



UP 15.6" Touch Panel PC

UP Touch Panel PC
UPPC-ASLN15

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
● UPPC-ASLN15	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.**

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.

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™ i3-N305 (8C/8T, up to 3.8 GHz, 15W) Intel® Processor N97 (4C, up to 3.6 GHz, 12W)
Memory	DDR5 SODIMM x 1, up to 16GB
Graphics	Intel® UHD Graphics
ECC	Intel In-Band Error Correction Code
Light Sensor	Light Sensor for auto brightness
Storage	M.2 2280 M-Key x 1 (PCIe Gen 3 [x4]) (NVMe) M.2 2280 M-Key x 1 (PCIe Gen 3 [x2]) (NVMe) Optional 128GB onboard eMMC
Ethernet	Intel® Ethernet Controller I226-V, 2.5GbE x 2
Wi-Fi/BT	M.2 2230 E-Key x 1
I/O Port	USB 2.0 (Type-A) x 2 USB 3.2 Gen 2 (Type-A) x 2 2.5GbE RJ-45 x 2 8-pin RS-232/422/485 Connector x 2 (RS-232/422/485, SW-selectable) 10-pin GPIO Connector x 2 (GPIO x 8 + GND x 2) Rocker Switch x 1 for Power On/Off
Expansion	M.2 2280 M-Key x 1 (PCIe Gen 3 [x4]) M.2 2280 M-Key x 1 (PCIe Gen 3 [x2]) co-lay M.2 3052 B-Key x 1 (USB 3.2 Gen 2 only) with Nano SIM slot (USB 3.0)
OS Support	Windows® 11 IoT Enterprise Ubuntu 22.04 LTS

Mechanical

Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA Mount (VESA 100 x 100) Panel Mount (optional)
Dimension	15.18" x 9.25" x 1.96" (385.6mm x 235mm x 49.9mm)
Carton Dimension	19.9" x 16.5" x 6.8" (505mm x 420mm x 173mm)
Gross Weight	8.11 lb (3.68 kg)

Environmental

Operating Temperature	With Cooler: 32°F – 122°F (0°C – 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F – 140°F (-20°C – 60°C)
Storage Humidity	90% @40°C; non-condensing
EMC	CE/FCC Class A Compatible

Power Supply

DC Input	12V or 14V – 36VDC Phoenix Connector with Ground Screw
-----------------	--

LCD

Display Type	15.6" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	262K
Luminance	350 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	35,000 (Based on 9 hours of usage per day)

