

mITX-H610E (MH610EI-SI)

Mini-ITX Motherboard

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Packing List

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

Item	Quantity
mITX-H610E MB	1
IO Shield	1
SATA Cable	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 GIGAIPC.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
GIGAIPC Main Board/ Daughter Board/ Backplane

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	○	○	○	○	○	○
○: 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 SJ/T 11363-2006 标准规定的限量要求以下。 X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。 备注: 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。						

China RoHS Requirement (EN)

Poisonous or Hazardous Substances or Elements in Products GIGAIPC Main Board/ Daughter Board/ Backplane

Component	Poisonous or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
PCB & Other Components	O	O	O	O	O	O
Wires & Connectors for External Connections	O	O	O	O	O	O
O : The quantity of poisonous or hazardous substances or elements found in each of the component's parts is below the SJ/T 11363-2006-stipulated requirement. X: The quantity of poisonous or hazardous substances or elements found in at least one of the component's parts is beyond the SJ/T 11363-2006-stipulated requirement. Note: The Environment Friendly Use Period as labeled on this product is applicable under normal usage only						

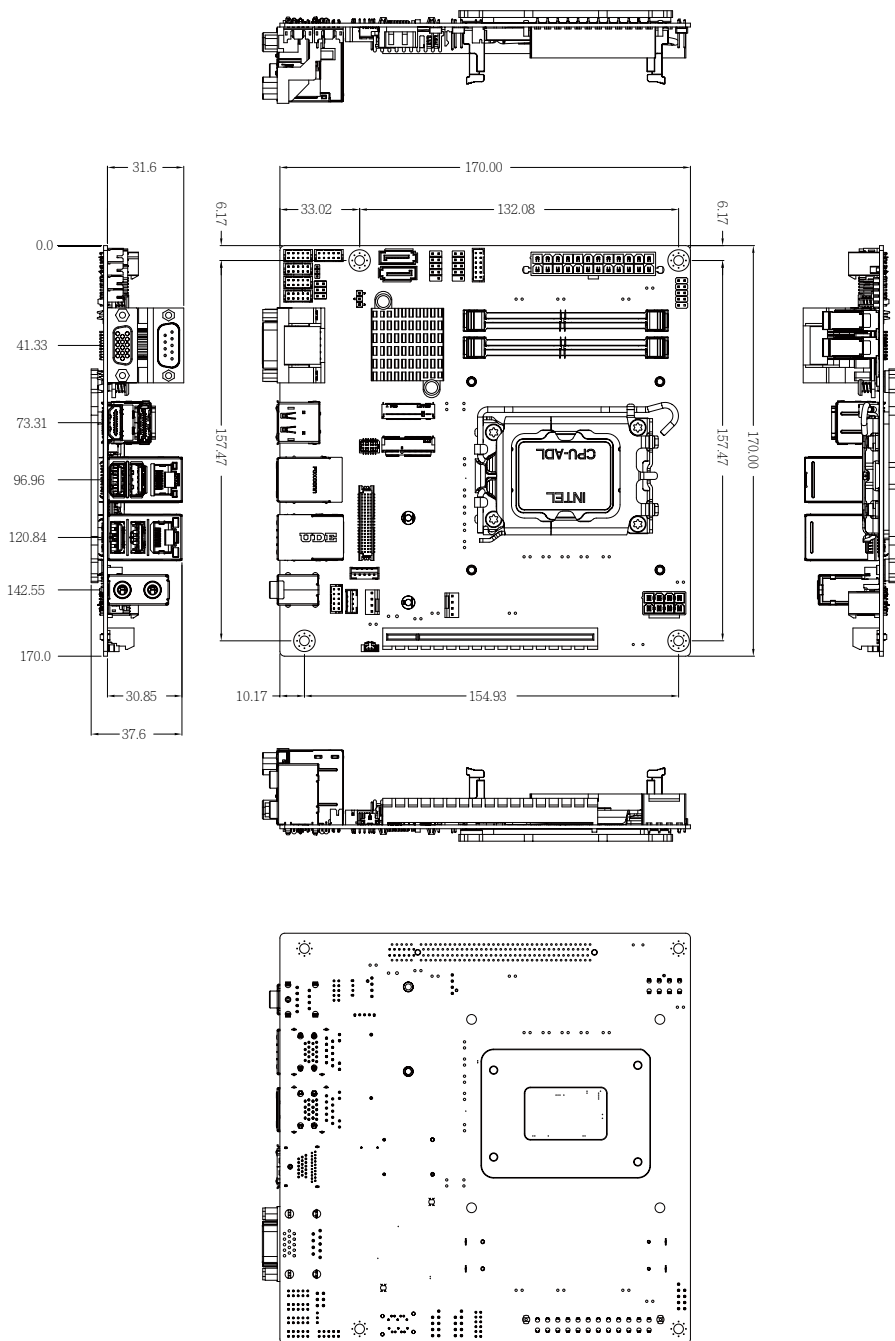
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Chapter 1

