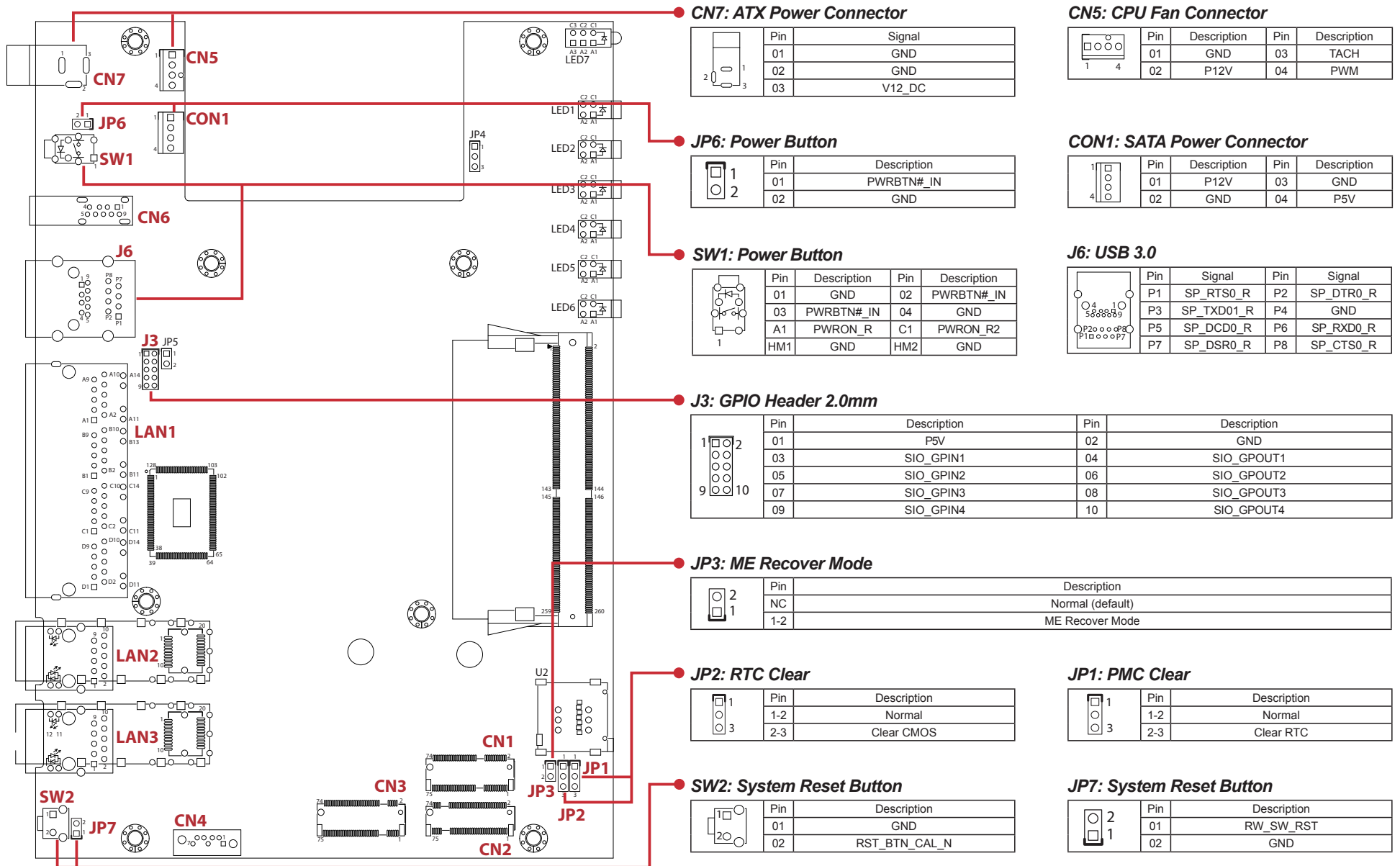


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CN7: ATX Power Connector

Pin	Signal
01	GND
02	GND
03	V12_DC

CN5: CPU Fan Connector

Pin	Description	Pin	Description
01	GND	03	TACH
02	P12V	04	PWM

JP6: Power Button

Pin	Description
01	PWRBTN#_IN
02	GND

CON1: SATA Power Connector

Pin	Description	Pin	Description
01	P12V	03	GND
02	GND	04	P5V

SW1: Power Button

Pin	Description	Pin	Description
01	GND	02	PWRBTN#_IN
03	PWRBTN#_IN	04	GND
A1	PWRON_R	C1	PWRON_R2
HM1	GND	HM2	GND