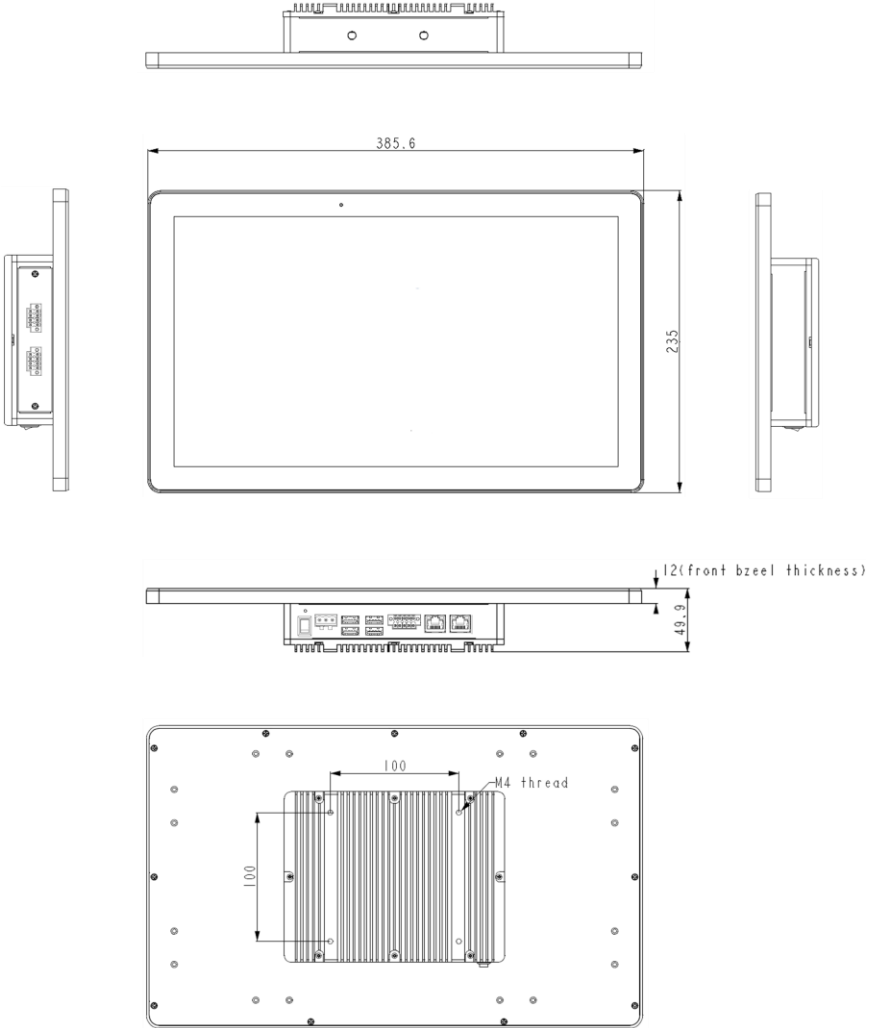
Touchscreen

Type	Projected Capacitive Multi-Touch
Light Transmission	85%

Chapter 2

Hardware Information

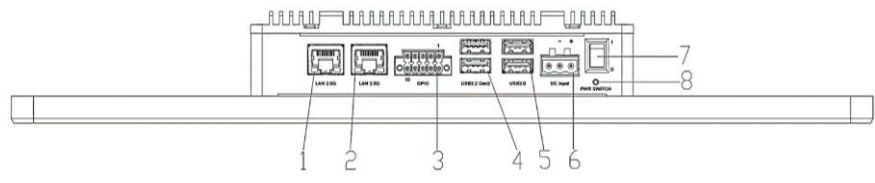
2.1 Dimensions



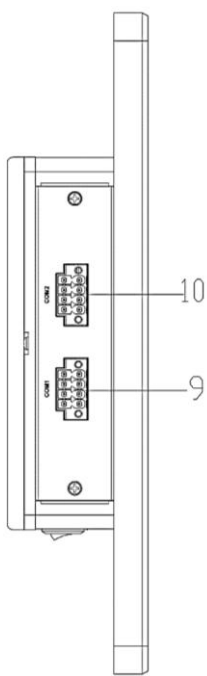
2.2 Jumpers and Connectors

System Level

Bottom-Side I/O

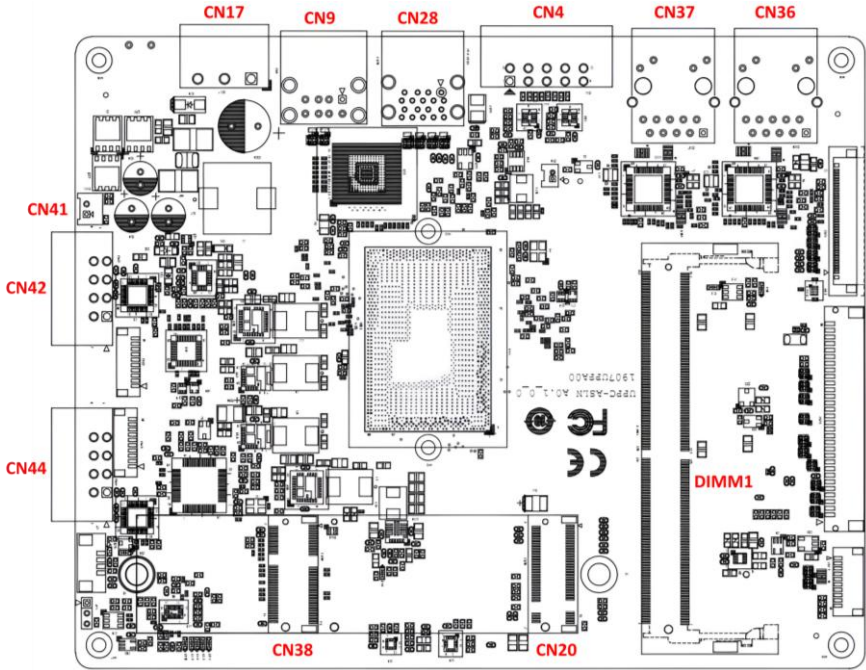


Right-Side Panel I/O

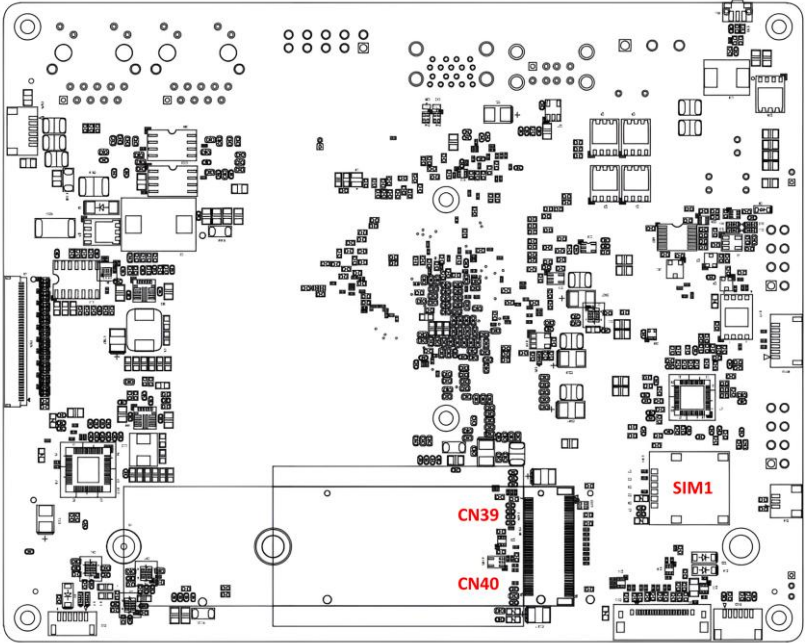


Board Level

Component Side



Solder Side



2.3 List of Jumpers, Connectors, & Physical Interfaces

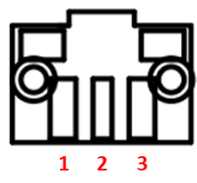
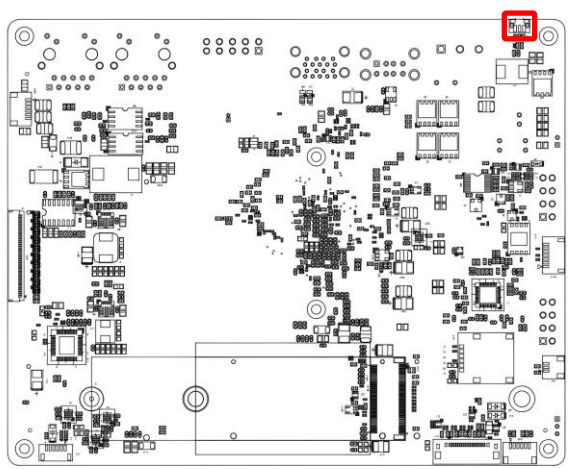
Please refer to the table below for all of the system's physical ports and interfaces.

Label	Function
1/2	2.5GbE LAN Port
3	10-pin GPIO
4	Dual USB 3.2 Gen 2 (Type-A) Dual Stack
5	Dual USB 2.0 Dual Stack
6	Phoenix Connector
7/8	Power Switch
9	COM Port 1 (8-pin RS-232/422/485 Connector)
10	COM Port 2 (8-pin RS-232/422/485 Connector)

Please refer to the table below for all of the system's internal connectors.

