



Intelli i14 Edge

UP System

User's Manual 1st Ed

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Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
● UP Intelli i14 Edge	1
● 330W AC/DC Power Adapter	1
● Power Cord for US	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the product page at AAEON.com for the latest version of this document.

Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any AC supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent falls
12. Do not cover the openings on the device to ensure optimal heat dissipation.
13. Watch out for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

17. If any of the following situations arises, please the contact our service personnel:
 - i. Damaged power cord or plug
 - ii. Liquid intrusion to the device
 - iii. Exposure to moisture
 - iv. Device is not working as expected or in a manner as described in this manual
 - v. The device is dropped or damaged
 - vi. Any obvious signs of damage displayed on the device
18. **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.**

FCC Statement

Warning!



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

China RoHS Requirements (CN)

产品中有毒有害物质或元素名称及含量

AAEON System

QO4-381 Rev.A2

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
外壳	○	○	○	○	○	○
中央处理器 与内存	×	○	○	○	○	○
硬盘	×	○	○	○	○	○
液晶模块	×	○	○	○	○	○
光驱	×	○	○	○	○	○
触控模块	×	○	○	○	○	○
电源	×	○	○	○	○	○
电池	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。

×：表示该有害物质的某一均质材料超出了 GB/T 26572 的限量要求，然而该部件仍符合欧盟指令 2011/65/EU 的规范。

环保使用期限(EFUP (Environmental Friendly Use Period))：10 年

备注：

一、此产品所标示之环保使用期限，系指在一般正常使用状况下。

二、上述部件物质中央处理器、内存、硬盘、光驱、电源为选购品。

三、上述部件物质液晶模块、触控模块仅一体机产品适用。

China RoHS Requirement (EN)

Name and content of hazardous substances in product

AAEON System

QO4-381 Rev.A2

Part Name	Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB Assemblies	×	○	○	○	○	○
Connector and Cable	×	○	○	○	○	○
Chassis	○	○	○	○	○	○
CPU and Memory	×	○	○	○	○	○
Hard Disk	×	○	○	○	○	○
LCD Modules	×	○	○	○	○	○
CD-ROM/DVD-ROM	×	○	○	○	○	○
Touch Modules	×	○	○	○	○	○
Power	×	○	○	○	○	○
Battery	×	○	○	○	○	○
The table is prepared in accordance with the provisions of SJ/T 11364. ○ : Indicates that said hazardous substance contained in all of the homogenous materials for this product is below the limit requirement of GB/T 26572. × : Indicates that said hazardous substance contained in at least one of the homogenous materials used for this part is above the limit requirement of GB/T 26572. But this product still be compliance with 2011/65/EU Directive (allowed with 2011/65/EU Annex III of RoHS exemption with number 6(c),7(a),7(c)-1). EFUP (Environment Friendly Use Period) value: 10 years. Notes: 1. This product defined period of use is under normal condition. 2. In above part, CPU/Memory/ Hard Disk/CD-ROM/DVD-ROM/ Power are optional. 3. In above part, LCD Modules/ Touch Modules are for all-in-one product model.						

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Chapter 1

Product Specifications

1.1 Specifications

System	
CPU	Intel® Core™ i5/i7/i9 Processors (14th Gen), up to 65W Default: Intel® Core™ i9-14900T
Chipset	Intel® R680E Chipset
Memory	DDR5 SODIMM x 2, up to 32GB, 4800 MT/s, ECC supported
Graphics	NVIDIA RTX™ A2000/NVIDIA® RTX™ A4500 MXM Module
Storage	M.2 2280 M-Key x 2 (NVMe)
Ethernet	2.5GbE x 1 (Intel® Ethernet Controller I226-IT) 1GbE x 1 (Intel® Ethernet Connection I219-LM)
Wi-Fi/BT	—
Expansion Slot	M.2 2230 E-Key x 1 M.2 2280 M-Key x 2
Security	TPM 2.0
OS Support	Windows® 10 IoT
I/O	
USB	USB 3.2 Gen 1 (Type A) x 5 USB 3.2 Gen 2 (Type C) x 1
Display Port	Display Port x 2
Ethernet	2.5GbE x 1 (Intel® Ethernet Controller I226-IT) 1GbE x 1 (Intel® Ethernet Connection I219-LM)

Power Supply

Power Requirement	12V DC-in
Power Supply Type	AT(default)/ATX
Power Consumption (Typical)	300W

Mechanical

Mounting	—
Dimensions (W x H x D)	8.07" x 7.48" x 2.76" (205mm x 190mm x 70mm)
Net Weight	6.57 lb (2.99 kg)
Gross Weight	6.72 lb (3.05 kg)

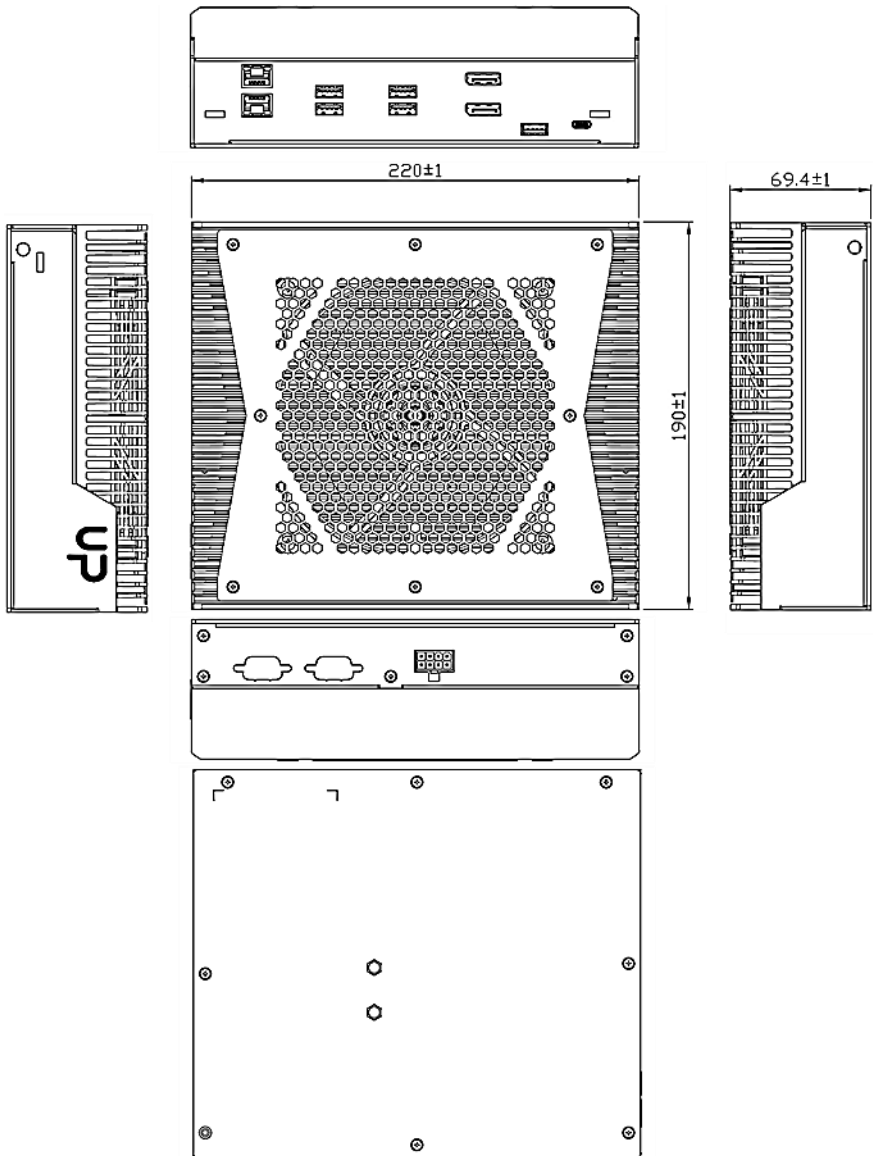
Environmental

Operating Temperature	32°F -122°F (0°C - 50°)/0.5m/s airflow
Operating Humidity	0% - 90% relative humidity, non-condensing
Storage Temperature	-4°F - 158°F (-20°C - 70°C)
MTBF (Hours)	1,373,882
Certification	CE/FCC Class A, RoHS Compliant, REACH