Chapter 1 - Product Specifications



1.1 Specifications

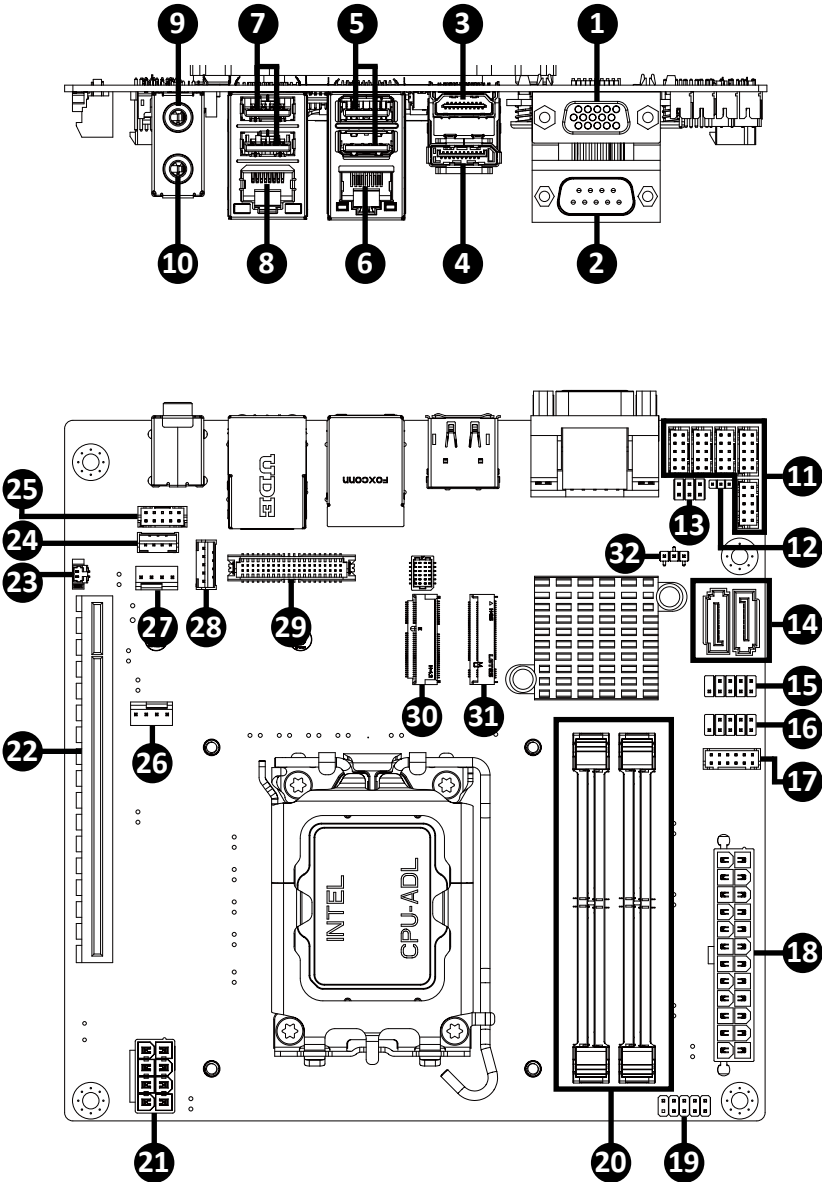
Motherboard	mITX-H610E (MH610EI-SI)
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support for 13th/12th Generation Intel® Core™ i9/ i7/ i5/ i3, Pentium® and Celeron® processors in the LGA1700 package TDP under 65W
Socket	1 x LGA 1700
Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB Support Dual channel DDR5 4800 MHz memory modules
Ethernet	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x VGA port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz (3 independent display outputs)
Audio	Realtek® ALC897
Storage	2 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen 3x16) 1 x 2280 M.2 M-Key (PCIe Gen 3x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (WiFi/BT)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper

Motherboard	mITX-H610E (MH610EI-SI)
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x D-Sub 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
OS Compatibility	Windows® 10/11 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing)

Chapter 2

Chapter 2 – Hardware Information

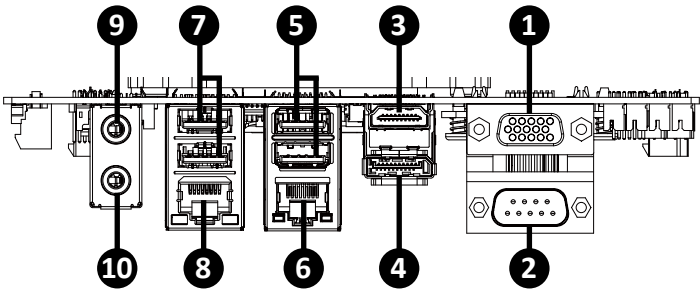
2.1 Jumpers and Connectors



No	Code	Description
1	VGA	VGA Port
2	COM1	COM1 Port (RS-232/422/485 & RI/5V/12V)
3	HDMI_DP	HDMI Connector
4		Display Port Connector
5	USB32_LAN1	USB 3.2 Gen 1 Connector
6		GbE LAN port
7	USB32_LAN2	USB 3.2 Gen 1 Connector
8		2.5GbE LAN port
9	AUDIO	Mic In port (Pink)
10		Line Out port (Green)
11	COM2, COM3, COM4, COM5, COM6	Serial port COM2 : RS-232/422/485 COM3, COM4, COM5, COM6 : RS-232
12	AT_CN	AT/ATX mode select jumper
13	JCOM1	RI# pin RI#/5V/12V Select jumper for COM1 port
14	SATA4, SATA5	SATA 6Gb/s Connector x 2
15	FUSB2_2	USB 2.0 header
16	FUSB2_1	USB 2.0 header
17	GPIO_CNT	General purpose input/output header
18	ATX	24-pin ATX main power connector
19	SYS_PANEL	System Panel header
20	SODIMM1, SODIMM2	2 x DDR5 SO-DIMM Sockets
21	ATX_12V	8-pin ATX 12V power connector
22	PCIEX16	1 x PCIe x16 (Gen 3x16 bus) slot

