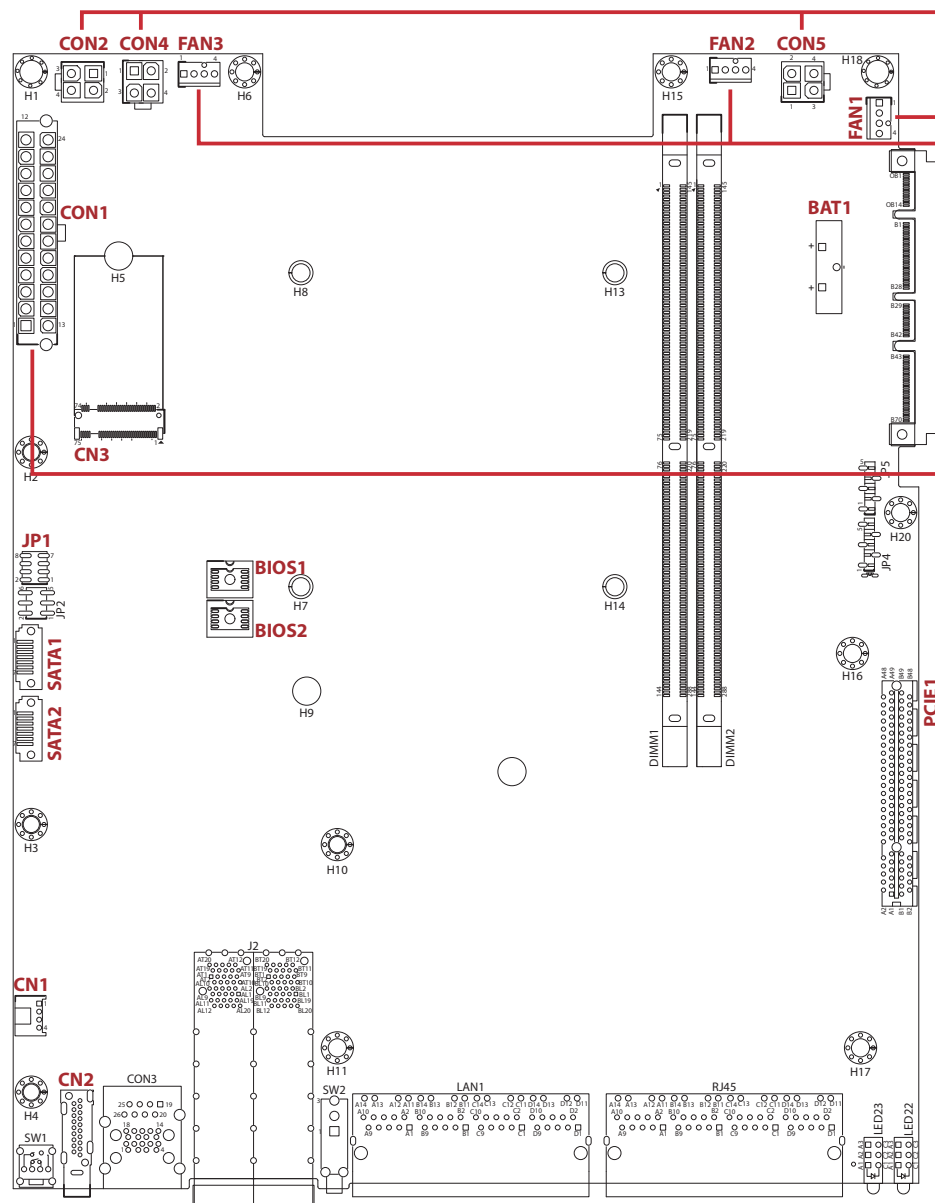


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CON2, CON4, CON5: Power Connector (only 12V)