Chapter 2

Hardware Information

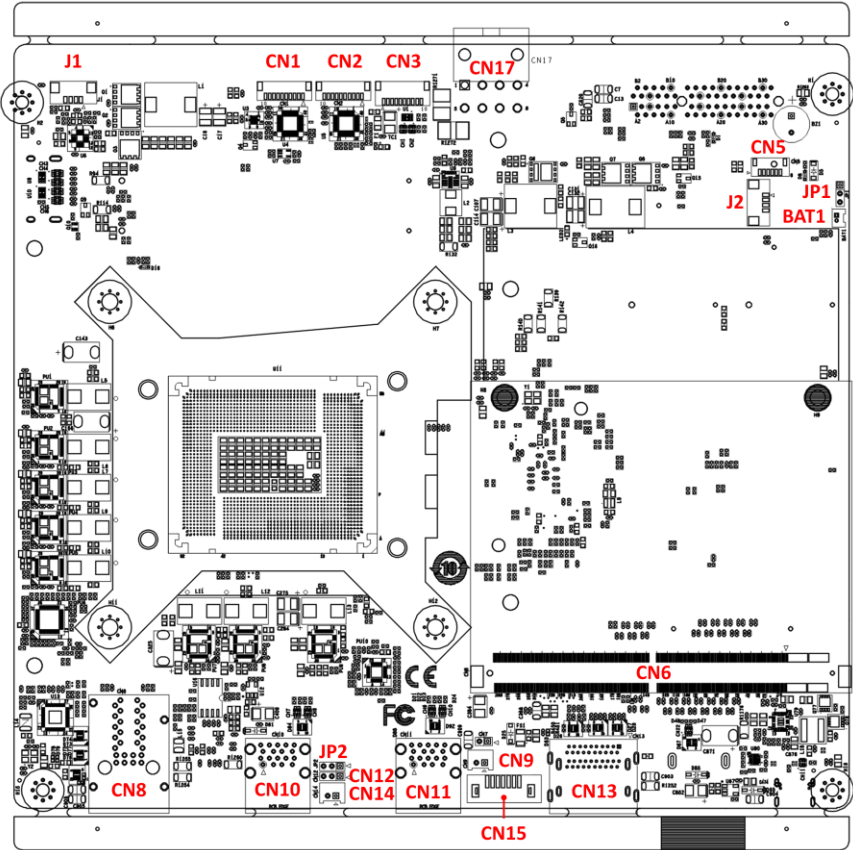
2.1 Dimensions



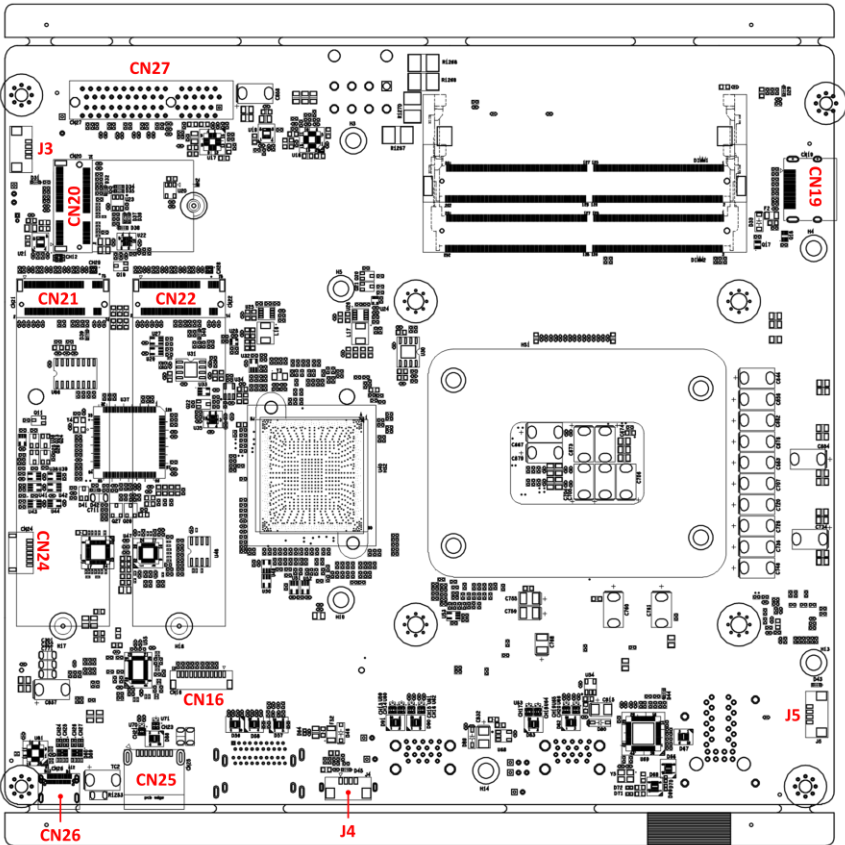
2.2 Jumpers and Connectors

Board Level

Top Side



Bottom Side

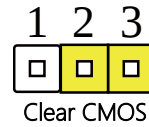
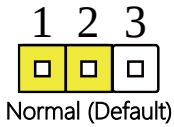


2.3 List of Jumpers

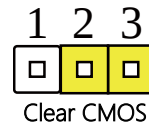
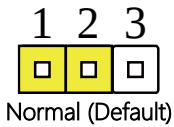
Please refer to the table below for all of the board's jumpers that you can configure for your application

Label	Function
JP1	CMOS Control Selection
JP2	Auto-Power Button Selection

2.3.1 Clear CMOS Jumper (JP1)



2.3.2 Auto Power Button Selection (JP2)



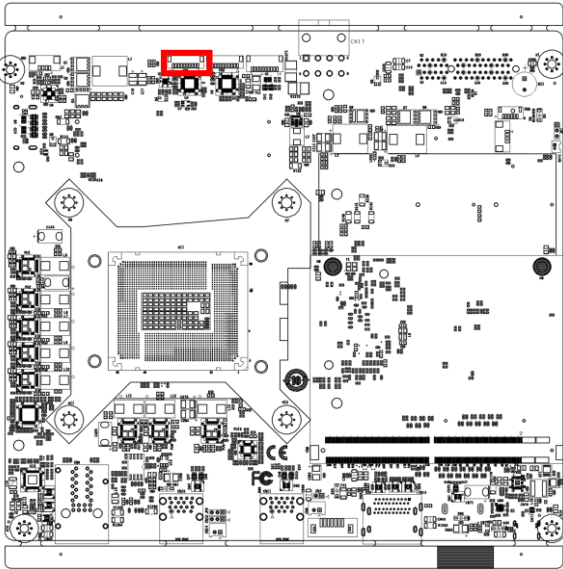
Disable Auto Power Button JP1(1-2): Need to use power button JP1(1-2) to power on the system.

2.4 List of Jumpers & Connectors

Please refer to the table below for all of the system's physical ports and interfaces.

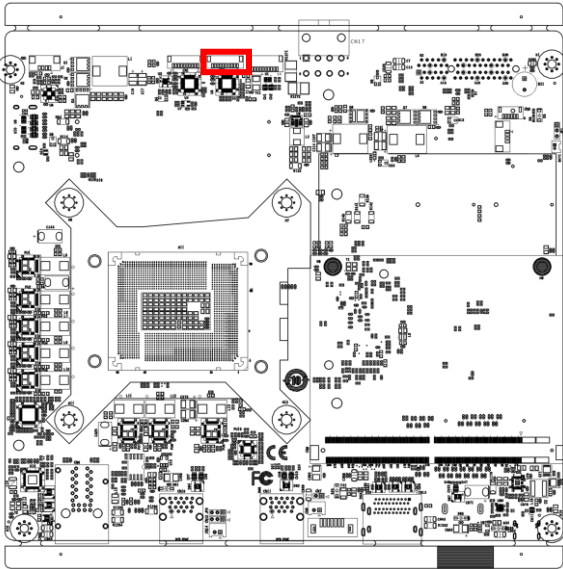
Label	Function
CN1	COM 1
CN2	COM 2
CN3	USB Wafer
CN5	1x6P Front Panel Wafer
CN6	MXM
CN8	RJ-45
CN9	SATA Power
CN10	USB 3.2 x 2
CN11	USB 3.2 x 2
CN12	IMVP9 Update
CN13	Dual DP Port
CN14	Power Supply On
CN15	SATA
CN16	eSPI Port
CN17	ATX Power
CN19	HDMI Port
CN20	M.2 E-Key
CN21	M.2 M-Key
CN22	M.2 M-Key
CN24	BIOS Update
CN25	USB 3.2
CN26	USB Type-C
CN27	PCIe Gen 4 Slot
BAT1	RTC
J1	Fan 1 (CPU)
J2	Fan 3
J3	Fan 2 (MXM)
J4	Fan 4
J5	Fan 5
JP1	CMOS Control
JP2	Auto-Power Button Selection

2.4.1 COM 1 (RS-232/422/485) (CN1)



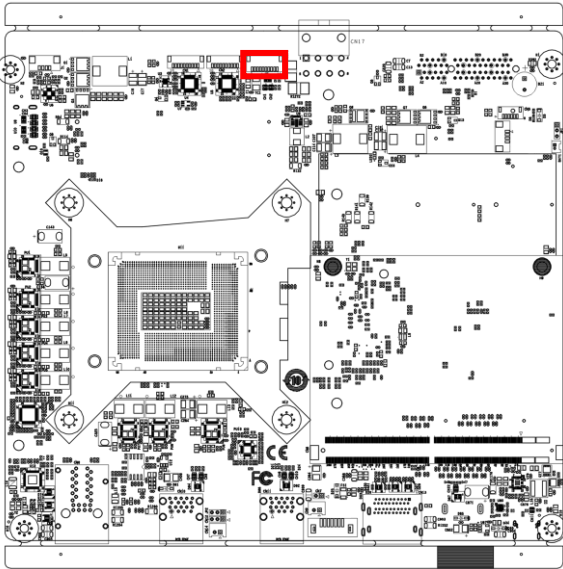
Pin	Signal	Pin	Signal
1	DCD / RS422TX- /RS485-	2	RX / RS422TX+ / RS485+
3	TX / RS422RX+	4	DTR / RS422RX-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