No	Code	Description
23	BATTERY	Battery Connector
24	SPEAKER	Speaker out Connector
25	FP_AUDIO	Front Panel Audio header
26	CPU_FAN	CPU FAN Connector
27	SYS_FAN	System Fan Connector
28	BKL_CN	Backlight control header
29	LVDS	LVDS connector
30	M2E	M.2 Slot, 2230 E-Key
31	M2M	M.2 Slot, 2280 M-Key
32	CLR_CMOS	Clear CMOS jumper

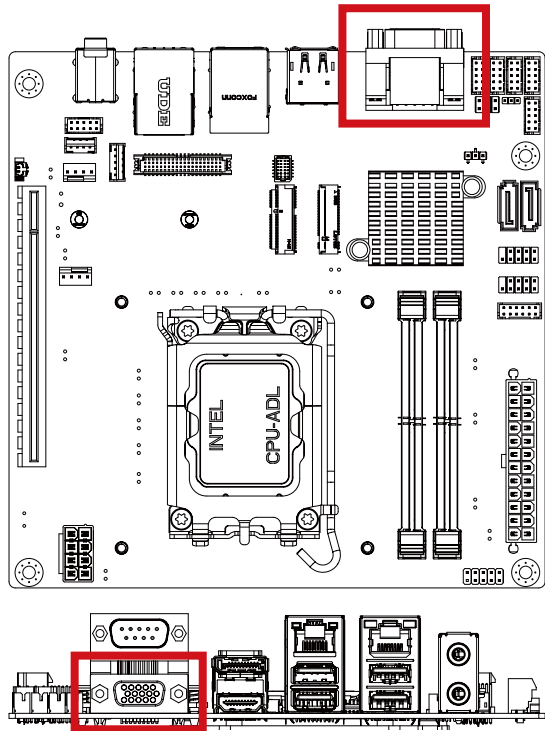
2.2.1 IO Connector Information



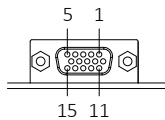
	Code	Description
1	VGA	VGA Port
2	COM1	COM1 Port (RS-232/422/485 & RI/5V/12V)
3	HDMI_DP	HDMI Connector
4		Display Port Connector
5	USB32_LAN1	USB 3.2 Gen 1 Connector
6		GbE LAN port
7	USB32_LAN2	USB 3.2 Gen 1 Connector
8		2.5GbE LAN port
9	AUDIO	Mic In port (Pink)
10		Line Out port (Green)

2.2.2 VGA (VGA Port)

1



D-sub Connector



Connector PN

DZ11AA1-H5A7-4F

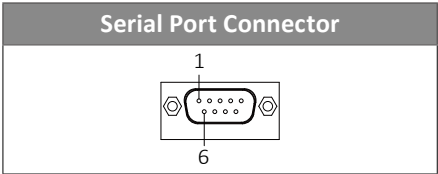
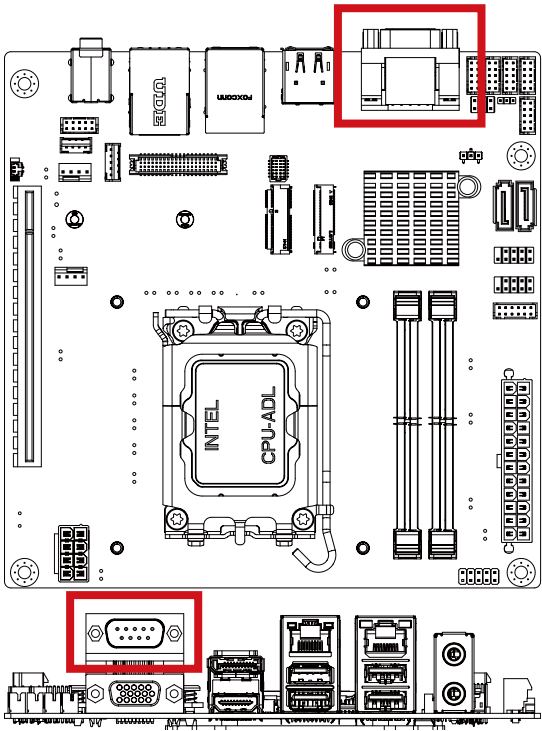
Vendor

FOXCONN

Pin No.	Definition	Pin No.	Definition
1	Red	9	5V
2	Green	10	GND
3	Blue	11	NC
4	NC	12	DDCSDA
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	DDCSCL
8	GND		