J6: USB 3.0

Pin	Signal	Pin	Signal
P1	SP_RTS0_R	P2	SP_DTR0_R
P3	SP_TXD01_R	P4	GND
P5	SP_DCD0_R	P6	SP_RXD0_R
P7	SP_DSR0_R	P8	SP_CTS0_R

J3: GPIO Header 2.0mm

Pin	Description	Pin	Description
01	P5V	02	GND
03	SIO_GPIN1	04	SIO_GPOUT1
05	SIO_GPIN2	06	SIO_GPOUT2
07	SIO_GPIN3	08	SIO_GPOUT3
09	SIO_GPIN4	10	SIO_GPOUT4

JP3: ME Recover Mode

Pin	Description
NC	Normal (default)
1-2	ME Recover Mode

JP2: RTC Clear

Pin	Description
1-2	Normal
2-3	Clear CMOS

JP1: PMC Clear

Pin	Description
1-2	Normal
2-3	Clear RTC

SW2: System Reset Button

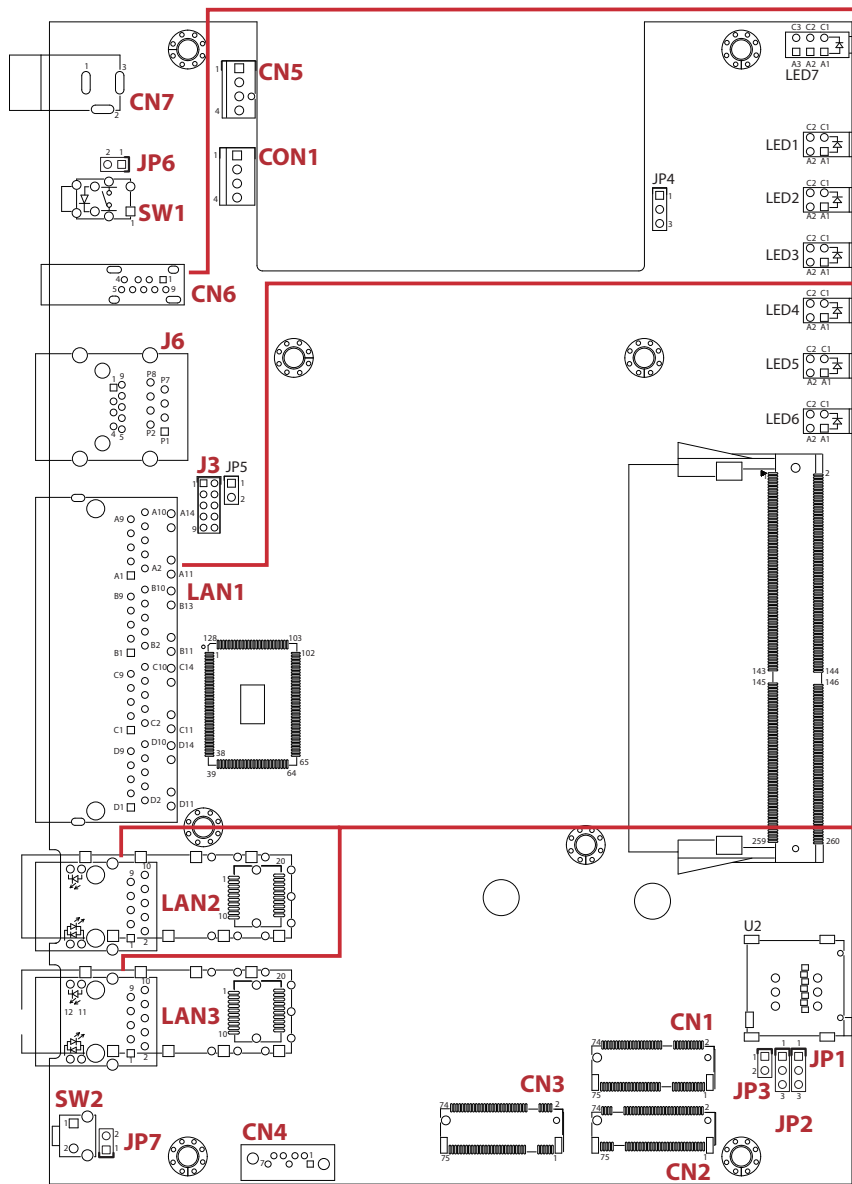
Pin	Description
01	GND
02	RST_BTN_CAL_N

JP7: System Reset Button

Pin	Description
01	RW_SW_RST
02	GND



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CN6: USB 3.0

Pin	Signal	Pin	Signal
01	P5V	08	USB3_TX_DN
02	USB2_DN	09	USB3_TX_DP
03	USB2_DP	MH1	GND_chassis
04	GND	MH2	GND_chassis
05	USB3_RX_DN	MH3	NC
06	USB3_RX_DP	MH4	NC
07	GND		

LAN1: LAN1-LAN4

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
A1	PORT1_TX0_P	B1	PORT2_TX0_P	C1	PORT3_TX0_P	D1	PORT4_TX0_P
A2	PORT1_TX0_N	B2	PORT2_TX0_N	C2	PORT3_TX0_N	D2	PORT4_TX0_N