2.4.2 COM 2 (RS-232/422/485) (CN2)



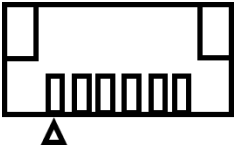
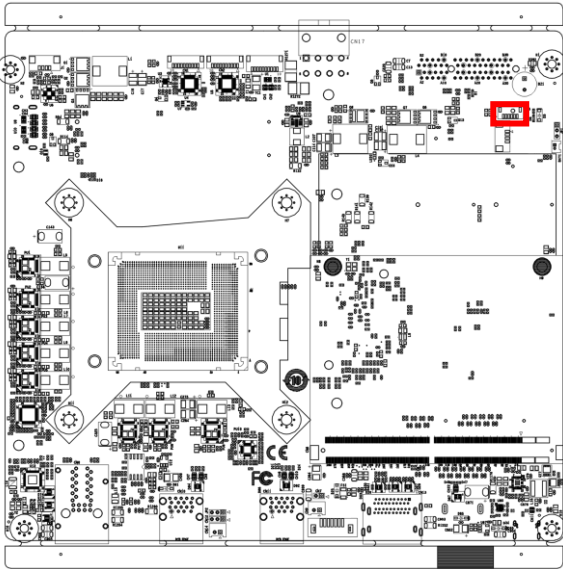
Pin	Signal	Pin	Signal
1	DCD / RS422TX- / RS485-	2	RX / RS422TX+ / RS485+
3	TX / RS422RX+	4	DTR / RS422RX-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

2.4.3 USB 2.0/UART 1x10P Wafer (CN3)



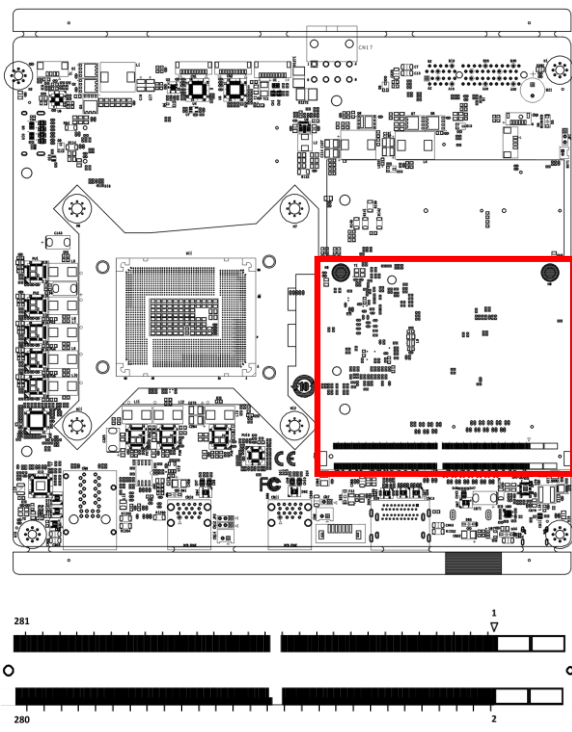
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_P0_D-	3	USB2_P0_D+
4	GND	5	+5V	6	USB2_P1_D-
7	USB2_P1_D+	8	GND	9	UART_RX
10	UART_TX				

2.4.4 Front Panel (CN5)



Pin	Signal	Pin	Signal
1	GND	2	RESET
3	GND	4	POWER S/W
5	GND	6	+5V

2.4.5 MXM (CN6)



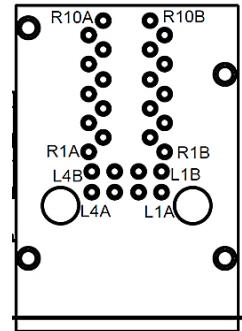
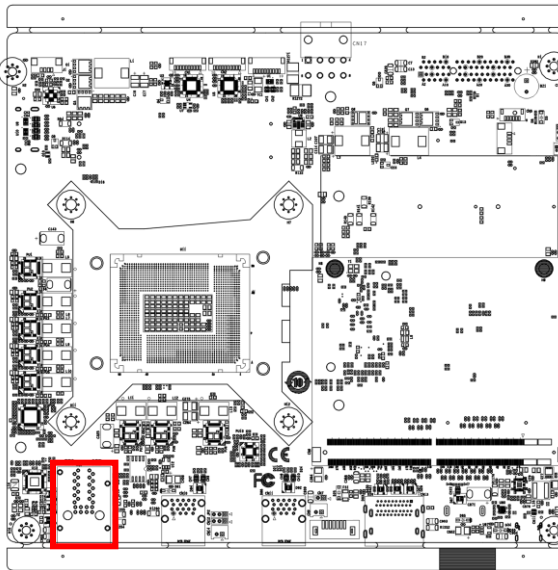
Pin	Signal	Pin	Signal	Pin	Signal
1	+V5S_MXM	2	NC	3	+V5S_MXM
4	NC	5	+V5S_MXM	6	MXM_PWR_GD
7	+V5S_MXM	8	MXM_PWR_EN	9	+V5S_MXM
10	NC	11	GND	12	GND
13	GND	14	NC	15	GND
16	NC	17	GND	18	PWR_LEVEL
19	NC	20	TH_OVERT#	21	NC
22	TH_ALERT#	23	NC	24	NC
25	NC	26	NC	27	NC
28	NC	29	NC	30	NC
31	NC	32	SMB_CLK	33	NC
34	SMB_DATA	35	NC	36	GND

Pin	Signal	Pin	Signal	Pin	Signal
37	GND	38	NC	39	NC
40	NC	41	NC	42	NC
43	NC	44	NC	45	NC
46	GND	47	GND	48	PEG_TXN15
49	PEG_C_RXN15	50	PEG_TXP15	51	PEG_C_RXP15
52	GND	53	GND	54	PEG_TXN14
55	PEG_C_RXN14	56	PEG_TXP14	57	PEG_C_RXP14
58	GND	59	GND	60	PEG_TXN13
61	PEG_C_RXN13	62	PEG_TXP13	63	PEG_C_RXP13
64	GND	65	GND	66	PEG_TXN12
67	PEG_C_RXN12	68	PEG_TXP12	69	PEG_C_RXP12
70	GND	71	GND	72	PEG_TXN11
73	PEG_C_RXN11	74	PEG_TXP11	75	PEG_C_RXP11
76	GND	77	GND	78	PEG_TXN10
79	PEG_C_RXN10	80	PEG_TXP10	81	PEG_C_RXP10
82	GND	83	GND	84	PEG_TXN9
85	PEG_C_RXN9	86	PEG_TXP9	87	PEG_C_RXP9
88	GND	89	GND	90	PEG_TXN8
91	PEG_C_RXN8	92	PEG_TXP8	93	PEG_C_RXP8
94	GND	95	GND	96	PEG_TXN7
97	PEG_C_RXN7	98	PEG_TXP7	99	PEG_C_RXP7
100	GND	101	GND	102	PEG_TXN6
103	PEG_C_RXN6	104	PEG_TXP6	105	PEG_C_RXP6
106	GND	107	GND	108	PEG_TXN5
109	PEG_C_RXN5	110	PEG_TXP5	111	PEG_C_RXP5
112	GND	113	GND	114	PEG_TXN4
115	PEG_C_RXN4	116	PEG_TXP4	117	PEG_C_RXP4
118	GND	119	GND	120	PEG_TXN3
121	PEG_C_RXN3	122	PEG_TXP3	123	PEG_C_RXP3
124	GND	125	GND	133	GND
134	GND	135	PEG_C_RXN2	136	PEG_TXN2
137	PEG_C_RXP2	138	PEG_TXP2	139	GND
140	GND	141	PEG_C_RXN1	142	PEG_TXN1
143	PEG_C_RXP1	144	PEG_TXP1	145	GND
146	GND	147	PEG_C_RXN0	148	PEG_TXN0
149	PEG_C_RXP0	150	PEG_TXP0	151	GND
152	GND	153	CLKOUT_P1_N	154	MXM_CLKREQ#
155	CLKOUT_P1_P	156	CB_RESET#	157	GND
158	NC	159	NC	160	NC