2.2.3 COM1 (COM1 Port (RS-232/422/485 & RI/5V/12V))

2

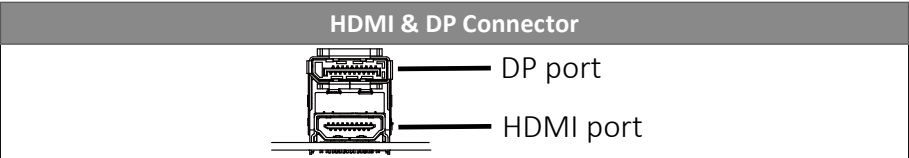
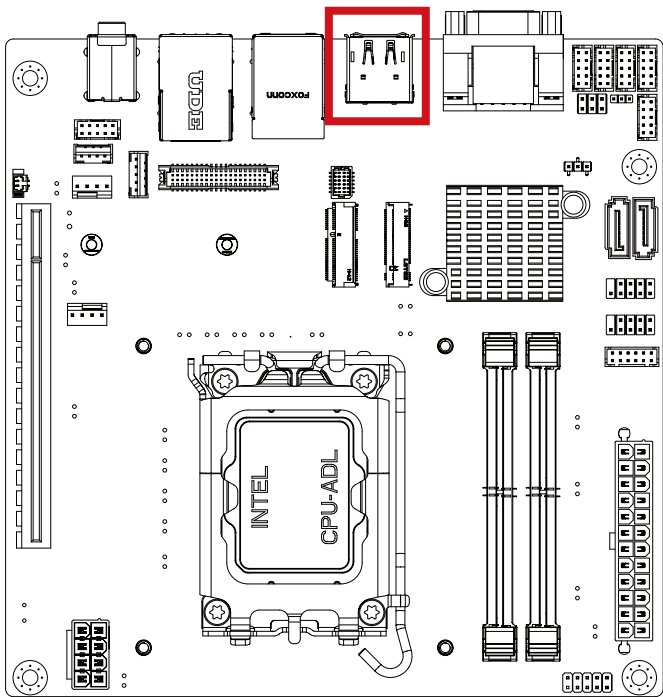


Connector PN	Vendor
DM10151-N5W3-4F	FOXCONN

Pin No.	RS-232	RS-422 Full Duplex	RS-485 Half Duplex
1	DCD	TXD-	D-
2	RXD	TXD+	D+
3	TXD	RXD+	—
4	DTR	RXD-	—
5	GND		
6	DSR	—	—
7	RTS	—	—
8	CTS	—	—
9	RI	—	—

2.2.4 HDMI_DP (HDMI + DP Connector)

3 4

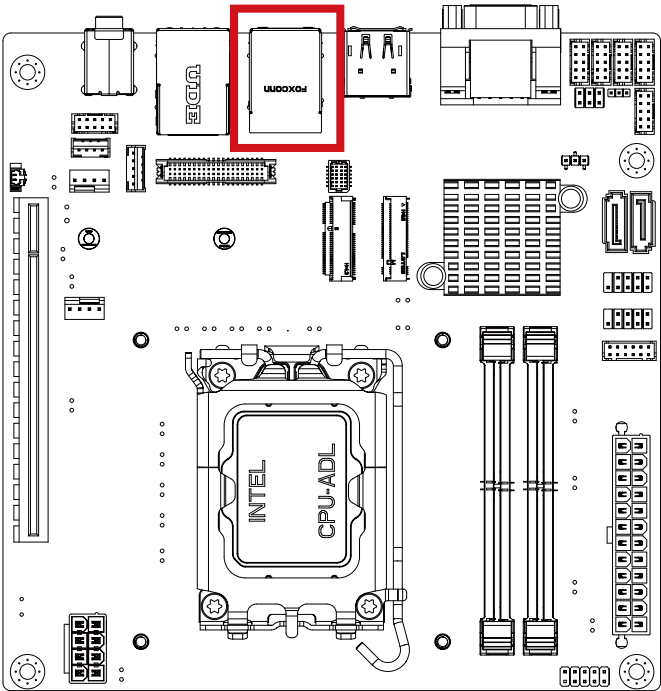


HDMI Connector			
Pin No.	Definition	Pin No.	Definition
1	TX2p	11	GND
2	GND	12	CLKn
3	TX2n	13	NC
4	TX1p	14	NC
5	GND	15	SCL
6	TX1n	16	SDA
7	TX0p	17	GND
8	GND	18	5V
9	TX0n	19	Hot Plug Detect
10	CLKp		

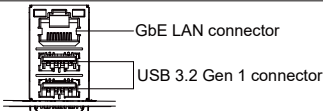
DP Connector			
Pin No.	Definition	Pin No.	Definition
1	TX0p	11	GND
2	GND	12	TX3n
3	TX0n	13	GND
4	TX1p	14	GND
5	GND	15	AUXp
6	TX1n	16	GND
7	TX2p	17	AUXn
8	GND	18	Hot Plug Detect
9	TX2n	19	3.3V
10	TX3p	20	3.3V