A3	PORT1_TX1_P	B3	PORT2_TX1_P	C3	PORT3_TX1_P	D3	PORT4_TX1_P
A4	PORT1_TX1_N	B4	PORT2_TX1_N	C4	PORT3_TX1_N	D4	PORT4_TX1_N
A5	PORT1_CT1	B5	PORT2_CT1	C5	PORT3_CT1	D5	PORT4_CT1
A6	PORT1_CT2	B6	PORT2_CT2	C6	PORT3_CT2	D6	PORT4_CT2
A7	PORT1_TX2_P	B7	PORT2_TX2_P	C7	PORT3_TX2_P	D7	PORT4_TX2_P
A8	PORT1_TX2_N	B8	PORT2_TX2_N	C8	PORT3_TX2_N	D8	PORT4_TX2_N
A9	PORT1_TX3_P	B9	PORT2_TX3_P	C9	PORT3_TX3_P	D9	PORT4_TX3_P
A10	PORT1_TX3_N	B10	PORT2_TX3_N	C10	PORT3_TX3_N	D10	PORT4_TX3_N
A11	PORT1_LINK_1000M_N	B11	PORT2_LINK_1000M_N	C11	PORT3_LINK_1000M_N	D11	PORT4_LINK_1000M_N
A12	PORT1_LINK_100M_N	B12	PORT2_LINK_100M_N	C12	PORT3_LINK_100M_N	D12	PORT4_LINK_100M_N
A13	P3V3_LED	B13	P3V3_LED	C13	P3V3_LED	D13	P3V3_LED
A14	PORT1_ACT_N	B14	PORT2_ACT_N	C14	PORT3_ACT_N	D14	PORT4_ACT_N
MH1	GND_chassis	MH2	GND_chassis	NH1	NC	NH2	NC

LAN2: LAN5

Pin	Signal	Pin	Signal
01	PORT5_TX0_P	10	PORT5_TX3_N
02	PORT5_TX0_N	11	P3V3_LED
03	PORT5_TX1_P	12	PORT5_ACT_N
04	PORT5_TX1_N	13	PORT5_LINK_100M_N
05	PORT5_CT1	14	PORT5_LINK_1000M_N
06	PORT5_CT2	MH1	GND_chassis
07	PORT5_TX2_P	MH1	GND_chassis
08	PORT5_TX2_N	NH1	NC
09	PORT5_TX3_P	NH2	NC