Pin	Signal	Pin	Signal	Pin	Signal
161	NC	162	NC	163	NC
164	NC	165	NC	166	GND
167	NC	168	NC	169	NC
170	NC	171	NC	172	NC
173	GND	174	GND	175	NC
176	NC	177	NC	178	NC
179	GND	180	GND	181	NC
182	NC	183	NC	184	NC
185	GND	186	GND	187	NC
188	NC	189	NC	190	NC
191	GND	192	GND	193	NC
194	NC	195	NC	196	NC
197	GND	198	GND	199	DP_C_TXN0
200	NC	201	DP_C_TXP0	202	NC
203	GND	204	GND	205	DP_C_TXN1
206	DP_D_TXN0	207	DP_C_TXP1	208	DP_D_TXP0
209	GND	210	GND	211	DP_C_TXN2
212	DP_D_TXN1	213	DP_C_TXP2	214	DP_D_TXP1
215	GND	216	GND	217	DP_C_TXN3
218	DP_D_TXN2	219	DP_C_TXP3	220	DP_D_TXP2
221	GND	222	GND	223	DP_C_AUX_DN
224	DP_D_TXN3	225	DP_C_AUX_DP	226	DP_D_TXP3
227	NC	228	GND	229	NC
230	DP_D_AUX_DN	231	NC	232	DP_D_AUX_DP
233	NC	234	TPYE_C_HDP	235	NC
236	DP_D_HPD	237	NC	238	NC
239	NC	240	+V3P3S_MXM	241	NC
242	+V3P3S_MXM	243	NC	244	GND
245	NC	246	DP_B_TXN0	247	NC
248	DP_B_TXP0	249	NC	250	GND
251	GND	252	DP_B_TXN1	253	DP_A_TXN0
254	DP_B_TXP1	255	DP_A_TXP0	256	GND
257	GND	258	DP_B_TXN2	259	DP_A_TXN1
260	DP_B_TXP2	261	DP_A_TXP1	262	GND
263	GND	264	DP_B_TXN3	265	DP_A_TXN2
266	DP_B_TXP3	267	DP_A_TXP2	268	GND
269	GND	270	DP_B_AUX_DN	271	DP_A_TXN3
272	DP_B_AUX_DP	273	DP_A_TXP3	274	DP_B_HPD
275	GND	276	DP_A_HPD	277	DP_A_AUX_DN

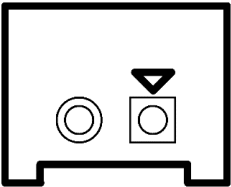
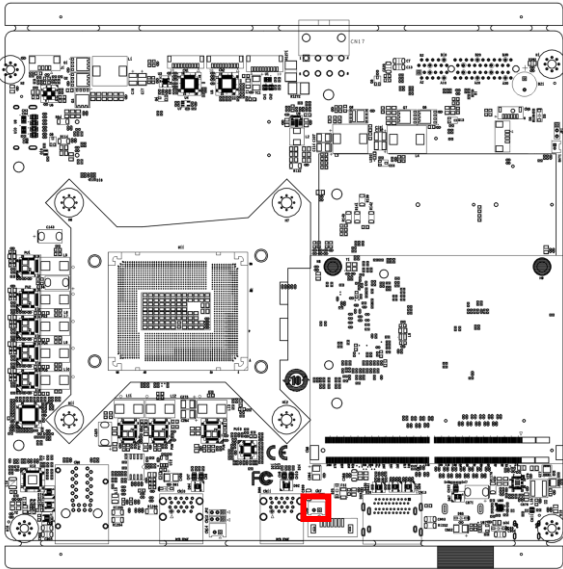
Pin	Signal	Pin	Signal	Pin	Signal
278	+V3P3S_MXM	279	DP_A_AUX_DP	280	+V3P3S_MXM
281	NC	282	NC	283	NC
E1	+V12_GPU	E2	+V12_GPU	E3	GND
E4	GND				

2.4.6 RJ-45 (CN8)



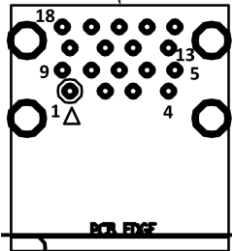
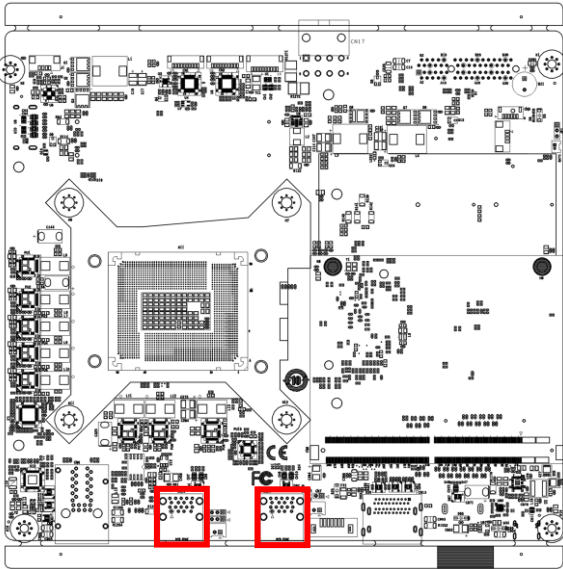
Pin	Signal	Pin	Signal	Pin	Signal
R1A	LAN1_MDIO+	R2A	LAN1_MDIO-	R3A	LAN1_MDIO+
R4A	LAN1_MDIO1-	R5A	LAN1_MDIO2+	R6A	LAN1_MDIO2-
R7A	LAN1_MDIO3+	R8A	LAN1_MDIO3-	R9A	GND
R10A	GND	L1A	LAN1_ACTLED-	L2A	LAN1_ACTLED+
L3A	LAN1_LINK2500#	L4A	LAN1_LINK1000#	R1B	LAN2_MDIO+
R2B	LAN2_MDIO-	R3B	LAN2_MDIO1+	R4B	LAN2_MDIO1-
R5B	LAN2_MDIO2+	R6B	LAN2_MDIO2-	R7B	LAN2_MDIO3+
R8B	LAN2_MDIO3-	R9B	GND	R10B	GND
L1B	LAN2_ACTLED-	L2B	LAN2_ACTLED+	L3B	LAN2_LINK2500#
L4B	LAN2_LINK1000#				

2.4.7 SATA Power (CN9)



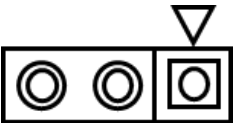
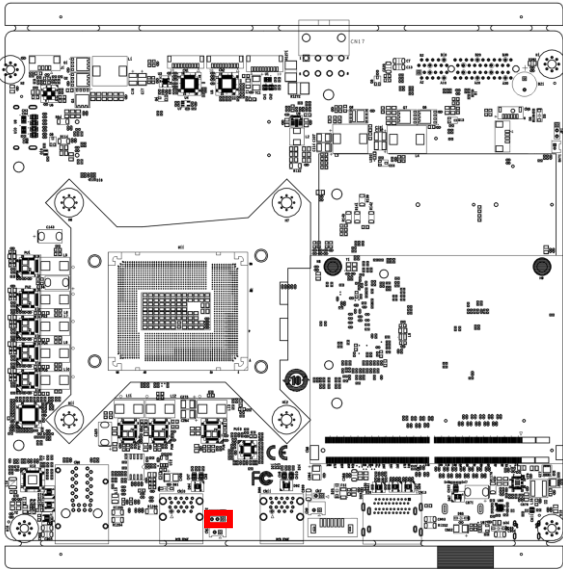
Pin	Signal	Pin	Signal
1	5V	2	GND

2.4.8 USB 3.2 Ports (CN10/CN11)



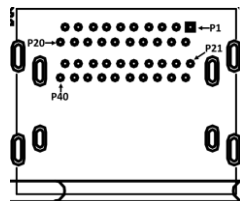
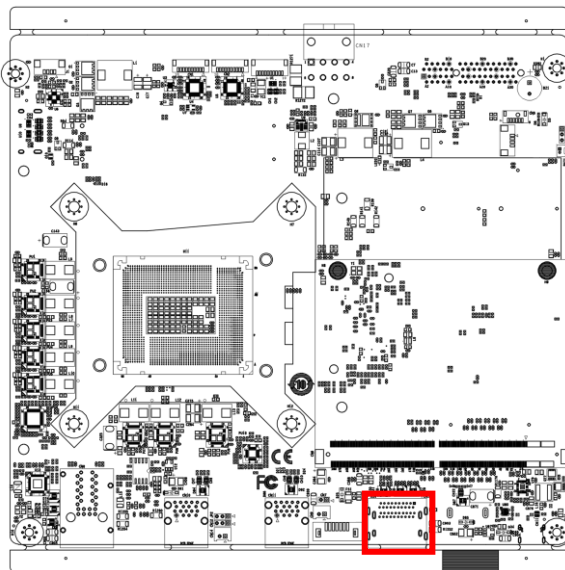
Pin	Signal	Pin	Signal	Pin	Signal
1	+5V	2	USB2_D-	3	USB2_D+
4	GND	5	USB3_RX-	6	USB3_RX+
7	GND	8	USB3_TX-	9	USB3_TX+
10	+5V	11	USB2_D-	12	USB2_D+
13	GND	14	USB3_RX-	15	USB3_RX+
16	GND	17	USB3_TX-	18	USB3_TX+