Pin	Signal	Pin	Signal
1	GND	3	+P12V
2	GND	4	+P12V

FAN3: 4P Fan Connector

Pin	Signal
1	GND
2	+P12V_FAN3
3	EC_FAN3_TACH_R
4	EC_FAN3_PWM_R

FAN2: 4P Fan Connector

Pin	Signal
1	GND
2	+P12V_FAN2
3	EC_FAN2_TACH_R
4	EC_FAN2_PWM_R

FAN1: 4P Fan Connector

Pin	Signal
1	GND
2	+P12V_FAN1
3	EC_FAN1_TACH_R
4	EC_FAN1_PWM_R

CON1: Power Connector

Pin	Signal	Pin	Signal
13	+P3V3	1	+P3V3
14	NC	2	+P3V3
15	GND	3	GND
16	FM_PS_EN_PSU_N	4	+P5V
17	GND	5	GND
18	GND	6	+P5V
19	GND	7	GND
20	NC	8	PS_PWROK_R
21	+P5V	9	+P5V_AUX
22	+P5V	10	+P12V
23	+P5V	11	+P12V
24	GND	12	+P3V3

111



Diagram of a vertical busbar assembly. The assembly consists of a central vertical busbar with several terminal blocks attached. The terminal blocks are labeled OB1, OB14, B1, B28, B29, B42, B43, and B70. The busbar is shown as a series of horizontal segments connected by vertical segments. The terminal blocks are shown as rectangular blocks with multiple terminals. The diagram is a technical drawing of a component, likely a part of a power distribution system.

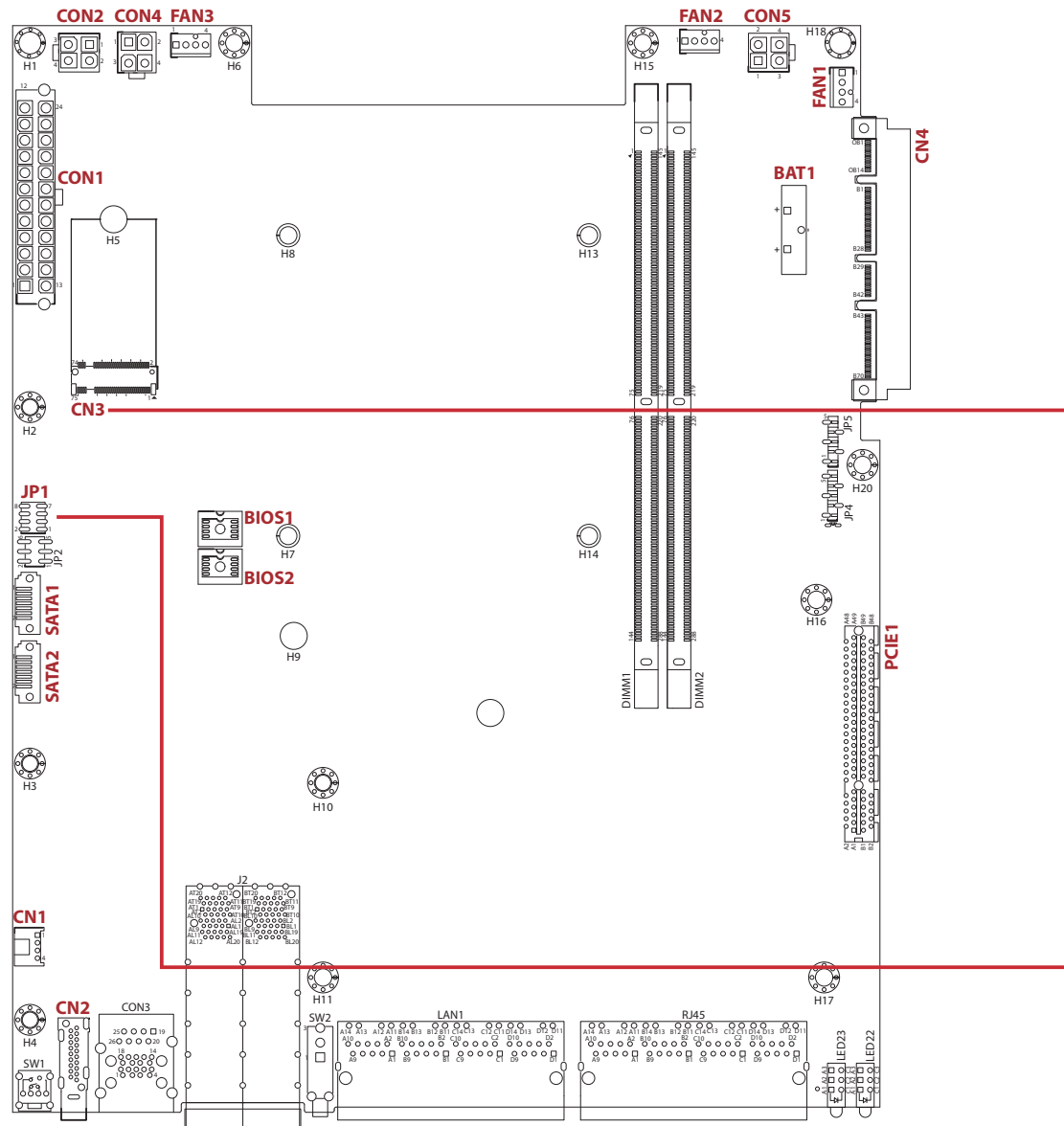
Pin	Signal
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111