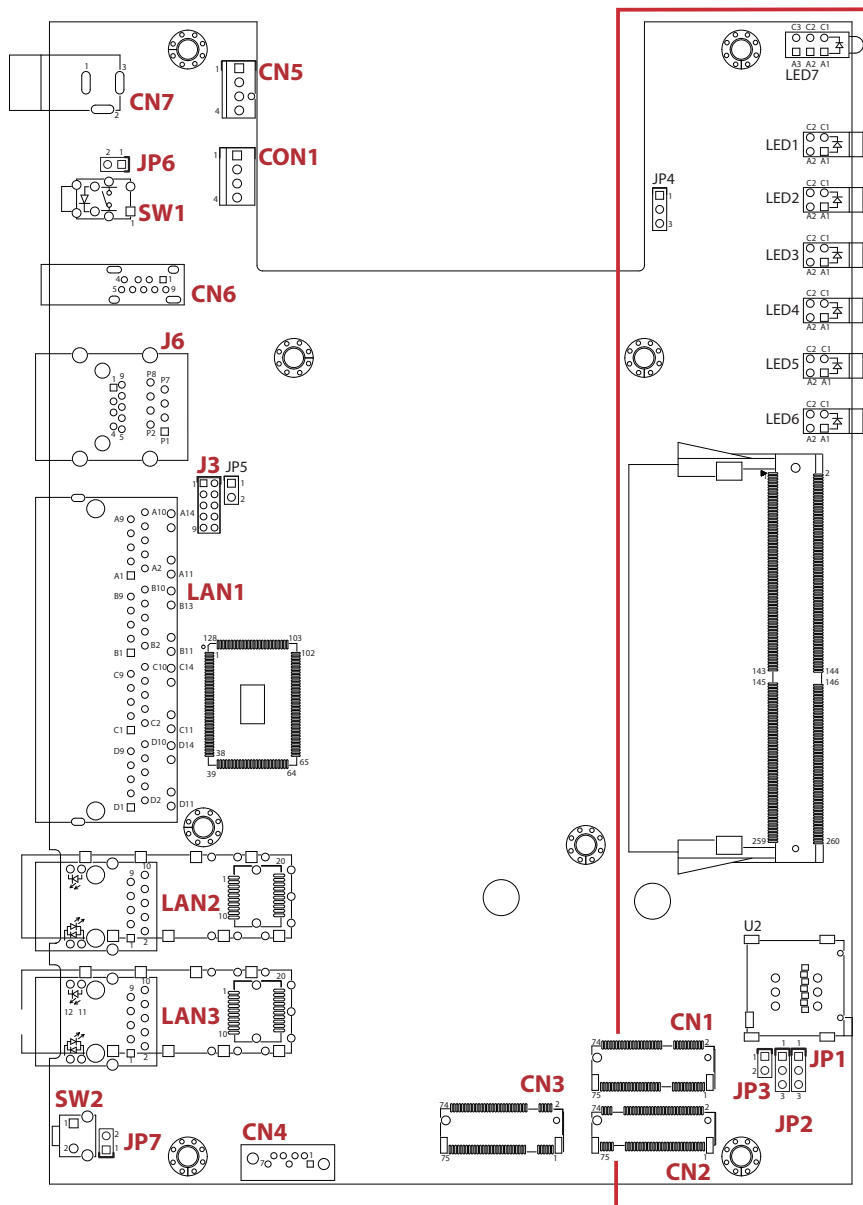
LAN3: LAN6

Pin	Signal	Pin	Signal
01	PORT6_TX0_P	10	PORT6_TX3_N
02	PORT6_TX0_N	11	P3V3_LED
03	PORT6_TX1_P	12	PORT6_ACT_N
04	PORT6_TX1_N	13	PORT6_LINK_100M_N
05	PORT6_CT1	14	PORT6_LINK_1000M_N
06	PORT6_CT2	MH1	GND_chassis
07	PORT6_TX2_P	MH1	GND_chassis
08	PORT6_TX2_N	NH1	NC
09	PORT6_TX3_P	NH2	NC