2.4.9 IMVP9 Update (CN12)



Pin	Signal	Pin	Signal
1	SCL	2	SDA
3	GND		

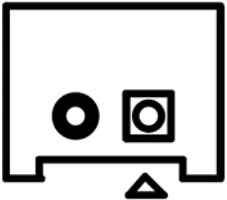
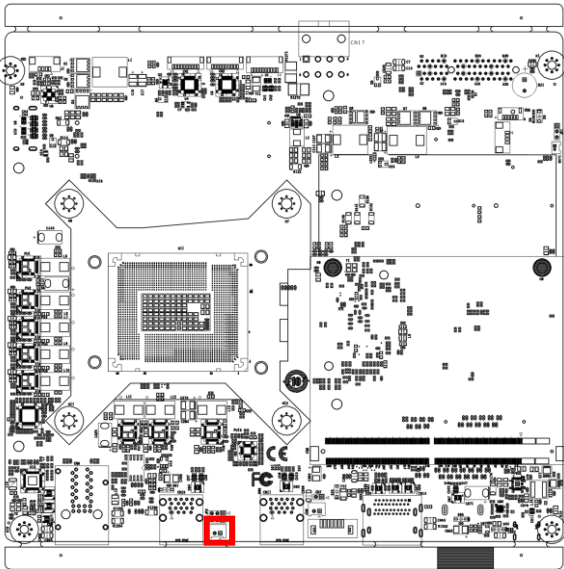
2.4.10 Dual DP Port (CN13)



Pin	Signal	Pin	Signal
P1	DP1_LANE0_P	P21	DP2_LANE 0_P
P2	GND	P22	GND
P3	DP1_LANE 0_N	P23	DP2_LANE 0_N
P4	DP1_LANE 1_P	P24	DP2_LANE 1_P
P5	GND	P25	GND
P6	DP1_LANE 1_N	P26	DP2_LANE 1_N
P7	DP1_LANE 2_P	P27	DP2_LANE 2_P
P8	GND	P28	GND
P9	DP1_LANE 1_N	P29	DP2_LANE 1_N
P10	DP1_LANE 3_P	P30	DP2_LANE 3_P
P11	GND	P31	GND
P12	DP1_LANE 3_N	P32	DP2_LANE 3_N
P13	GND	P33	GND
P14	GND	P34	GND
P15	DP1_AUX_P	P35	DP2_AUX_P
P16	GND	P36	GND
P17	DP1_AUX_N	P37	DP2_AUX_N

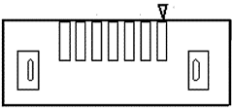
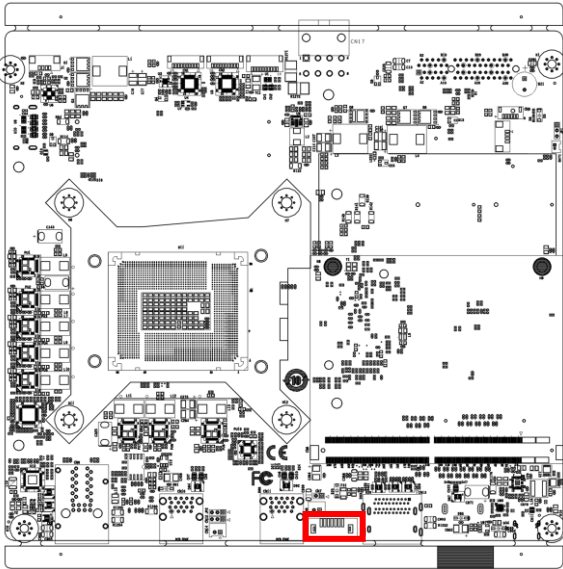
Pin	Signal	Pin	Signal
P18	DP1_HPD	P38	DP2_HPD
P19	GND	P39	GND
P20	DP1_PWR	P40	DP2_PWR

2.4.11 Power Supply On (CN14)



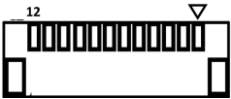
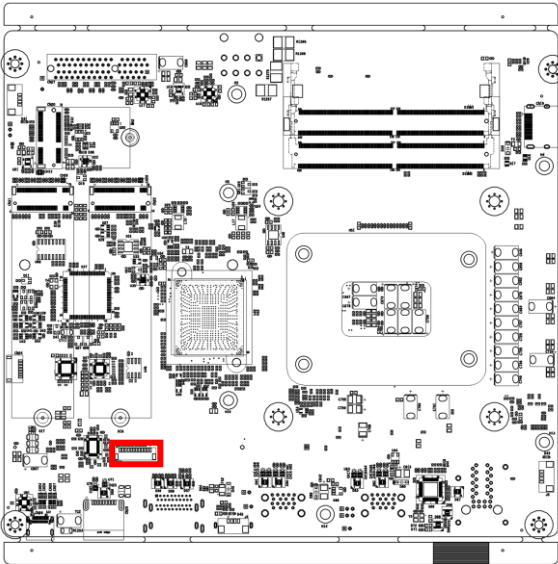
Pin	Signal	Pin	Signal
1	PSON	2	GND

2.4.12 SATA (CN15)



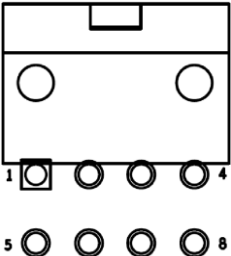
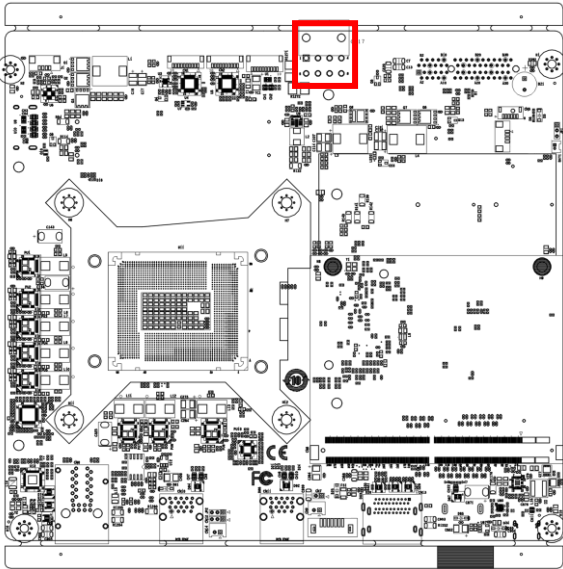
Pin	Signal	Pin	Signal
1	GND	2	SATA_TXP0
3	SATA_TXN0	4	GND
5	SATA_RXN0	6	SATA_RXP0
7	GND		

2.4.13 eSPI Port (CN16)



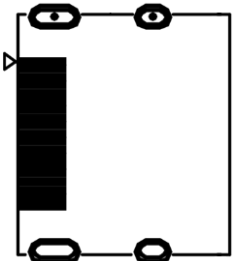
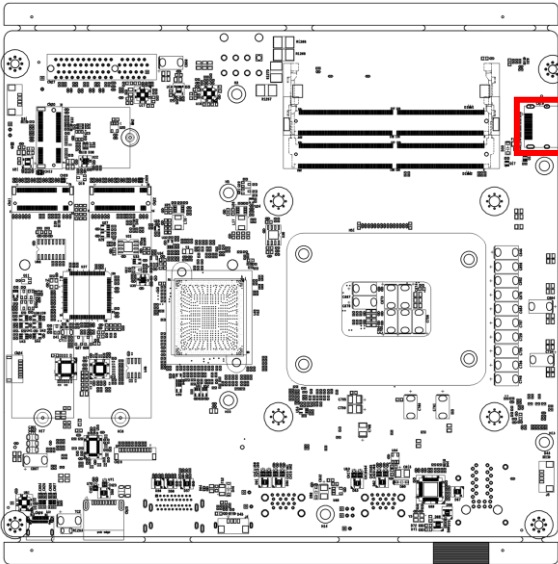
Pin	Signal	Pin	Signal
1	ESPI_IO_0	7	ESPI_RST#
2	ESPI_IO_1	8	GND
3	ESPI_IO_2	9	EPSI_CLK
4	ESPI_IO_3	10	+3.3V
5	+3.3V	11	I2C0_SDA
6	ESPI_CS#	12	I2C0_SCL

2.4.14 ATX Power (CN17)



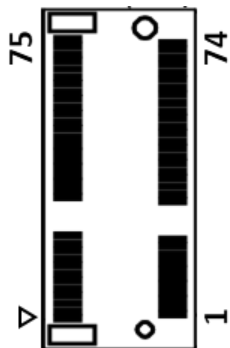
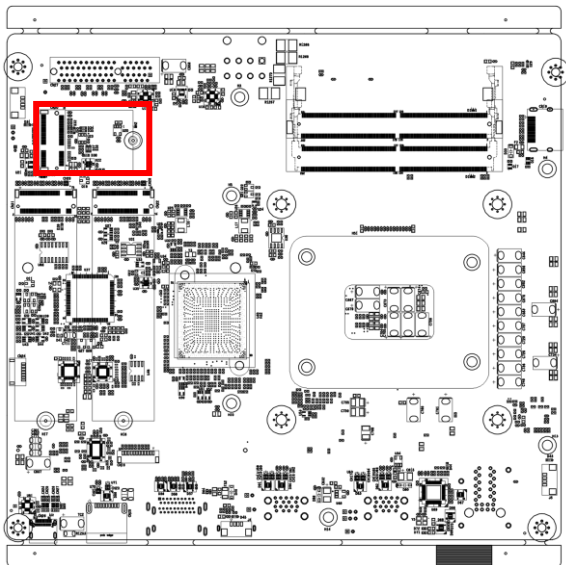
Pin	Signal	Pin	Signal
1	+12V	5	GND
2	+12V	6	GND
3	+12V	7	GND
4	+12V	8	GND