1

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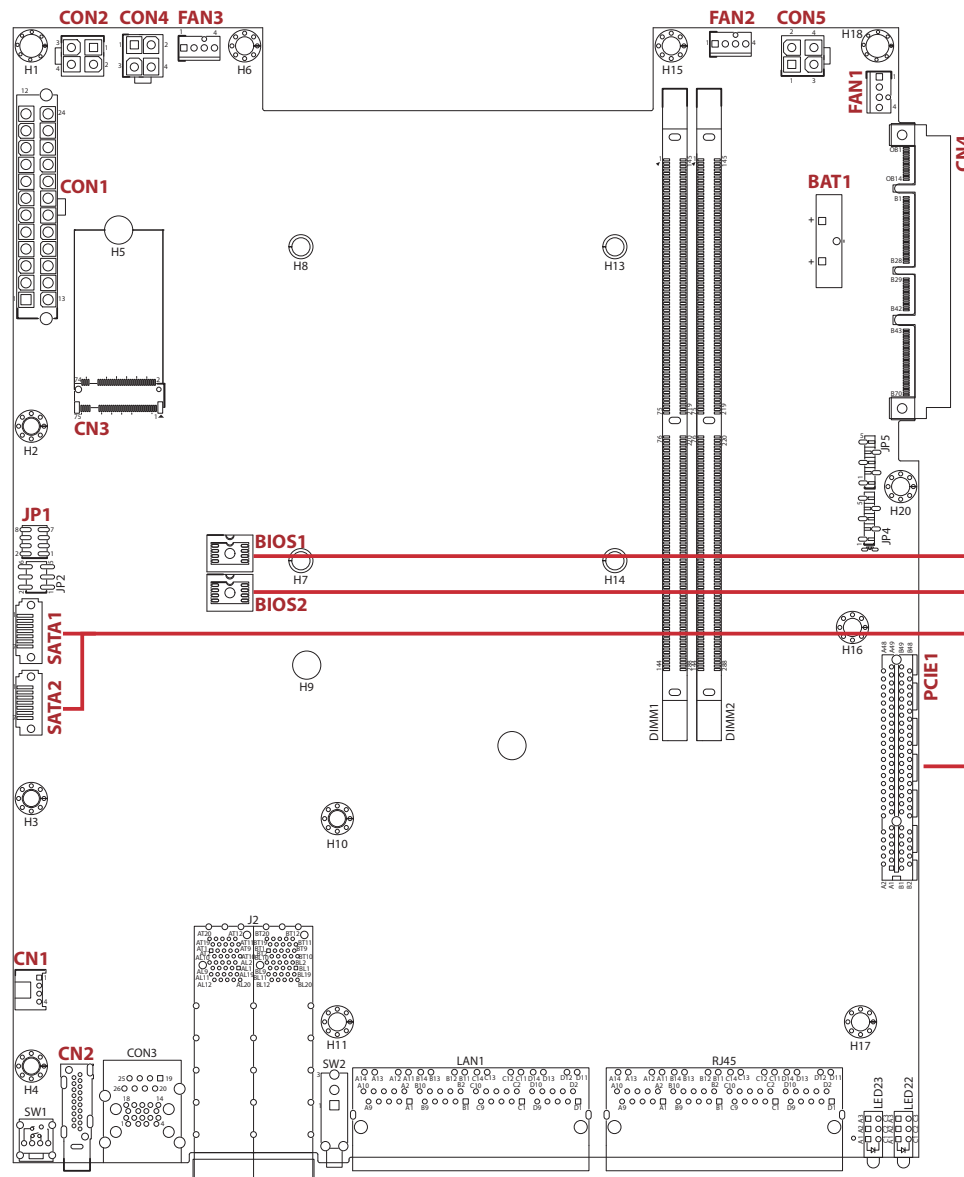
CN3: M.2 Key M PCIe