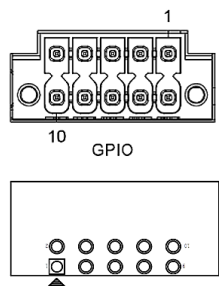
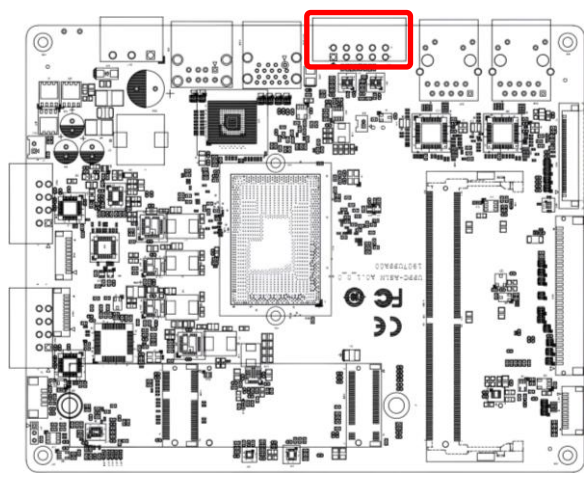
Label	Function
SW1	Power Button
CN4	GPIO Connector
CN9	USB 2.0 Dual Stack Connector
CN17	Power Input Connector
CN20	M.2 2280 M-Key Slot
CN28	USB 3.2 Gen2 (Type-A) Dual Stack Connector
CN36	2.5GbE LAN Port Connector
CN37	2.5GbE LAN Port Connector
CN38	M.2 2230 E-Key Slot
CN39	M.2 2280 M-Key Slot
CN40	M.2 3052 B-Key Slot
CN41	Power Button
CN42	COM Port 1 Connector
CN44	COM Port 2 Connector
DIMM1	DDR5 SODIMM Slot
SIM1	Nano SIM Card Slot

2.3.1 Power Button (SW1)



Pin	Signal	Pin	Signal
1	GND	2	PWR_SW#
3	GND		

2.3.2 GPIO (CN4)



Pin	Signal	Pin	Signal
1	GPIO_0	2	GPIO_1

Pin	Signal	Pin	Signal
3	GPIO_2	4	GPIO_3
5	GPIO_4	6	GPIO_5
7	GPIO_6	8	GPIO_7
9	GND	10	GND

GPIO BIOS Settings:

Aptio Setup - AMI

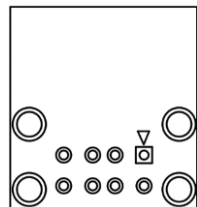
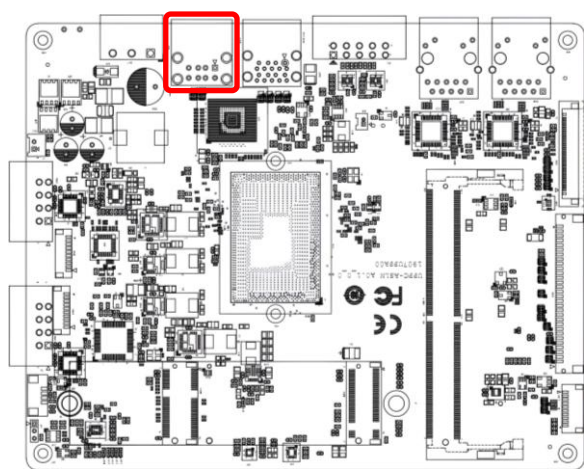
Advanced

Digital IO Port Configuration		Set DIO as Input or Output
GPIO 0 (Pin 1)	[Output]	
Output State	[High]	
GPIO 1 (Pin 2)	[Output]	
Output State	[High]	
GPIO 2 (Pin 3)	[Output]	
Output State	[High]	
GPIO 3 (Pin 4)	[Output]	
Output State	[High]	
GPIO 4 (Pin 5)	[Input]	
GPIO 5 (Pin 6)	[Input]	
GPIO 6 (Pin 7)	[Input]	
GPIO 7 (Pin 8)	[Input]	

←: Select Screen
 ↑↓: Select Item
 Enter: Select
 +/-: Change Opt.
 F1: General Help
 F2: Previous Values
 F3: Optimized Defaults
 F4: Save & Exit
 ESC: Exit

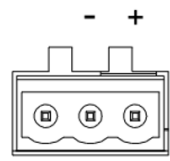
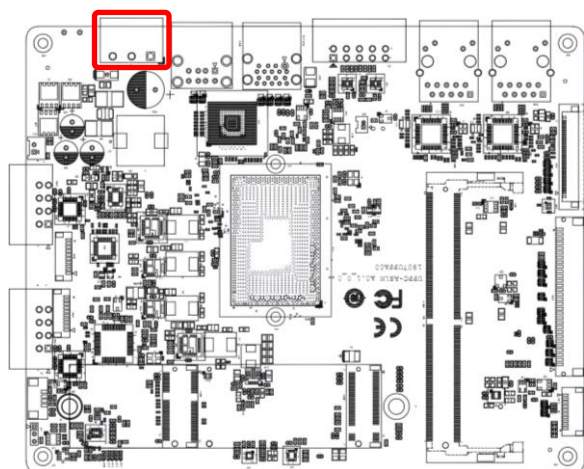
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2.3.3 USB 2.0 Dual Stack Connector (CN9)

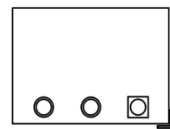


Pin	Signal	Pin	Signal
1	USB_VCC	2	USB2_P6_C_DN
3	USB2_P6_C_DP	4	GND
5	USB_VCC	6	USB2_P7_C_DN
7	USB2_P7_C_DP	8	GND