2.2.5 USB32_LAN1 (USB + GbE LAN Connector)

5 6



USB & LAN Connector



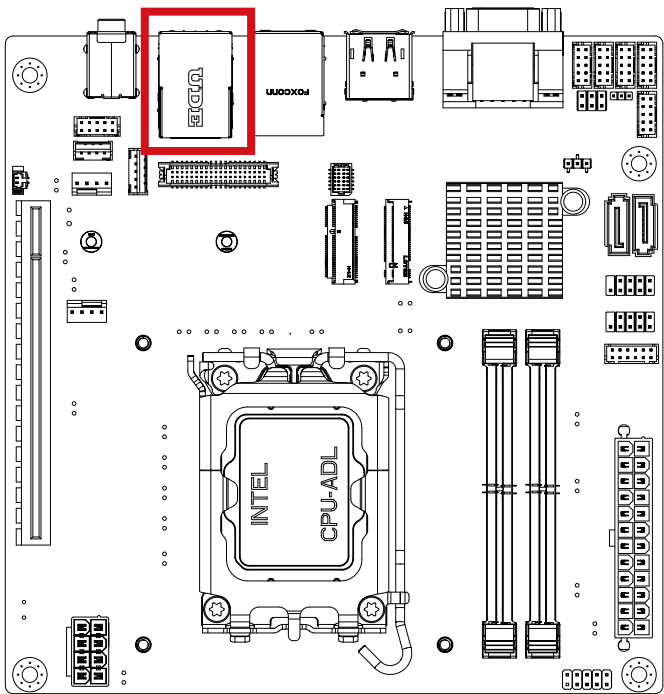
USB Connector			
Pin No.	Definition	Pin No.	Definition
1	5V	10	5V
2	D1n	11	D0n
3	D1p	12	D0p
4	GND	13	GND
5	USB3_RX1n	14	USB3_RX2n
6	USB3_RX1p	15	USB3_RX2p
7	GND	16	GND
8	USB3_TX1n	17	USB3_TX2n
9	USB3_TX1p	18	USB3_TX2p

LAN Connector			
Pin No.	Definition	Pin No.	Definition
1	TX1+	4	TX3+
2	TX1-	5	TX3-
3	TX2+	7	TX4+
6	TX2-	8	TX4-

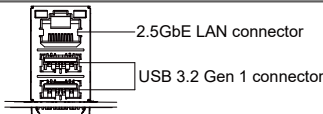
State	Description
Orange On	1Gbps data rate
Green On	100Mbps data rate
Off	10Mbps data rate

2.2.6 USB32_LAN2 (USB + 2.5GbE LAN Connector)

7 8



USB & LAN Connector



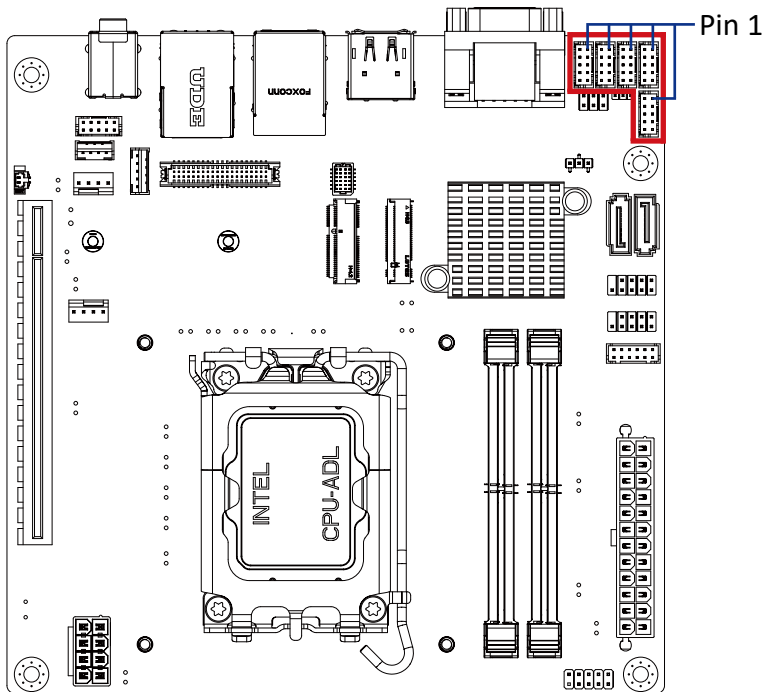
USB Connector			
Pin No.	Definition	Pin No.	Definition
1	5V	10	5V
2	D1n	11	D0n
3	D1p	12	D0p
4	GND	13	GND
5	USB3_RX1n	14	USB3_RX2n
6	USB3_RX1p	15	USB3_RX2p
7	GND	16	GND
8	USB3_TX1n	17	USB3_TX2n
9	USB3_TX1p	18	USB3_TX2p

LAN Connector			
Pin No.	Definition	Pin No.	Definition
1	TX1+	4	TX3+
2	TX1-	5	TX3-
3	TX2+	7	TX4+
6	TX2-	8	TX4-

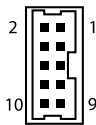
State	Description
Orange On	2.5Gbps data rate
Green On	1Gbps data rate
Off	100M&10Mbps data rate

2.2.7 COM2, COM3, COM4, COM5, COM6 (Serial port)

11



Serial port header



Pin No.	RS-232	RS-422 Full Duplex	RS-485 Half Duplex
1	RXD	TXD+	D+
2	DCD	TXD-	D-
3	DTR	RXD-	—
4	TXD	RXD+	—
5	DSR	—	—
6	GND	—	—
7	CTS	—	—
8	RTS	—	—
9	No Connect	—	—
10	RI	—	—