Pin	Signal	Pin	Signal
1	NGFF_CONFIG_3	2	+P3V3_NGFF
3	GND	4	+P3V3_NGFF
5	PCIE_X4_RXN3	6	NC
7	PCIE_X4_RXP3	8	NC
9	GND	10	NGFF_DSSN
11	PCIE_X4_TXN3	12	+P3V3_NGFF
13	PCIE_X4_TXP3	14	+P3V3_NGFF
15	GND	16	+P3V3_NGFF
17	PCIE_X4_RXN2	18	+P3V3_NGFF
19	PCIE_X4_RXP2	20	NC
21	NGFF_CONFIG_0	22	NC
23	PCIE_X4_TXN2	24	NC
25	PCIE_X4_TXP2	26	NC
27	GND	28	NC
29	PCIE_X4_RXN1	30	NC
31	PCIE_X4_RXP1	32	NC
33	GND	34	NC
35	PCIE_X4_TXN1	36	NC
37	PCIE_X4_TXP1	38	FM_M2_1_SSD_DEVSLP
39	GND	40	NC
41	PCIE_X4_RXN0	42	NC
43	PCIE_X4_RXP0	44	NC
45	GND	46	NC
47	PCIE_X4_TXN0	48	NC
49	PCIE_X4_TXP0	50	PLTRST_N_BUF
51	GND	52	SRCCLKREQ_N_2
53	PCIE_NVMe_CLKN	54	FM_LAN_WAKE_M2_N
55	PCIE_NVMe_CLKP	56	NC
57	GND	58	NC
59	NA	60	NA
61	NA	62	NA
63	NA	64	NA
65	NA	66	NA
67	NC	68	PCH_SUSCLK_33K_R_SSD
69	PEDET	70	+P3V3_NGFF
71	GND	72	+P3V3_NGFF
73	GND	74	+P3V3_NGFF
75	NGFF_CONFIG_2		

JP1: Clear CMOS

Pin	Signal	Pin	Signal
1	NC	2	+P3V3_EC
3	RTCRST_N	4	AT_ATX_SEL
5	GND	6	GND
7	+P3V3_RTC	8	FP_PWR_BTN_N

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BIOS1: BIOS Socket

Pin	Signal	Pin	Signal
1	BIOS0_CS0#	5	+P3V3_AUX
2	BIOS0_MISO	6	BIOS0_IO3
3	BIOS0_IO2	7	BIOS0_SCK
4	GND	8	BIOS0_MOSI