2.3.4 Power Input (CN17)

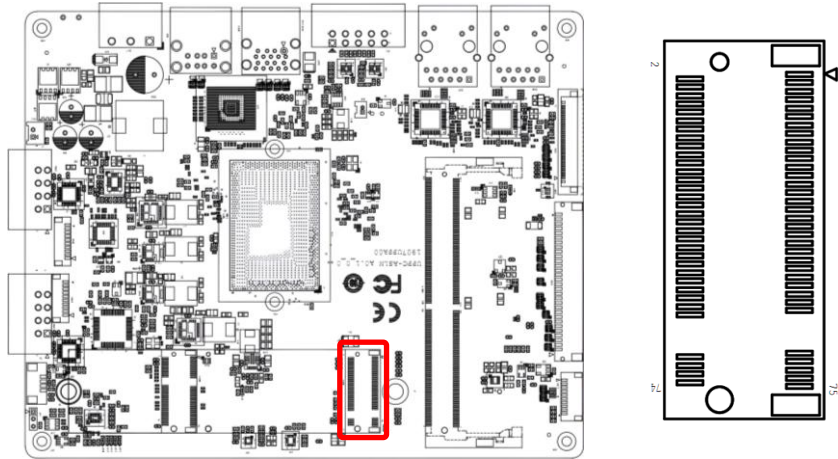


DC Input



Pin	Signal	Pin	Signal
1	GND	2	GND
3	VCC		

2.3.5 M.2 2280 M-Key Slot (CN20)

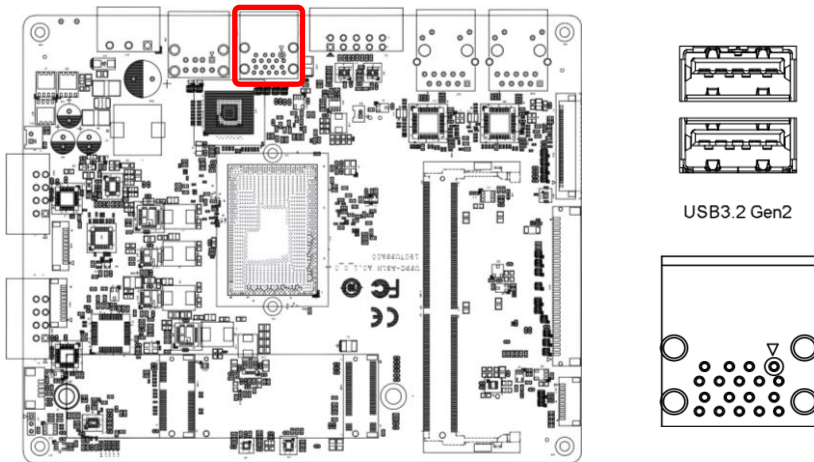


Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
1	GND	2	+3.3V	3	NC
4	+3.3V	5	PCIE9_RXN	6	NC
7	PCIE9_RXP	8	NC	9	GND
10	NC	11	PCIE9_TXN	12	+3.3V
13	PCIE9_TXP	14	+3.3V	15	GND
16	+3.3V	17	PCIE10_RXN	18	+3.3V
19	PCIE10_RXP	20	NC	21	GND
22	NC	23	PCIE10_TXN	24	NC
25	PCIE10_TXP	26	NC	27	GND
28	NC	29	PCIE11_RXN	30	NC
31	PCIE11_RXP	32	NC	33	GND
34	NC	35	PCIE11_TXN	36	NC
37	PCIE11_TXP	38	M.2_2280_DEV	39	GND
40	NC	41	PCIE12_RXP	42	NC
43	PCIE12_RXN	44	NC	45	GND
46	NC	47	PCIE12_TXN	48	NC
49	PCIE12_TXP	50	BUF_PLT_RST#	51	GND
52	NC	53	PCIE_CLK4_DN	54	PCIE_WAKE#

Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
55	PCIE_CLK4_DP	56	NC	57	GND
58	NC	59	Key-M	60	Key-M
61	Key-M	62	Key-M	63	Key-M
64	Key-M	65	Key-M	66	Key-M
67	NC	68	NC	69	SATAGP1
70	+3.3V	71	GND	72	+3.3V
73	GND	74	+3.3V	75	GND

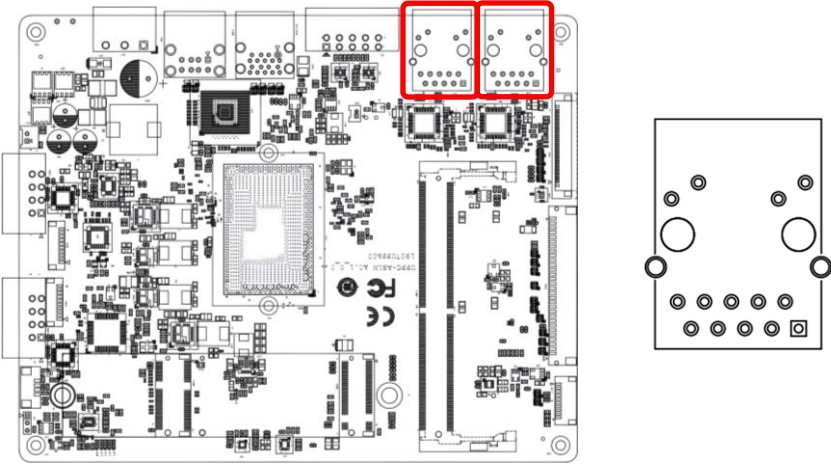
Note: Total 2.5A for M.2 M-Key slot.

2.3.6 USB 3.2 Gen 2 (Type-A) Dual Stack Connector (CN28)



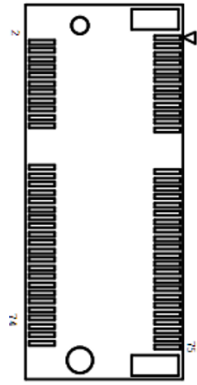
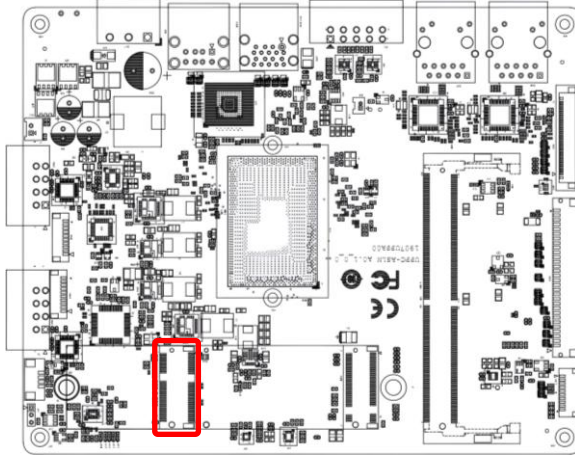
Pin	Signal	Pin	Signal
1	+V5P0_USB_1	2	USB2_C_DN1
3	USB2_C_DP1	4	GND
5	TCP0_RXN_CON	6	TCP0_RXP_CON
7	GND	8	TCP0_TXN_CON
9	TCP0_TXP_CON	10	+V5P0_USB_1
11	USB2_C_DN2	12	USB2_C_DP2
13	GND	14	TCP1_RXN_CON
15	TCP1_RXP_CON	16	GND
17	TCP1_TXN_CON	18	TCP1_TXP_CON