2.4.15 HDMI Port (CN19)



Pin	Signal	Pin	Signal
1	HDMI1_DATA2_P	2	GND
3	HDMI1_DATA2_N	4	HDMI1_DATA1_P
5	GND	6	HDMI1_DATA1_N
7	HDMI1_DATA0_P	8	GND
9	HDMI1_DATA0_N	10	HDMI1_CLK_P
11	GND	12	HDMI1_CLK_N
13	+3.3V	14	NC
15	HDMI_SCL	16	HDMI_SDA
17	GND	18	+5V
19	HDMI_HPD_R		

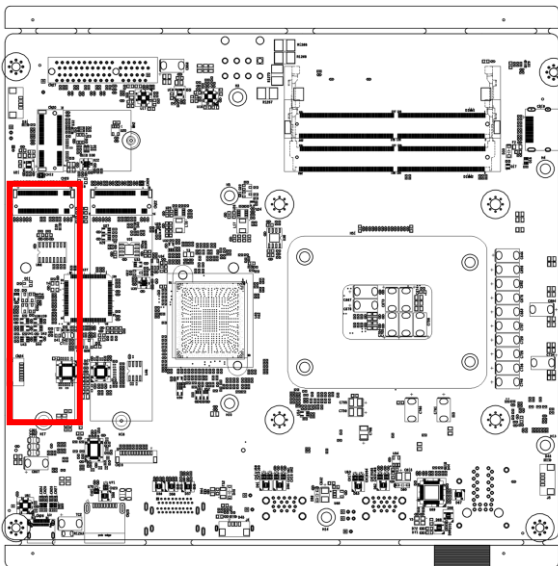
2.4.16 M.2 2230 E-Key (CN20)



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	3.3V	3	USB2_P14_P
4	3.3V	5	USB2_P14_N	6	NC
7	GND	8	NC	9	CNV_WR_LANE1_DN
10	CNV_R_RST	11	CNV_WR_LANE1_DP	12	NC
13	GND	14	CNV_MODEM_CLKREQ	15	CNV_WR_LANE0_DN
16	NC	17	CNV_WR_LANE0_DP	18	GND
19	GND	20	NC	21	CNV_WR_CLK_DN
22	CNV_BRI_RSP	23	CNV_WR_CLK_DP	24	NC
25	NC	26	NC	27	NC
28	NC	29	NC	30	NC
31	NC	32	CNV_RGI_DT	33	GND
34	CNV_RGI_RSP	35	PCIE_TXP1	36	CNV_BRI_DT
37	PCIE_TXN1	38	NC	39	GND
40	NC	41	PCIE_RXP1	42	NC

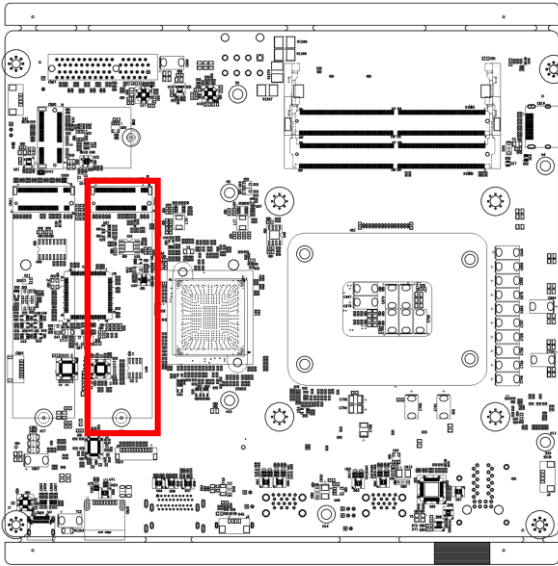
Pin	Signal	Pin	Signal	Pin	Signal
43	PCIE_RXN1	44	NC	45	GND
46	NC	47	CLKOUT_P3_N	48	NC
49	CLKOUT_P3_P	50	SUS_CLK_M2E	51	GND
52	WIFI_RST#	53	PCIE_M2E_CLKRE Q#	54	BT_EN
55	2230_WAKE#	56	WIFI_EN	57	GND
58	NC	59	CNV_WT_LANE1_ DN	60	NC
61	CNV_WT_LANE1_ DP	62	NC	63	GND
64	NC	65	CNV_WT_LANE0_ DN	66	NC
67	CNV_WT_LANE0_ DP	68	NC	69	GND
70	NC	71	CNV_WT_CLK_DN	72	3.3V
73	CNV_WT_CLK_DP	74	3.3V	75	GND

2.4.17 M.2 2280 M-Key (CN21)



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	3.3V	3	GND
4	3.3V	5	PCIE_X4_RXN3	6	NC
7	PCIE_X4_RXP3	8	NC	9	GND
10	NC	11	PCIE_X4_TXN3	12	3.3V
13	PCIE_X4_TXP3	14	3.3V	15	GND
16	3.3V	17	PCIE_X4_RXN2	18	3.3V
19	PCIE_X4_RXP2	20	NC	21	GND
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	NC	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	BUF_PLT_RST#	51	GND
52	CLK_PCIE_M2M_R EQ#	53	CLKOUT_P0_N	54	NC
55	CLKOUT_P0_P	56	NC	57	GND
58	NC	59	NC	60	NC
61	NC	62	NC	63	NC
64	NC	65	NC	66	NC
67	NC	68	NC	69	NC
70	3.3V	71	GND	72	3.3V
73	GND	74	3.3V	75	GND

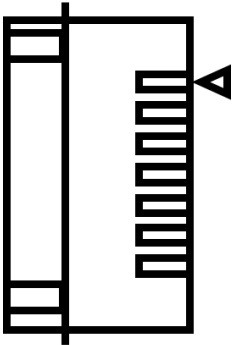
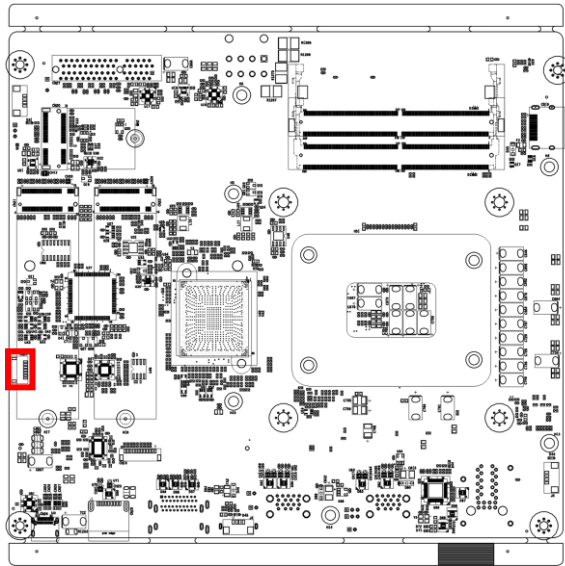
2.4.18 M.2 2280 M-Key (CN22)



Pin	Signal	Pin	Signal	Pin	Signal
1	GND	2	3.3V	3	GND
4	3.3V	5	PCIE_RXN24	6	NC
7	PCIE_RXP24	8	NC	9	GND
10	NC	11	PCIE_TXN24	12	3.3V
13	PCIE_TXP24	14	3.3V	15	GND
16	3.3V	17	PCIE_RXN23	18	3.3V
19	PCIE_RXP23	20	NC	21	GND
22	NC	23	PCIE_TXN23	24	NC
25	PCIE_TXP23	26	NC	27	GND
28	NC	29	PCIE_RXN22	30	NC
31	PCIE_RXP22	32	NC	33	GND
34	NC	35	PCIE_TXN22	36	NC
37	PCIE_TXP22	38	NC	39	GND
40	NC	41	PCIE_RXN21	42	NC
43	PCIE_RXP21	44	NC	45	GND
46	NC	47	PCIE_TXN21	48	NC
49	PCIE_TXP21	50	BUF_PLT_RST#	51	GND

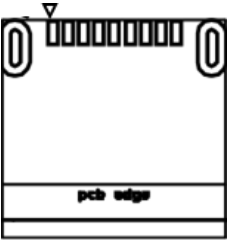
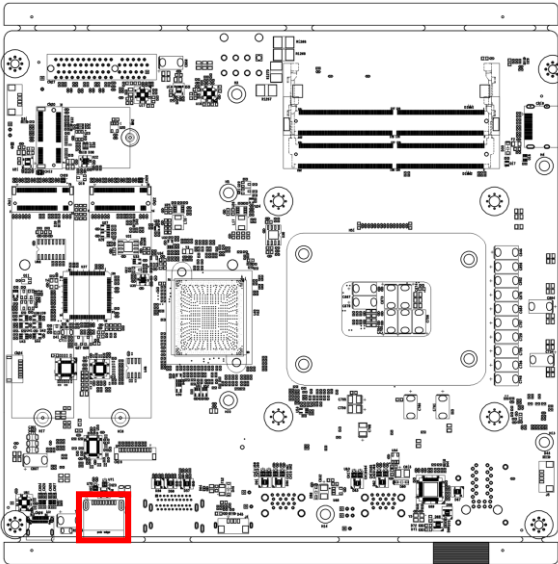
Pin	Signal	Pin	Signal	Pin	Signal
52	PCIE_M2_CLKREQ#	53	NC	54	NC
55	NC	56	NC	57	GND
58	NC	59	NC	60	NC
61	NC	62	NC	63	NC
64	NC	65	NC	66	NC
67	NC	68	NC	69	NC
70	3.3V	71	GND	72	3.3V
73	GND	74	3.3V	75	GND