BIOS2: BIOS Socket

Pin	Signal	Pin	Signal
1	BIOS1_CS0#	5	+P3V3_AUX
2	BIOS1_MISO	6	BIOS1_IO3
3	BIOS1_IO2	7	BIOS1_SCK
4	GND	8	BIOS1_MOSI

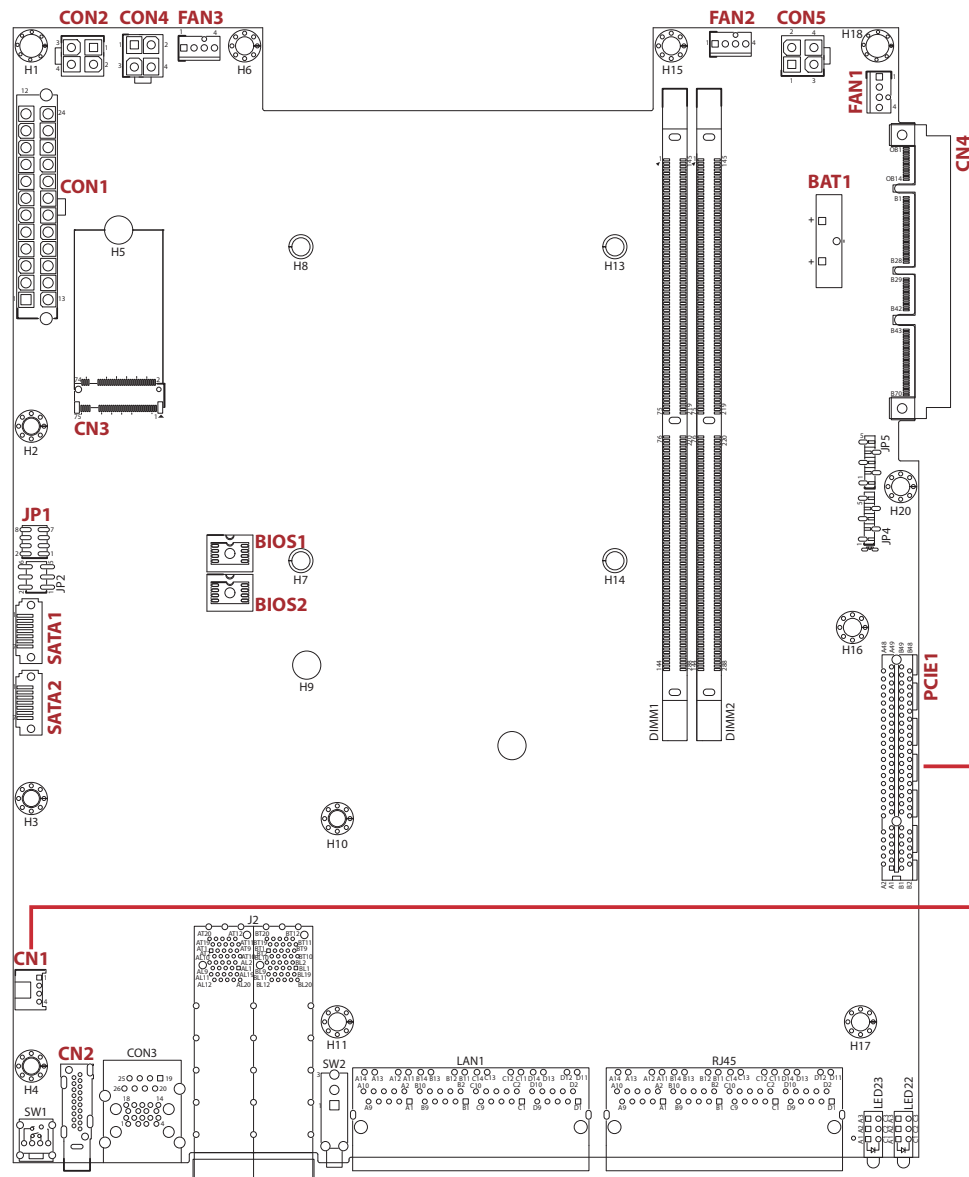
SATA1 SATA2: SATA Connect

Pin	Signal
1	GND
2	SATA_TX_DP
3	SATA_TX_DN
4	GND
5	SATA_RX_DN
6	SATA_RX_DP
7	GND

PCIE1: PCIe Slot

Pin	Signal	Pin	Signal
A1	GND	B1	+P12V
A2	+P12V	B2	+P12V
A3	+P12V	B3	+P12V
A4	GND	B4	+P12V
A5	NC	B5	+P12V
A6	NC	B6	+P12V
A7	NC	B7	NC