2.3.7 2.5GbE LAN Port (CN36/CN37)



Pin	Signal	Pin	Signal
1	NC	2	LAN_MDI0P
3	LAN_MDI0N	4	LAN_MDI1P
5	LAN_MDI1N	6	LAN_MDI2P
7	LAN_MDI2N	8	LAN_MDI3P
9	LAN_MDI3N	10	GND
11	LAN_LED_1000#	12	LAN_LED_100#
13	LAN_LED_LNK_ACT	14	LAN_LED_LNK#_ACT

2.3.8 M.2 2230 E-Key Slot (CN38)

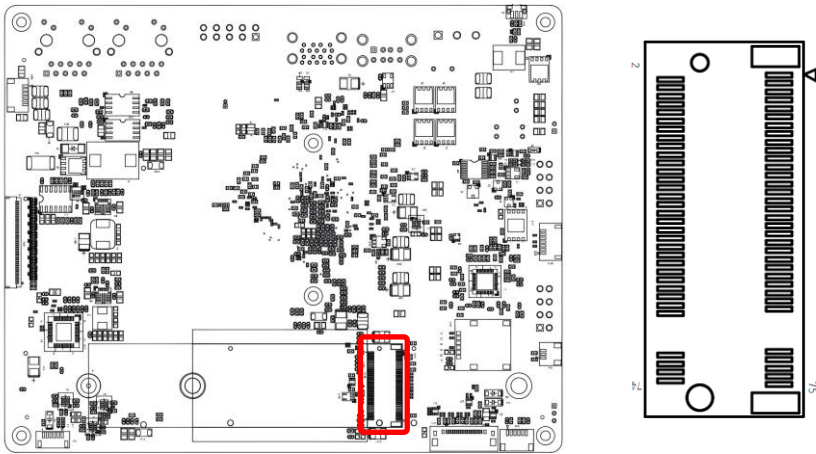


Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
1	GND	2	+3.3VAUX_WIFI	3	USB_PP8
4	+3.3VAUX_WIFI	5	USB_PN8	6	NC
7	GND	8	NC	9	CNV_WR_LANE1_DN
10	M.2_CNV_RF_RESET	11	CNV_WR_LANE1_DP	12	NC
13	GND	14	CNV_MODEM_CLK REQ	15	CNV_WR_LANE0_DN
16	NC	17	CNV_WR_LANE0_DP	18	GND
19	GND	20	NC	21	CNV_WR_CLK_DN
22	M.2_CNV_BRI_RSP	23	CNV_WR_CLK_DP	24	Key-E
25	Key-E	26	Key-E	27	Key-E
28	Key-E	29	Key-E	30	Key-E
31	Key-E	32	M.2_CNV_RGI_DT	33	GND
34	M.2_CNV_RGI_RSP	35	PCIE1_TXP	36	M.2_CNV_BRI_DT
37	PCIE1_TXN	38	NC	39	GND
40	NC	41	PCIE1_RXP	42	NC
43	PCIE1_RXN	44	CNV_PA_BLANKING	45	GND
46	NC	47	PCIE_CLK2_DP	48	NC
49	PCIE_CLK2_DN	50	NC	51	GND
52	BUF_PLT_RST#	53	NC	54	BT_EN
55	PCIE_WAKE#	56	WIFI_EN	57	GND
58	NC	59	CNV_WT_LANE1_DN	60	NC
61	CNV_WT_LANE1_DP	62	NC	63	GND

Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
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	+3.3VAUX_WIFI
73	CNV_WT_CLK_DP	74	+3.3VAUX_WIFI	75	GND

Note: Total 2.5A for M.2 E-Key slot.

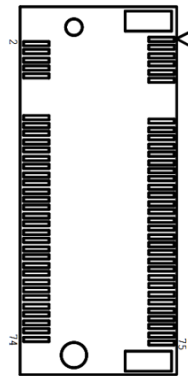
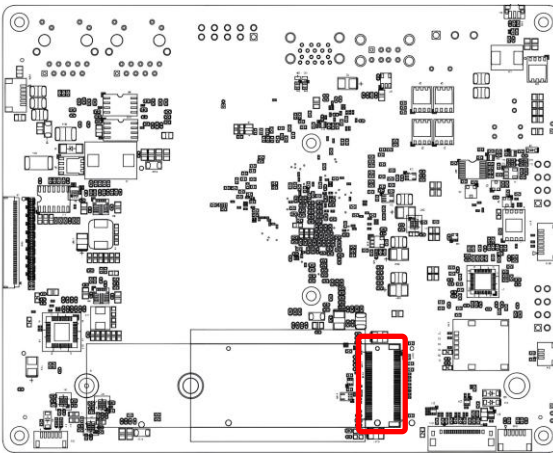
2.3.9 M.2 2280 M-Key Slot (CN39)



Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
1	GND	2	+3.3V_NGFF	3	GND
4	+3.3V_NGFF	5	NC	6	NC
7	NC	8	3GPW_EN	9	NC
10	NC	11	NC	12	+3.3V_NGFF
13	NC	14	+3.3V_NGFF	15	GND
16	+3.3V_NGFF	17	NC	18	+3.3V_NGFF
19	NC	20	NC	21	GND
22	NC	23	NC	24	NC
25	NC	26	NC	27	GND
28	NC	29	USB3_RXN	30	P_UIM_RST
31	USB3_RXP	32	P_UIM_CLK	33	GND
34	P_UIM_DAT	35	USB3_TXN	36	P_UIM_PWR
37	USB3_TXP	38	NC	39	GND
40	NC	41	PCIE4_RX_N	42	NC

Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
43	PCIE4_RX_P	44	NC	45	GND
46	NC	47	PCIE4_TX_N	48	NC
49	PCIE4_TX_P	50	BUF_PLT_RST#	51	GND
52	NC	53	PCIE_CLK3_DN	54	PCIE_WAKE#
55	PCIE_CLK3_DP	56	NC	57	GND
58	NC	59	KEY-M	60	KEY-M
61	KEY-M	62	KEY-M	63	KEY-M
64	KEY-M	65	KEY-M	66	KEY-M
67	NC	68	NC	69	NC
70	+3.3V_NGFF	71	GND	72	+3.3V_NGFF
73	GND	74	+3.3V_NGFF	75	GND

