56	USB1_ID	U2.D22	
57	GND	GND	
58	GPIO1_IO06	U2.AG11	
59	USB1_TXN	NC	
60	GPIO1_IO08	U2.AG10	
61	USB1_TXP	NC	
62	GPIO1_IO05	U2.AF12	
63	GND	GND	
64	GPIO1_IO01	U2.AF14	
65	USB1_DP	U2.B22	
66	USB1_VBUS	U2.F22	
67	USB1_DN	U2.A22	
68	GND	GND	
69	VBAT_3V3	NC	

Pins	Name	Connection	Comments
70	CSI_P2_CKN	U2.V27	
71	VBAT	VSYS	
72	CSI_P2_CKP	U2.V26	
73	VBAT	VSYS	
74	GND	GND	
75	VBAT	VSYS	
76	CSI_P2_DN3	U2.Y26	
77	VBAT	VSYS	
78	CSI_P2_DP3	U2.Y27	
79	VBAT	VSYS	
80	CSI_P2_DN1	U2.U26	
81	VBAT	VSYS	
82	CSI_P2_DP1	U2.U27	
83	VBAT	VSYS	
84	CSI_P2_DN0	U7.23	
85	VBAT	VSYS	
86	CSI_P2_DP0	U2.R23	
87	VBAT	VSYS	
88	CSI_P2_DN2	U2.T26	
89	VBAT	VSYS	
90	CSI_P2_DP2	U2.T27	