A8	NC	B8	+P3V3
A9	+P3V3	B9	NC
A10	+P3V3	B10	+P3V3_AUX
A11	DB_RST_N	B11	+P3V3_AUX
A12	GND	B12	NC
A13	PCIE_CLK_SLOT_P	B13	GND
A14	PCIE_CLK_SLOT_N	B14	PCIE_LAN16_TXP
A15	GND	B15	PCIE_LAN16_TXN
A16	PCIE_LAN16_RXP	B16	GND
A17	PCIE_LAN16_RXN	B17	NC
A18	GND	B18	GND
A19	NC	B19	PCIE_LAN15_TXP
A20	GND	B20	PCIE_LAN15_TXN

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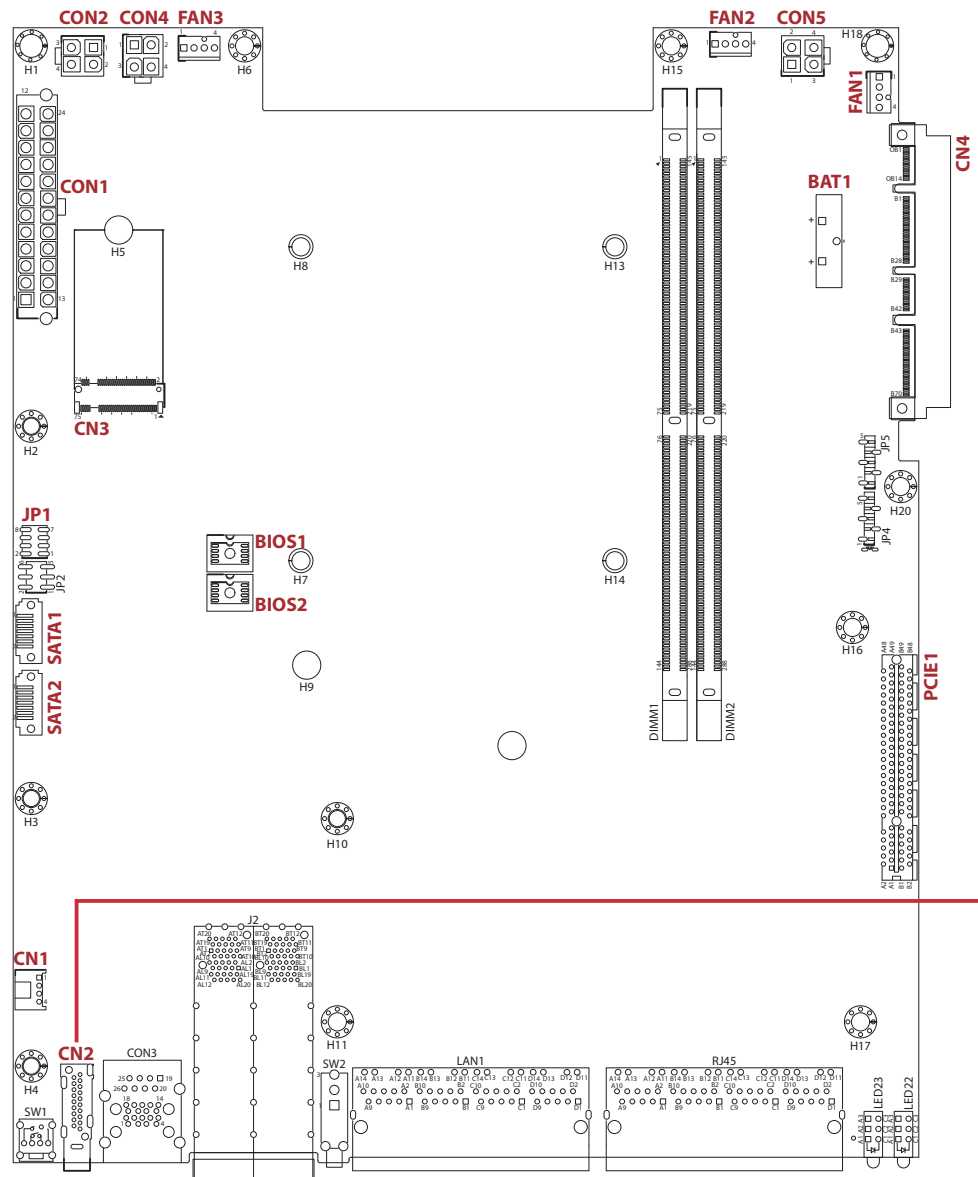
PCIE1: PCIe Slot