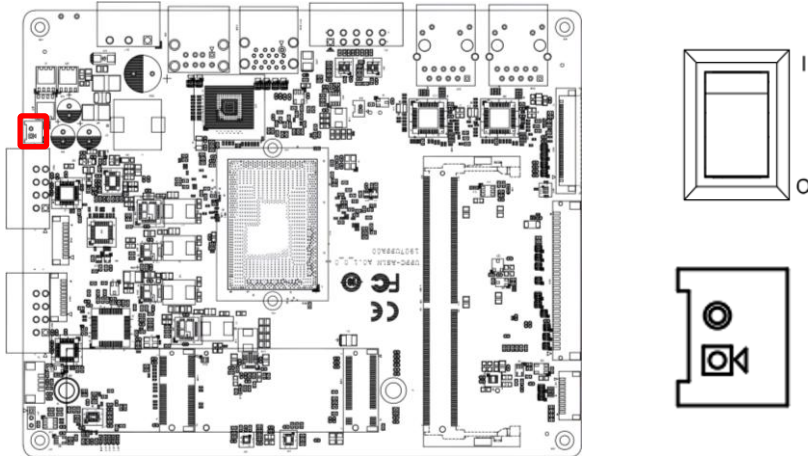
2.3.10 M.2 3052 B-Key Slot (CN40)



Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
1	NC	2	+3.3V	3	GND
4	+3.3V	5	NC	6	FULL_CARD_POWER
7	USB_DP	8	3GPW_EN	9	USB_DM
10	NC	11	GND	12	KEY-B
13	KEY-B	14	KEY-B	15	KEY-B
16	KEY-B	17	KEY-B	18	KEY-B
19	KEY-B	20	NC	21	NC
22	NC	23	NC	24	NC
25	NC	26	NC	27	GND

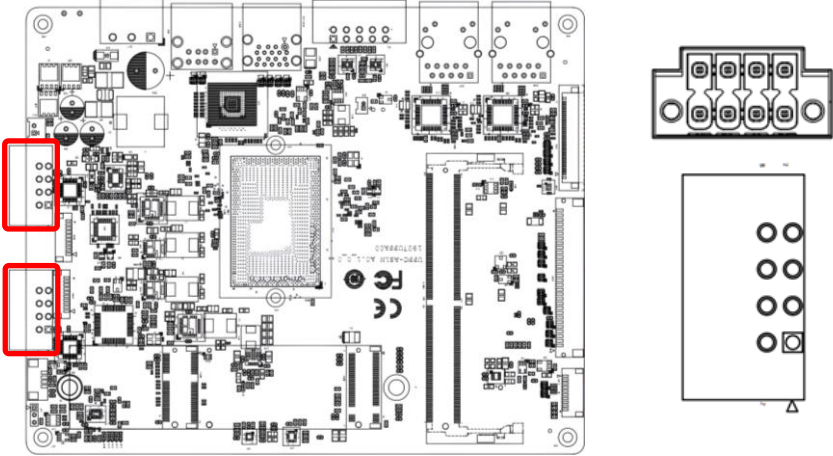
Pin	Signal Description	Pin	Signal Description	Pin	Signal Description
28	NC	29	USB3_RXN_5G	30	P_UIM_RST
31	USB3_RXP_5G	32	P_UIM_CLK	33	GND
34	P_UIM_DAT	35	USB3_TXN_5G	36	P_UIM_PWR
37	USB3_TXP_5G	38	PCIe_BOOT_Disable	39	GND
40	SMB_CLK_1V8	41	PCIe_P4_RX_DN	42	SMB_DATA_1V8
43	PCIe_P4_RX_DP	44	NC	45	GND
46	NC	47	PCIe_P4_TX_DN	48	NC
49	PCIe_P4_TX_DP	50	5G_WWAN_PERSTNC	51	GND
52	NC	53	PCIe_CLK3_DN	54	Wake_M2
55	PCIe_CLK3_DP	56	NC	57	GND
58	NC	59	NC	60	NC
61	NC	62	NC	63	NC
64	NC	65	NC	66	NC
67	WWAN_RESET	68	SUSCLK_M2	69	PEDET
70	+3.3V	71	GND	72	+3.3V
73	GND	74	+3.3V	75	NC

2.3.11 Power Switch (CN41)



Pin	Signal	Pin	Signal
1	VCC	2	PWR_ON#

2.3.12 COM Port 1/COM Port 2 (CN42/CN44)



Pin	Signal	RS-422	RS-485
1	DCD	(TxD-)	D-
2	RX	(TxD+)	D+
3	TX	(RxD+)	
4	DTR	(RxD-)	
5	DSR		
6	RTS		
7	CTS		
8	GND		