Connector PN

725-81-10TW00

Vendor

PINREX

Connector type

2x5pin header, pitch 2.0mm

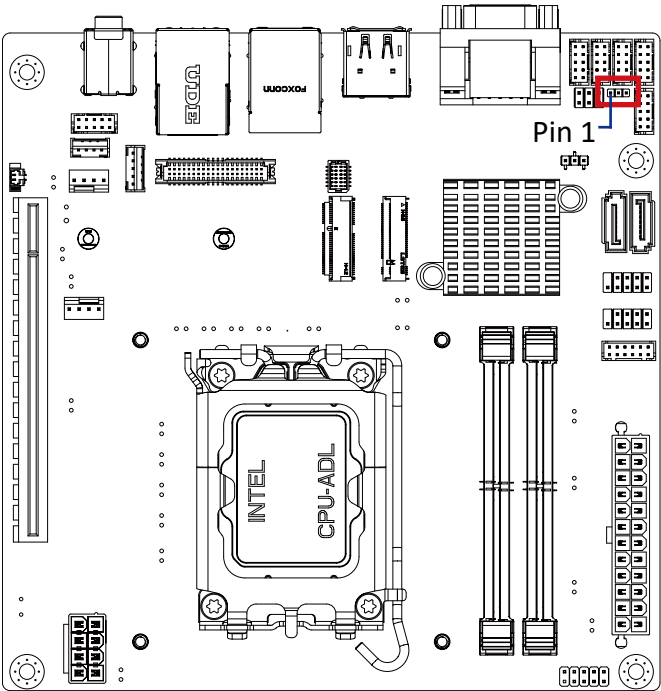
Note :

COM2 : Support RS-232/422/485

COM3, COM4, COM5, COM6 : Support RS-232 only

2.2.8 AT_CN (AT/ATX mode select jumper)

12



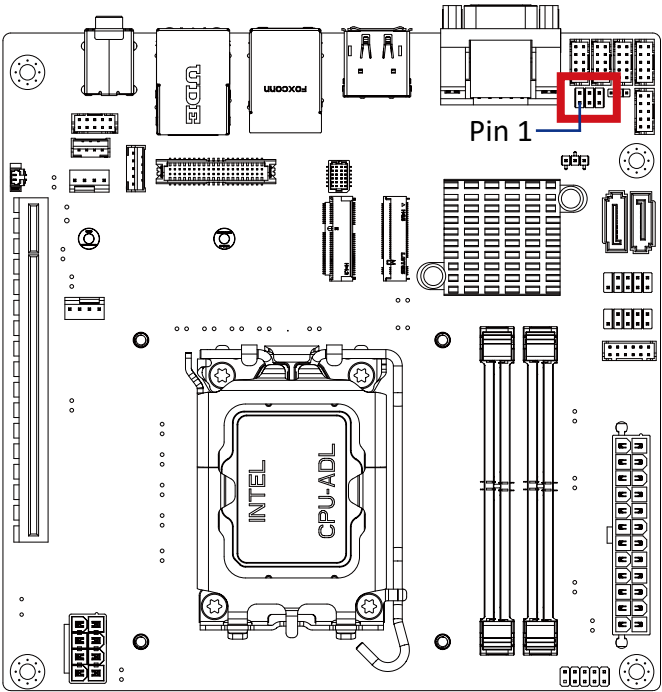
AT/ATX mode select jumper
1

Pin No.	Definition
1	AT MODE
2	Detect
3	ATX MODE
Jumper setting	
1-2 Close : AT mode.	
2-3 Close : ATX mode.(Default setting)	

Connector PN	Vendor
220-96-03GB001K	PINREX
PH03N2-7BAN000	HORNGTONG
Connector type	
1x3pin header, pitch 2.0mm	

2.2.9 JCOM1 (RI# pin RI#/5V/12V Select jumper for COM1 Port)

13



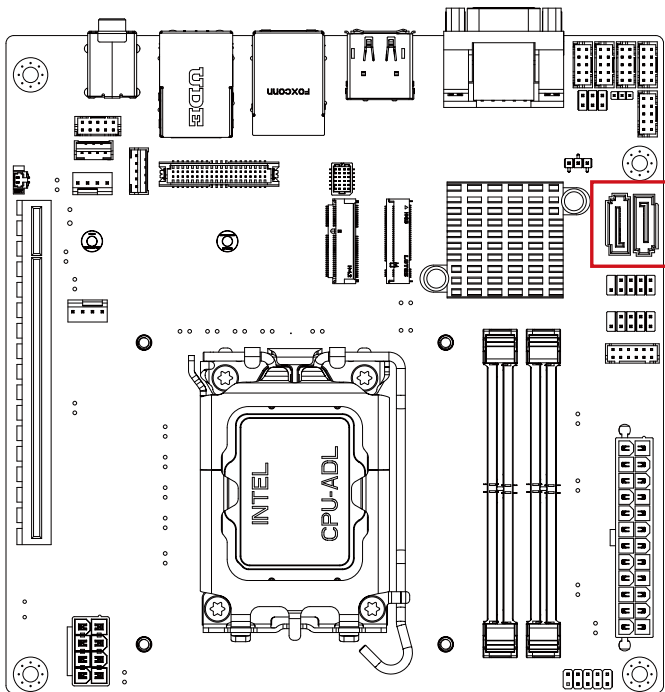
JCOM1 Jumper Select	
2 8 6 1 8 5	1-2 Close: 5V (Power COM)
2 8 6 1 8 5	3-4 Close: RI (Stand COM)
2 8 6 1 8 5	5-6 Close: 12V (Power COM)

Connector PN	Vendor
210-92-03GB01	PINREX
PH06R53BAZ000	HORNGTONG

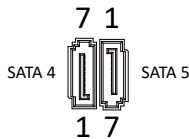
Connector type
2x3pin header, pitch 2.54mm