Pin	Signal	Pin	Signal
A21	PCIE_LAN15_RXP	B21	GND
A22	PCIE_LAN15_RXN	B22	GND
A23	GND	B23	PCIE_LAN14_TXP
A24	GND	B24	PCIE_LAN14_TXN
A25	PCIE_LAN14_RXP	B25	GND
A26	PCIE_LAN14_RXN	B26	GND
A27	GND	B27	PCIE_LAN13_TXP
A28	GND	B28	PCIE_LAN13_TXN
A29	PCIE_LAN13_RXP	B29	GND
A30	PCIE_LAN13_RXN	B30	GND
A31	NC	B31	NC
A32	NC	B32	GND
A33	NC	B33	PCIE_LAN12_TXP
A34	GND	B34	PCIE_LAN12_TXN
A35	PCIE_LAN12_RXP	B35	GND
A36	PCIE_LAN12_RXN	B36	GND
A37	GND	B37	PCIE_LAN11_TXP
A38	GND	B38	PCIE_LAN11_TXN
A39	PCIE_LAN11_RXP	B39	GND
A40	PCIE_LAN11_RXN	B40	GND
A41	GND	B41	PCIE_LAN10_TXP
A42	GND	B42	PCIE_LAN10_TXN
A43	PCIE_LAN10_RXP	B43	GND
A44	PCIE_LAN10_RXN	B44	GND
A45	GND	B45	PCIE_LAN9_TXP
A46	GND	B46	PCIE_LAN9_TXN
A47	PCIE_LAN9_RXP	B47	GND
A48	PCIE_LAN9_RXN	B48	NC
A49	GND	B49	GND

CN1: LCM Slot

Pin	Signal
1	GND
2	SP_LCM_RXD
3	SP_LCM_TXD
4	+P5V

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● CN2: HDMI Connector

Pin	Signal
1	HDMI_DATA2_P_C
2	GND
3	HDMI_DATA2_N_C
4	HDMI_DATA1_P_C
5	GND
6	HDMI_DATA1_N_C
7	HDMI_DATA0_P_C
8	GND
9	HDMI_DATA0_N_C
10	HDMI_CLK_P_C
11	GND
12	HDMI_CLK_N_C
13	NC
14	NC
15	HDMI_CLK
16	HDMI_DAT
17	GND
18	HDMI_PWR_C
19	HDMI_HPD_C