2.4.19 BIOS Update (CN24)



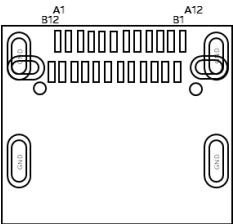
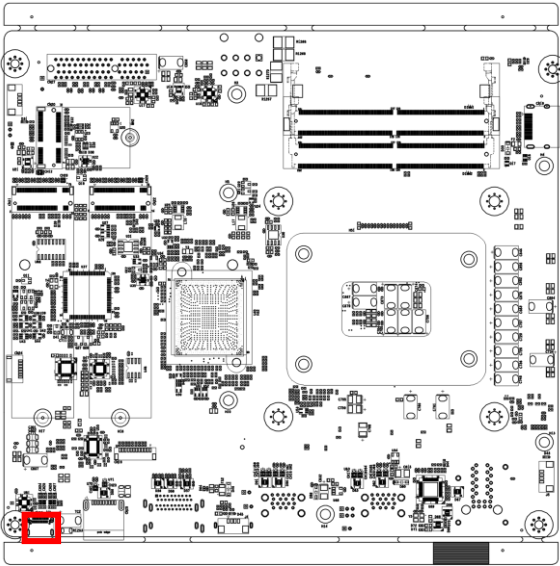
Pin	Signal	Pin	Signal
1	SPI_BIOS_MISO	2	GND
3	SPI_BIOS_CLK	4	+VCC_SPI
5	SPI_BIOS_MOSI	6	SPI_BIOS_CS0#
7	NC		

2.4.20 USB 3.2 Port (CN25)



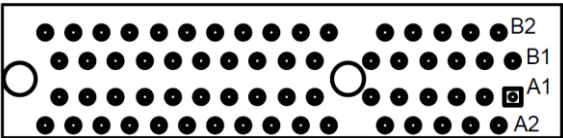
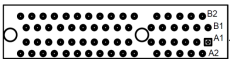
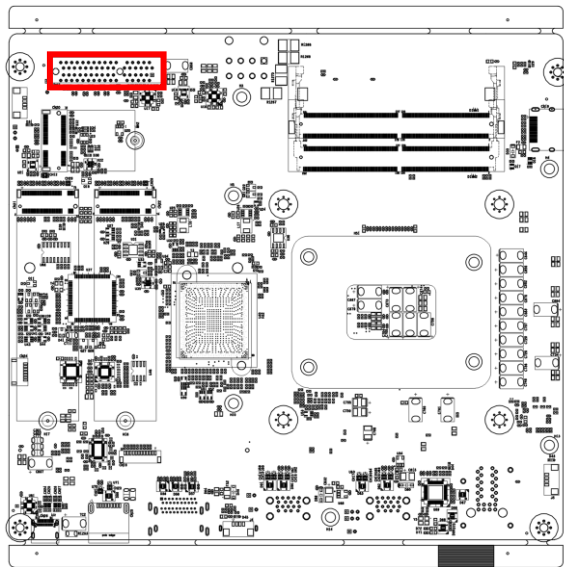
Pin	Signal	Pin	Signal
1	+5V	2	USB8-
3	USB8+	4	GND
5	USB3_RX5_N_C	6	USB3_RX5_P_C
7	GND	8	USB3_TX5_N_C
9	USB3_TX5_P_C		

2.4.21 USB Type-C Port (CN26)



Pin	Signal	Pin	Signal	Pin	Signal
A1	GND	A2	TCP0_RT_TX0_C_DP	A3	TCP0_RT_TX0_C_DN
A4	5V	A5	+VTCPC0_CC1_CON N	A6	USB2_P7_R_DP
A7	USB2_P7_R_DN	A8	TCP0_SBU1_CONN	A9	5V
A10	TCP0_RT_TXRX1_C _DN	A11	TCP0_RT_TXRX1_C_ DP	A12	GND
B1	GND	B2	TCP0_RT_TX1_C_DP	B3	TCP0_RT_TX1_C_DN
B4	5V	B5	+VTCPC0_CC2_CO NN	B6	USB2_P7_R_DP
B7	USB2_P7_R_DN	B8	TCP0_SBU2_CONN	B9	5V
B10	TCP0_RT_TXRX0_C _DN	B11	TCP0_RT_TXRX0_C_ DP	B12	GND
H1	NC	H2	NC	H3	GND
H4	GND	H5	GND	H6	GND
H7	GND	H8	GND		

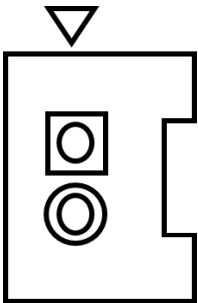
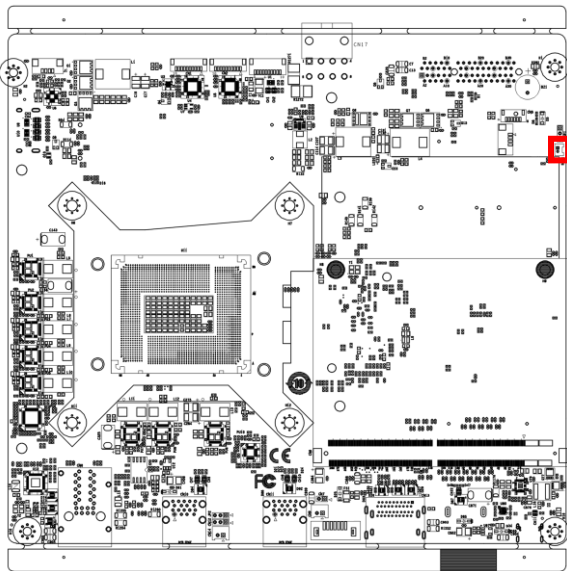
2.4.22 PCIe Gen 4 Slot (CN27)



Pin	Signal	Pin	Signal
B1	+12V	A1	GND
B2	+12V	A2	+12V
B3	+12V	A3	+12V
B4	GND	A4	GND
B5	SMB_CLK	A5	NC
B6	SMB_DATA	A6	NC
B7	GND	A7	+5V
B8	+3.3V	A8	+5V
B9	+5V	A9	+3.3V
B10	+3.3V	A10	+3.3V
B11	WAKE#	A11	BUF_PLT_RST#
B12	PCIE_CLKREQ#	A12	GND

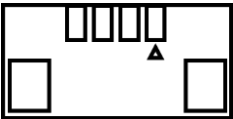
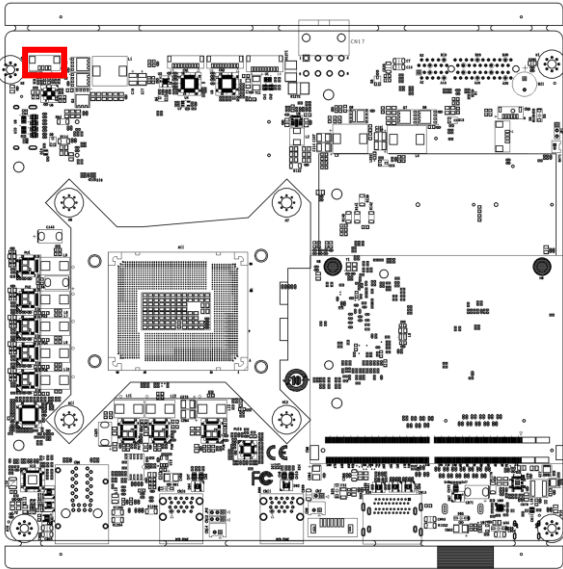
Pin	Signal	Pin	Signal
B13	GND	A13	CLKOUT_P6_P
B14	PCIE_P13_TXP	A14	CLKOUT_P6_N
B15	PCIE_P13_TXN	A15	GND
B16	GND	A16	PCIE_P13_RXP
B17	GND	A17	PCIE_P13_RXN
B18	GND	A18	GND
B19	PCIE_P14_TXP	A19	NC
B20	PCIE_P14_TXN	A20	GND
B21	GND	A21	PCIE_P14_RXP
B22	GND	A22	PCIE_P14_RXN
B23	PCIE_P15_TXP	A23	GND
B24	PCIE_P15_TXN	A24	GND
B25	GND	A25	PCIE_P15_RXP
B26	GND	A26	PCIE_P15_RXN
B27	PCIE_P16_TXP	A27	GND
B28	PCIE_P16_TXN	A28	GND
B29	GND	A29	PCIE_P16_RXP
B30	NC	A30	PCIE_P16_RXN
B31	GND	A31	GND
B32	GND	A32	+5V