2.2.10 SATA4, SATA5 (SATA 6Gb/s Connector)

14



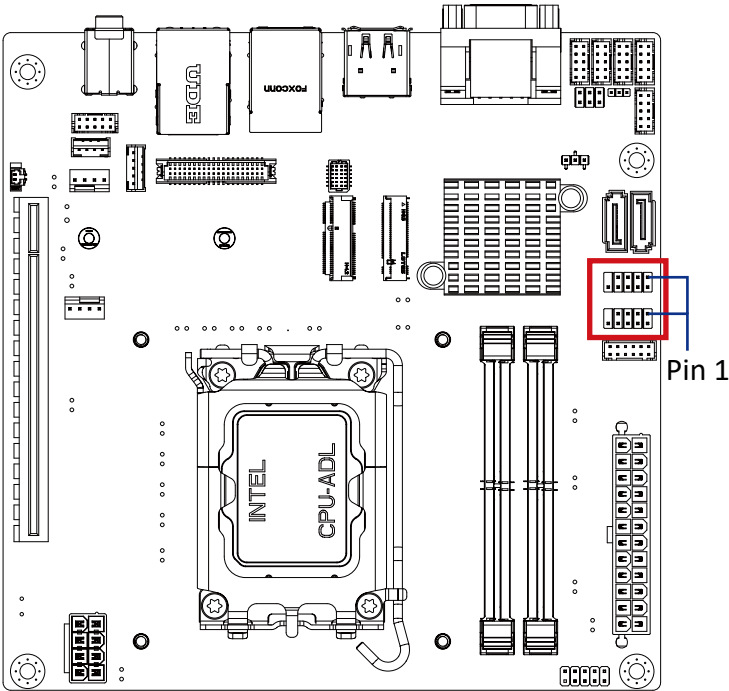
SATA 6Gb/s Connector



Pin No.	Definition
1	GND
2	TXp
3	TXn
4	GND
5	RXn
6	RXp
7	GND

2.2.11 FUSB2_1, FUSB2_2 (USB 2.0 header)

15 16



USB 2.0 Header	
9	1
10	2

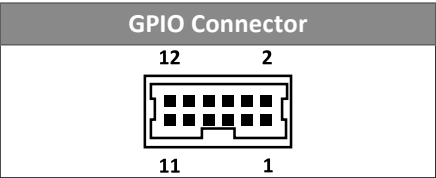
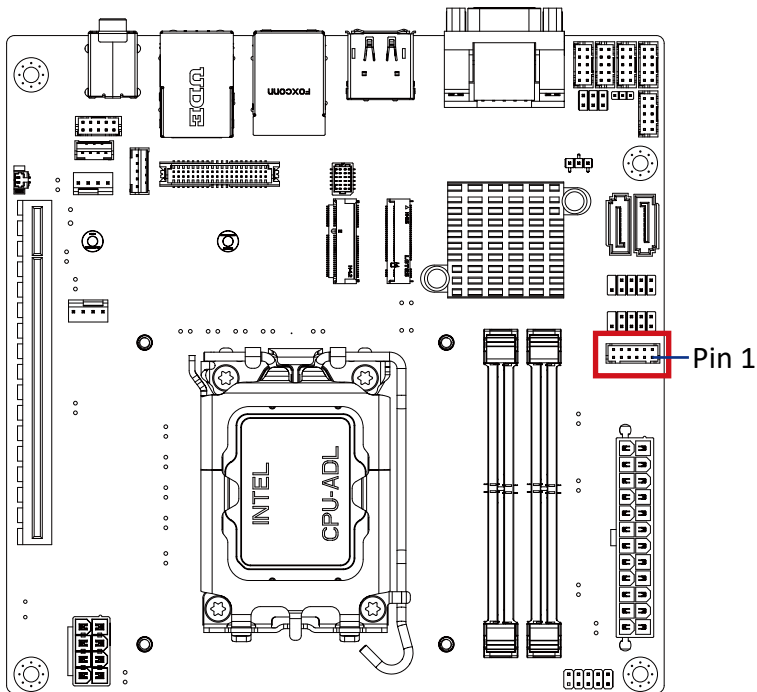
Pin No.	Definition
1	5V
2	5V
3	D2n
4	D1n
5	D2p
6	D1p
7	GND
8	GND
9	No Pin
10	NC

Connector PN	Vendor
210-92-05GB04	PINREX
PH10R53BAZ009	HORNGTONG

Connector type
2x5pin header, pitch 2.54mm

2.2.12 GPIO_CNT (General purpose input/out header)

17



Pin No.	Definition
1	GPIO-output_1
2	GPIO-input_1
3	GPIO-output_2
4	GPIO-input_2
5	GPIO-output_3
6	GPIO-input_3
7	GPIO-output_4
8	GPIO-input_4
9	SMBus Clock