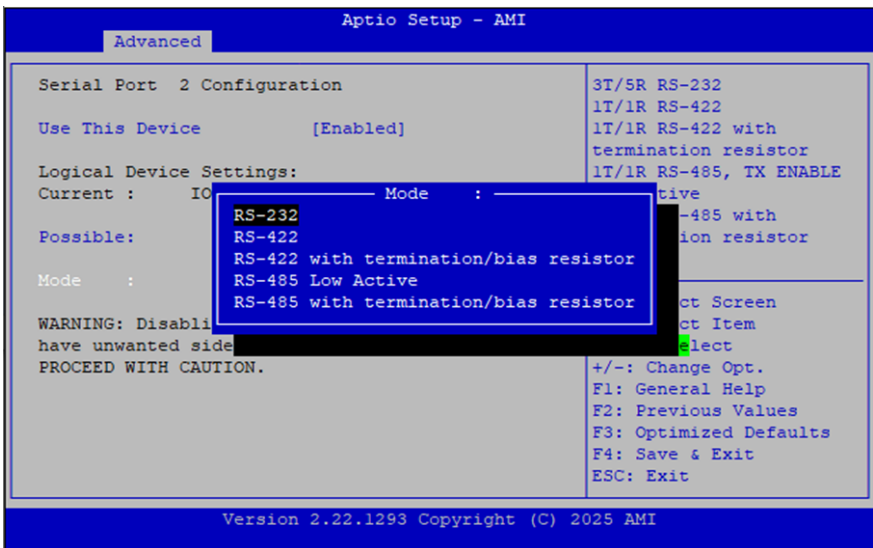
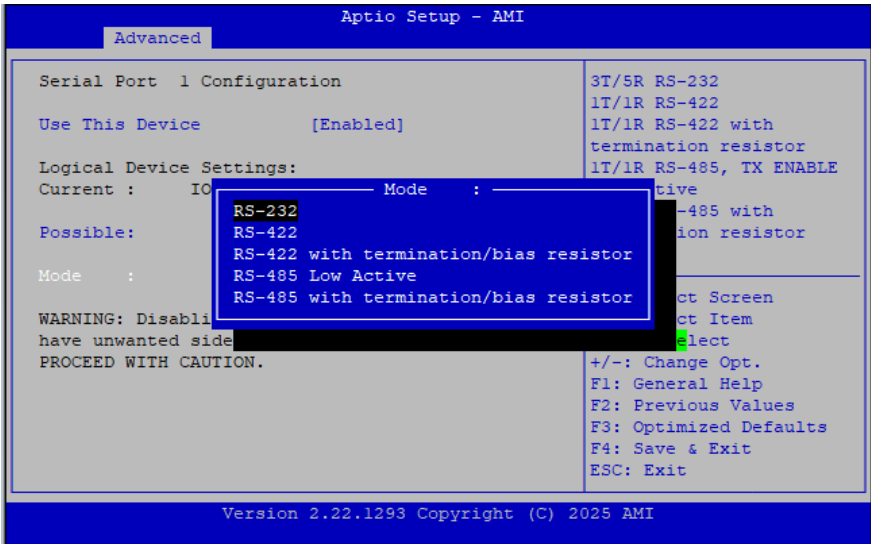
COM 1/COM 2: RS-232/422/485 BIOS Configuration

To configure the interface mode for Serial Port 1 (COM1) or Serial Port 2 (COM2) in the BIOS, follow the procedure below:

- 1. Enter BIOS Setup**
Power on the Panel PC and press the **[Del]** key during startup to enter the BIOS setup utility.
- 2. Navigate to SIO Configuration**
From the BIOS main menu, select **[Advanced]**, then choose **[SIO Configuration]**.
- 3. Select the Target Serial Port**
In the **[SIO Configuration]** menu, select:
 - o **[Active] Serial Port 1** to configure COM1, or
 - o **[Active] Serial Port 2** to configure COM2.

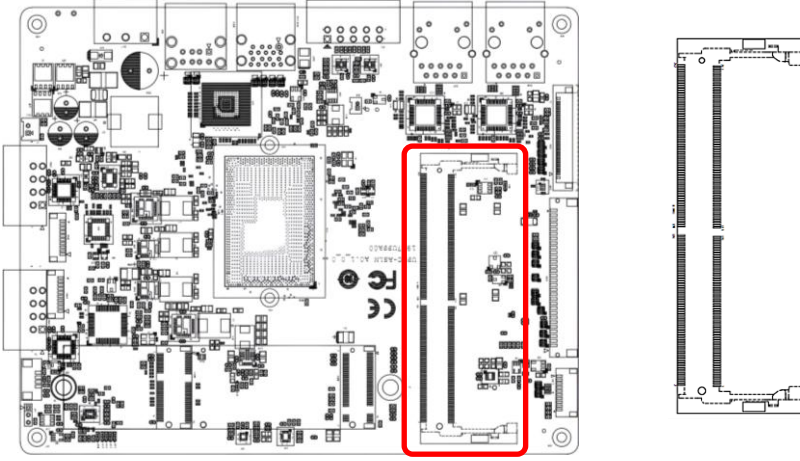
4. Choose Interface Mode

Within the selected serial port settings, choose the desired interface mode. Five configuration options are available, as illustrated in the corresponding reference image.



After completing the configuration, save the changes and exit the BIOS setup to apply the selected settings.

2.3.13 DDR5 SODIMM Slot (DIMM1)



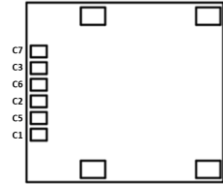
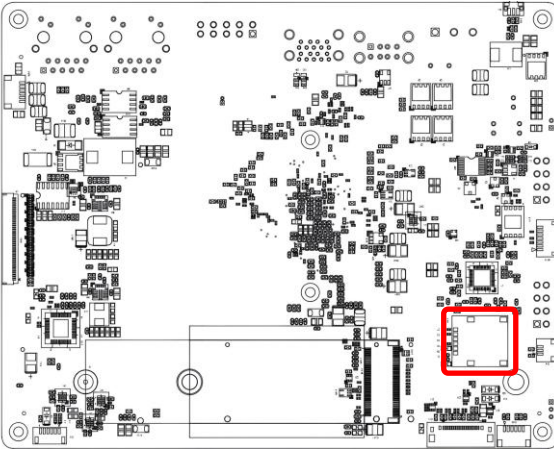
Pin	Signal	Pin	Signal
1	VIN_DDR5	2	DIMM1_CO_SA0
3	VIN_DDR5	4	SMB_CLK_S
5	NC	6	SMB_DATA_S
7	DRAM_PWR_GOOD	8	DRAM0_PWR_EN
9	GND	10	GND
11	DDR2_DQ1_0	12	DDR2_DQ1_2
13	GND	14	GND
15	DDR2_DQ1_1	16	DDR2_DQ1_3
17	GND	18	GND
19	GND	20	DDR2_DQSN_1
21	GND	22	DDR2_DQSP_1
23	DDR2_DQ1_4	24	GND
25	GND	26	DDR2_DQ1_6
27	DDR2_DQ1_5	28	GND
29	GND	30	DDR2_DQ1_7
31	DDR2_DQ0_4	32	GND
33	GND	34	DDR2_DQ0_7
35	DDR2_DQ0_0	36	GND
37	GND	38	DDR2_DQ0_5
39	DDR2_DQSN_0	40	GND
41	DDR2_DQSP_0	42	GND
43	GND	44	GND