2.4.23 RTC (BAT1)



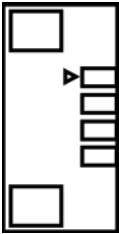
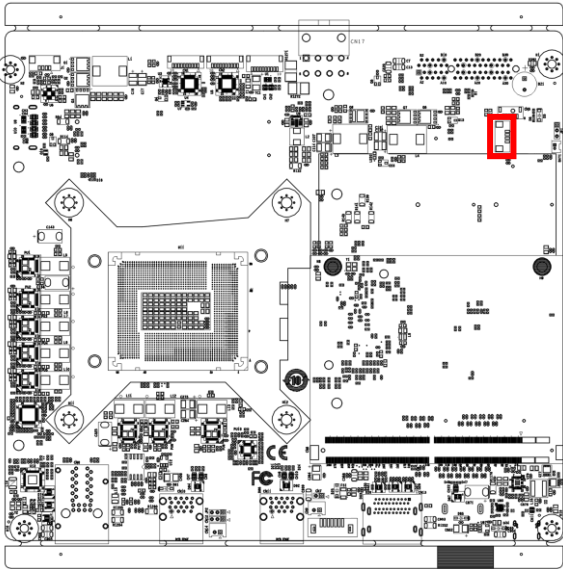
Pin	Signal	Pin	Signal
1	+V3.3A_RTC	2	GND

2.4.24 Fan1 (CPU) (J1)



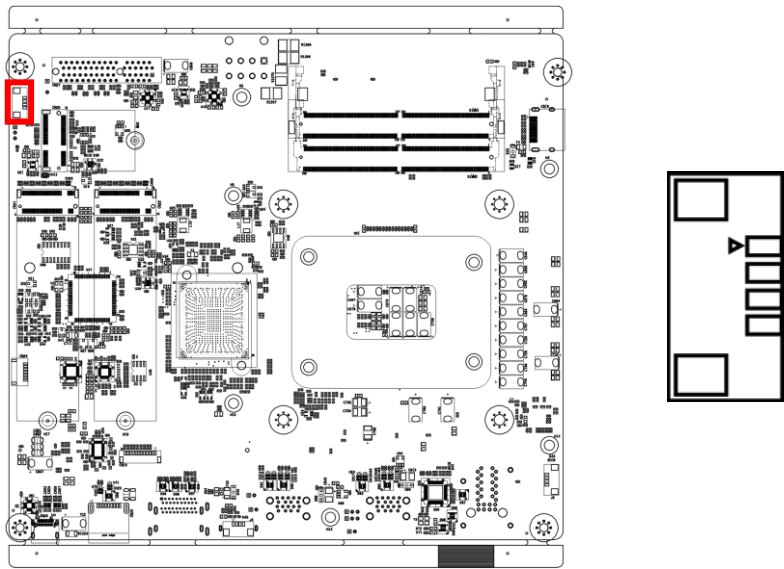
Pin	Signal	Pin	Signal
1	FAN1_CTL_CPU	2	FAN1_TAC_CPU
3	GND	4	+12V

2.4.25 Fan 3 (J2)



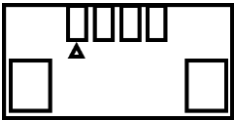
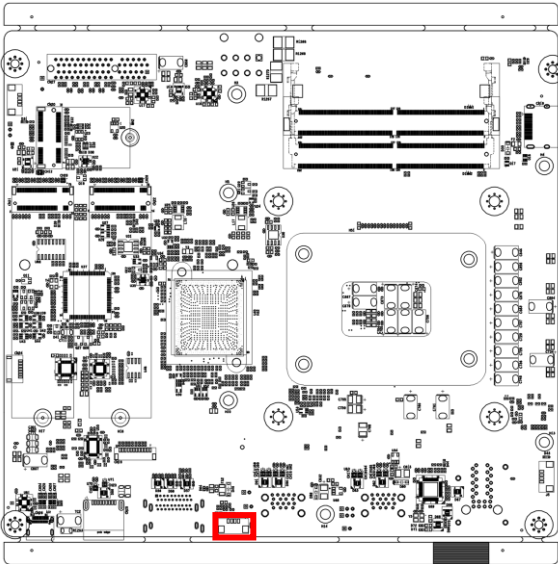
Pin	Signal	Pin	Signal
1	NC	2	+12V
3	GND	4	+12V

2.4.26 Fan 2 (MXM) (J3)



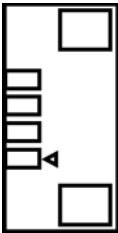
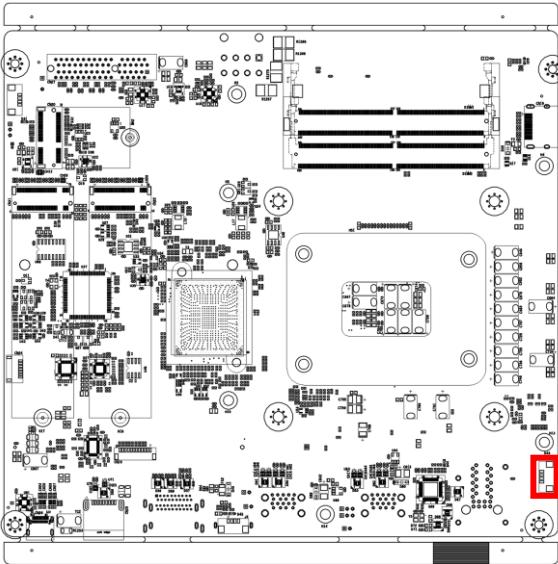
Pin	Signal	Pin	Signal
1	FAN2_CTL_CPU	2	FAN2_TAC_CPU
3	GND	4	+12V

2.4.27 Fan 4 (J4)



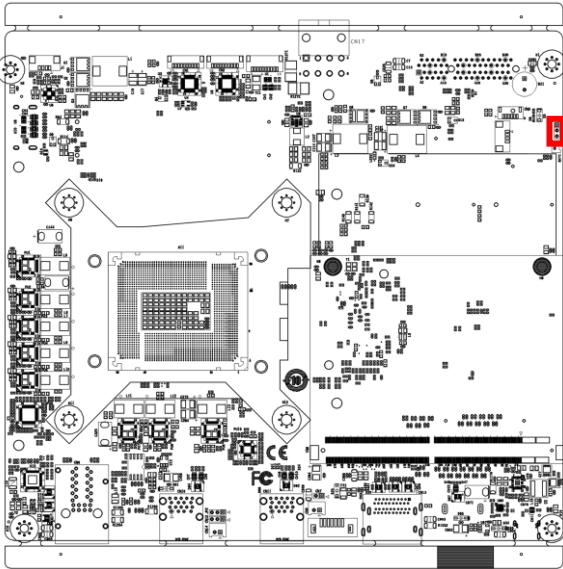
Pin	Signal	Pin	Signal
1	FAN3_CTL_CPU	2	FAN3_TAC_CPU
3	GND	4	+12V

2.4.28 Fan 5 (J5)



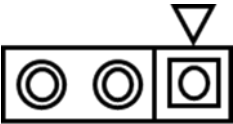
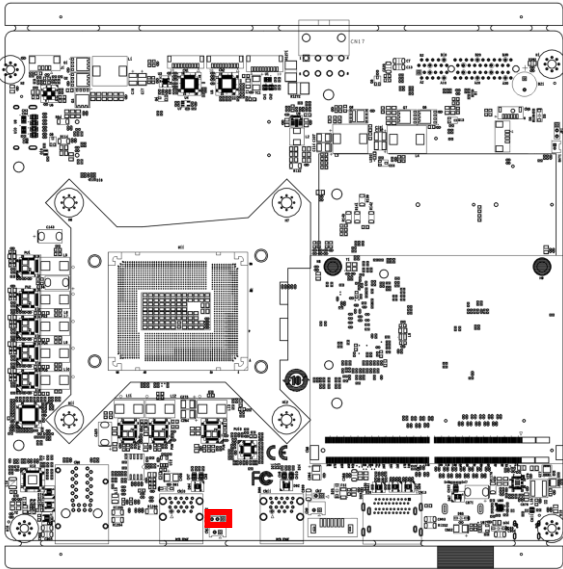
Pin	Signal	Pin	Signal
1	NC	2	FAN3_TAC_CPU
3	GND	4	+12V

2.4.29 CMOS Control (JP1)



Pin	Signal	Pin	Signal
1	+V3.3A_RTC	2	RTCRST#/SRTCST#
3	GND		

2.4.30 Auto Power Button Selection (JP2)



Pin	Signal	Pin	Signal
1	NC	2	ATX_AT_TRAP
3	GND		

Appendix A

Cables and Connectors

A.1 Cables and Connectors

This table provides detailed information about the cables and connectors used by the UP Intelli i14 Edge. If you have any questions about the configuration of your system, please contact your AAEON sales representative.

Connector Label	AAEON Cable/PN	Mating Cable Description
RTC	175011301K	(TF)Lithium Battery.CR2032H.3V.240mAH.w/cable 90mm.Battery power.BP-CR2032-M90-001