CN4: SATA Connector

Pin	Description	Pin	Description
01	GND	05	SATA_RX_DN
02	SATA_TX_DP	06	SATA_RX_DP
03	SATA_TX_DN	07	GND
04	GND		

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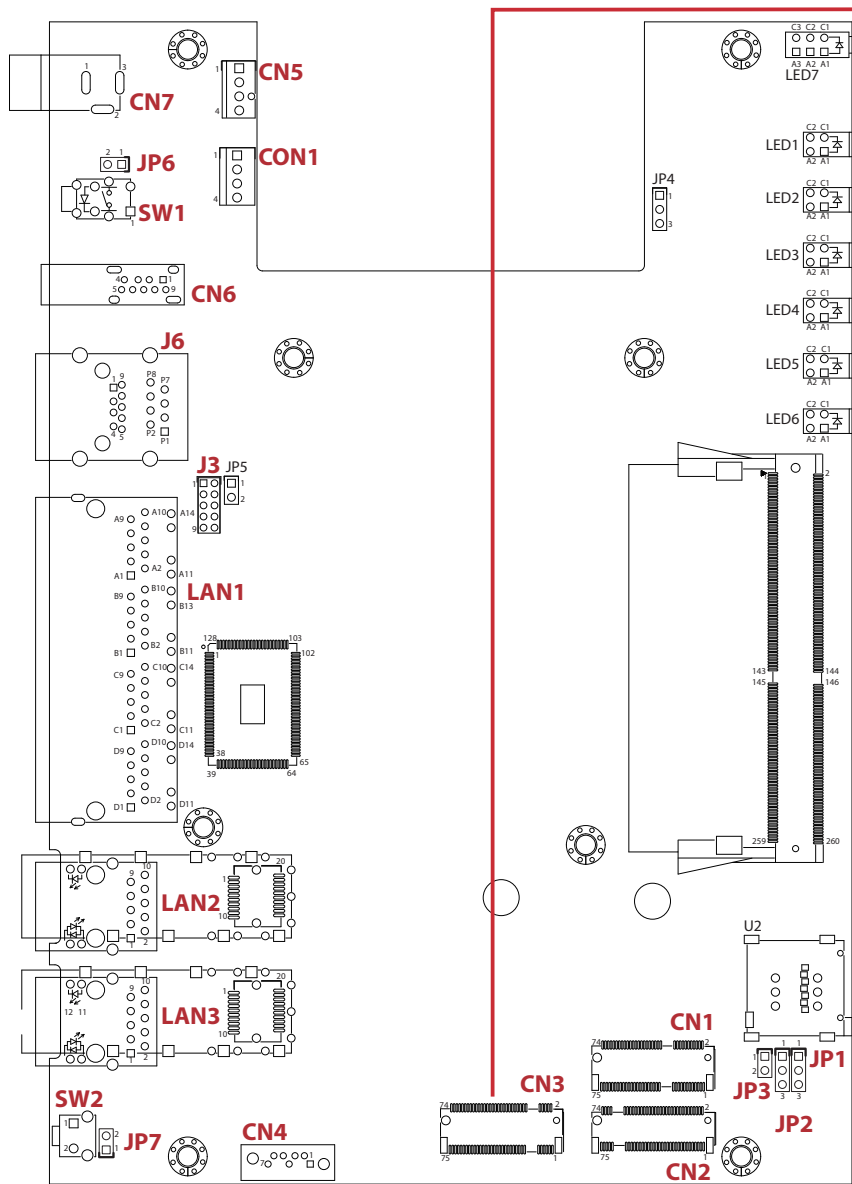
CN1: M.2 Wi-Fi E-Key Connector