Pin	Signal	Pin	Signal
45	DDR2_DQ0_6	46	DDR2_DQ0_3
47	GND	48	GND
49	DDR2_DQ0_2	50	DDR2_DQ0_1
51	GND	52	GND
53	DDR2_DQ2_2	54	DDR2_DQ2_0
55	GND	56	GND
57	DDR2_DQ2_1	58	DDR2_DQ2_3
59	GND	60	GND
61	GND	62	DDR2_DQSP_2
63	GND	64	DDR2_DQSP_2
65	DDR2_DQ2_5	66	GND
67	GND	68	DDR2_DQ2_4
69	DDR2_DQ2_7	70	GND
71	GND	72	DDR2_DQ2_6
73	DDR2_DQ3_6	74	GND
75	GND	76	DDR2_DQ3_5
77	DDR2_DQ3_7	78	GND
79	GND	80	DDR2_DQ3_0
81	DDR2_DQSN_3	82	GND
83	DDR2_DQSP_3	84	GND
85	GND	86	GND
87	DDR2_DQ3_1	88	DDR2_DQ3_3
89	GND	90	GND
91	DDR2_DQ3_2	92	DDR2_DQ3_4
93	GND	94	GND
95	NC	96	NC
97	GND	98	GND
99	NC	100	NC
101	GND	102	NC
103	NC	104	GND
105	GND	106	DDR2_CS0
107	DDR2_CA0	108	NC
109	DDR2_CA1	110	DDR2_CS1
111	GND	112	GND
113	DDR2_CA2	114	DDR2_CA3
115	DDR2_CA4	116	DDR2_CA5
117	GND	118	GND
119	DDR2_CA6	120	DDR2_CA7
121	DDR2_CA8	122	DDR2_CA9

Pin	Signal	Pin	Signal
123	GND	124	GND
125	DDR2_CA10	126	DDR2_CA11
127	DDR2_CA12	128	NC
129	GND	130	GND
131	DDR2_CLK_P_0	132	NC
133	DDR2_CLK_N_0	134	NC
135	GND	136	GND
137	DDR3_CLK_P_0	138	NC
139	DDR3_CLK_N_0	140	NC
141	GND	142	GND
143	NC	144	DDR3_CA12
145	DDR3_CA11	146	DDR3_CA10
147	GND	148	GND
149	DDR3_CA9	150	DDR3_CA8
151	DDR3_CA7	152	DDR3_CA6
153	GND	154	GND
155	DDR3_CA5	156	DDR3_CA4
157	DDR3_CA3	158	DDR3_CA2
159	GND	160	GND
161	DDR3_CS0	162	DDR3_CA1
163	DRAM_RST_N_R	164	DDR3_CA0
165	DDR3_CS1	166	GND
167	GND	168	NC
169	NC	170	GND
171	NC	172	NC
173	GND	174	GND
175	NC	176	NC
177	GND	178	GND
179	DDR3_DQ2_1	180	DDR3_DQ2_2
181	GND	182	GND
183	DDR3_DQ2_3	184	DDR3_DQ2_0
185	GND	186	GND
187	GND	188	DDR3_DQSN_2
189	GND	190	DDR3_DQSP_2
191	DDR3_DQ2_6	192	GND
193	GND	194	DDR3_DQ2_7
195	DDR3_DQ2_5	196	GND
197	GND	198	DDR3_DQ2_4
199	DDR3_DQ3_0	200	GND

Pin	Signal	Pin	Signal
201	GND	202	DDR3_DQ3_5
203	DDR3_DQ3_3	204	GND
205	GND	206	DDR3_DQ3_4
207	DDR3_DQSN_3	208	GND
209	DDR3_DQSP_3	210	GND
211	GND	212	GND
213	DDR3_DQ3_6	214	DDR3_DQ3_7
215	GND	216	GND
217	DDR3_DQ3_1	218	DDR3_DQ3_2
219	GND	220	GND
221	DDR3_DQ0_0	222	DDR3_DQ0_2
223	GND	224	GND
225	DDR3_DQ0_1	226	DDR3_DQ0_3
227	GND	228	GND
229	GND	230	DDR3_DQSN_0
231	GND	232	DDR3_DQSP_0
233	DDR3_DQ0_4	234	GND
235	GND	236	DDR3_DQ0_6
237	DDR3_DQ0_7	238	GND
239	GND	240	DDR3_DQ0_5
241	DDR3_DQ1_5	242	GND
243	GND	244	DDR3_DQ1_7
245	DDR3_DQ1_6	246	GND
247	GND	248	DDR3_DQ1_4
249	DDR3_DQSN_1	250	GND
251	DDR3_DQSP_1	252	GND
253	GND	254	GND
255	DDR3_DQ1_2	256	DDR3_DQ1_3
257	GND	258	GND
259	DDR3_DQ1_0	260	DDR3_DQ1_1
261	GND	262	GND

2.3.14 Nano SIM Card Slot (SIM1)



Pin	Signal	Pin	Signal
C1	UIM_PWR	C2	UIM_RST
C3	UIM_CLK	C5	UIM_GND
C6	NC	C7	UIM_DAT

Chapter 3

Software Installation

3.1 Linux Setup

The UPPC-ASLN15 is compatible with Linux operating systems (refer to Chapter 1 for detailed specifications). Follow the steps below to install Linux on your Panel PC:

1. Access the official Ubuntu release page: <https://releases.ubuntu.com/jammy/>
2. Locate the file ubuntu-22.04.5-desktop-amd64.iso and copy it to a USB drive.
3. Insert the USB drive into the UPPC-ASLN15 and boot the system from the USB device.
4. Follow the on-screen prompts. Click **Next** where required and complete the installation process according to the instructions provided by the installer.

3.2 Windows Drivers Installation

Drivers for the UPPC-ASLN15 can be downloaded from

[UPPC-ASLN Driver Package.zip](#) and navigating to the Downloads section.

Appendix A

Cables and Connectors

A.1 Cables and Connectors

This table provides detailed information about the cables and connectors used by the UPPC-ASLN15. If you have any questions about the configuration of your system, please contact your AAEON sales representative.

Function	Mating Connector		AAEON P/N
	Vendor	Model No.	
COM Wafer	DINKLE	0159-0108	16522X0055
GPIO Wafer	DINKLE	0159-0110	16522X0104
Power Wafer	DINKLE	2ESDV-03P-BK	16522X0111