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
01	GND	20	NC	39	GND	58	SMBUS_DATA
02	P3V3	21	NC	40	NC	59	NC
03	USB2_DP	22	NC	41	PCIE_RX_DP	60	SMBUS_CLK
04	P3V3	23	NC	42	NC	61	NC
05	USB2_DN	24	E KEY	43	PCIE_RX_DN	62	NC
06	NC	25	E KEY	44	M2_COEX3 (NC)	63	GND
07	GND	26	E KEY	45	GND	64	NC
08	NC	27	E KEY	46	M2_COEX2 (NC)	65	NC
09	NC	28	E KEY	47	CLK_100M_DP	66	NC
10	NC	29	E KEY	48	M2_COEX1 (NC)	67	NC
11	NC	30	E KEY	49	CLK_100M_DN	68	NC
12	NC	31	E KEY	50	SOC_SUSCLK	69	GND
13	NC	32	NC	51	GND	70	NC
14	NC	33	GND	52	SOC_PLTRST_N	71	NC
15	NC	34	NC	53	CLKREQ_PCIE_N	72	P3V3
16	NC	35	PCIE_TX_DP	54	W_DISABLE2_N(always high)	73	NC
17	NC	36	NC	55	PCIE_WAKE_N(always high)	74	P3V3
18	GND	37	PCIE_TX_DN	56	W_DISABLE1_N	75	GND
19	NC	38	NC	57	GND		

CN2: M.2 SSD M-Key SATA Connector

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
01	GND	20	NC	39	GND	58	NC
02	P3V3	21	NC	40	NC	59	M KEY
03	GND	22	NC	41	SATA_RX_DP	60	M KEY
04	P3V3	23	NC	42	NC	61	M KEY
05	NC	24	NC	43	SATA_RX_DN	62	M KEY
06	NC	25	NC	44	NC	63	M KEY
07	NC	26	NC	45	GND	64	M KEY
08	NC	27	GND	46	NC	65	M KEY
09	GND	28	NC	47	SATA_TX_DN	66	M KEY
10	NC	29	NC	48	NC	67	NC
11	NC	30	NC	49	SATA_TX_DP	68	SOC_SUSCLK
12	P3V3	31	NC	50	SOC_PLTRST_N	69	NC
13	NC	32	NC	51	GND	70	P3V3
14	P3V3	33	GND	52	CLKREQ_PCIE_N	71	GND
15	GND	34	NC	53	CLK_100M_DN	72	P3V3
16	P3V3	35	NC	54	NC	73	GND
17	NC	36	NC	55	CLK_100M_DP	74	P3V3
18	P3V3	37	NC	56	NC	75	GND
19	NC	38	NGFF_DEVSLP(always low)	57	GND		

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● **CN3: M.2 LTE B-Key Connector**

Pin	Signal	Pin	Signal
01	NC	39	GND
02	P3V3	40	NC
03	GND	41	PCIE_RX_DP
04	P3V3	42	NC
05	GND	43	PCIE_RX_DN
06	POWER_OFF_N (always high)	44	NC
07	USB2_DP	45	GND
08	W_DISABLE1_N	46	NC
09	USB2_DN	47	PCIE_TX_DP
10	NC	48	NC
11	GND	49	PCIE_TX_DN
12	B KEY	50	SOC_PLTRST_N
13	B KEY	51	GND
14	B KEY	52	CLKREQ_PCIE_N
15	B KEY	53	CLK_100M_DN
16	B KEY	54	NC
17	B KEY	55	CLK_100M_DP
18	B KEY	56	NC
19	B KEY	57	GND
20	NC	58	NC
21	NC	59	NC
22	NC	60	M2_COEX3 (NC)
23	NC	61	NC
24	NC	62	M2_COEX2 (NC)
25	NC	63	NC
26	NC	64	M2_COEX1 (NC)
27	GND	65	NC
28	NC	66	SIM_DET
29	USB3_RX_DN	67	SOC_PLTRST_N
30	SIM_RST	68	SOC_SUSCLK
31	USB3_RX_DP	69	NC
32	SIM_CLK	70	P3V3
33	GND	71	GND
34	SIM_DATA	72	P3V3
35	USB3_TX_DN	73	GND
36	SIM_PWR	74	P3V3
37	USB3_TX_DP	75	NC
38	NC		