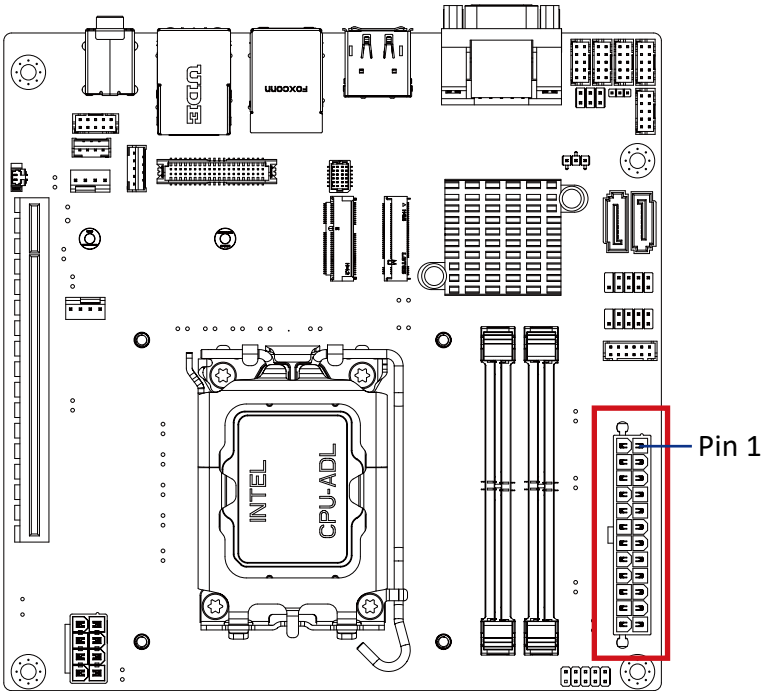
Pin No.	Definition
10	SMBus DATA
11	5V
12	GND

Connector PN	Vendor
725-81-12TW00	PINREX

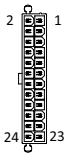
Connector type
2x6pin connector, pitch 2.0mm

2.2.13 ATX (24-pin ATX main power connector)

18



ATX power Connector



Connector PN

740-96-245B70

Vendor

PINREX

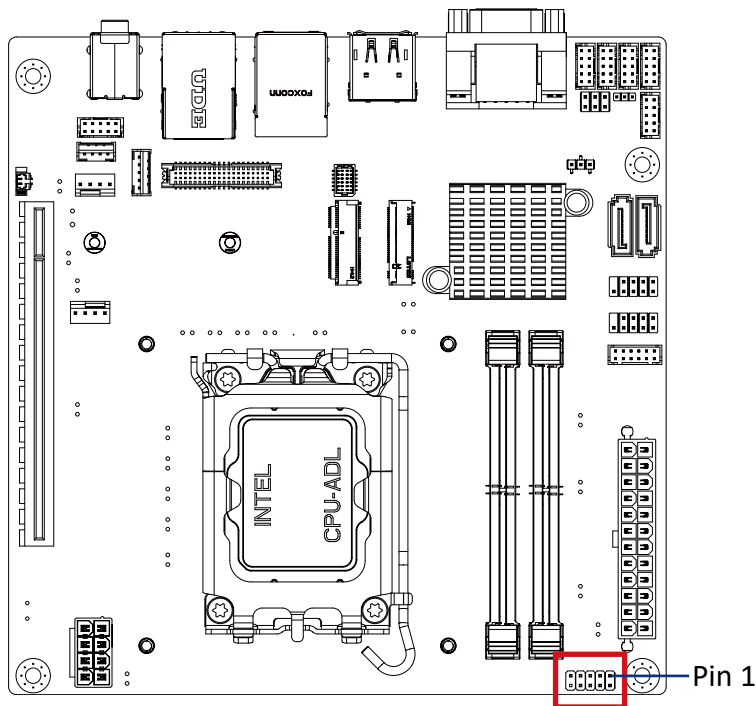
Connector type

2x12pin connector, pitch 4.2mm

Pin No.	Definition	Pin No.	Definition
1	3.3V	13	3.3V
2	3.3V	14	-12V
3	GND	15	GND
4	5V	16	PS_ON
5	GND	17	GND
6	5V	18	GND
7	GND	19	GND
8	Power Good	20	NC
9	5VSB	21	5V
10	12V	22	5V
11	12V	23	5V
12	3.3V	24	GND

2.2.14 SYS_PANEL (System Panel header)

19

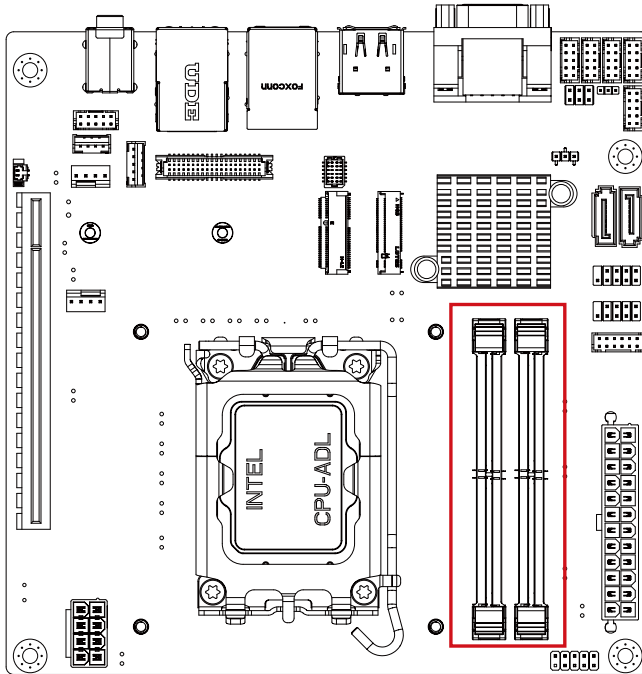


System Panel Header	
9 1 10 2	
Pin No.	Definition
1	HD-P
2	MPD-P
3	HD-N
4	MPD-N
5	GND
6	POWER-ON
7	Reset
8	GND
9	Reserved
10	NC

Connector PN	Vendor
210-92-05GW5W	PINREX
Connector type	
2x5pin header, pitch 2.54mm	

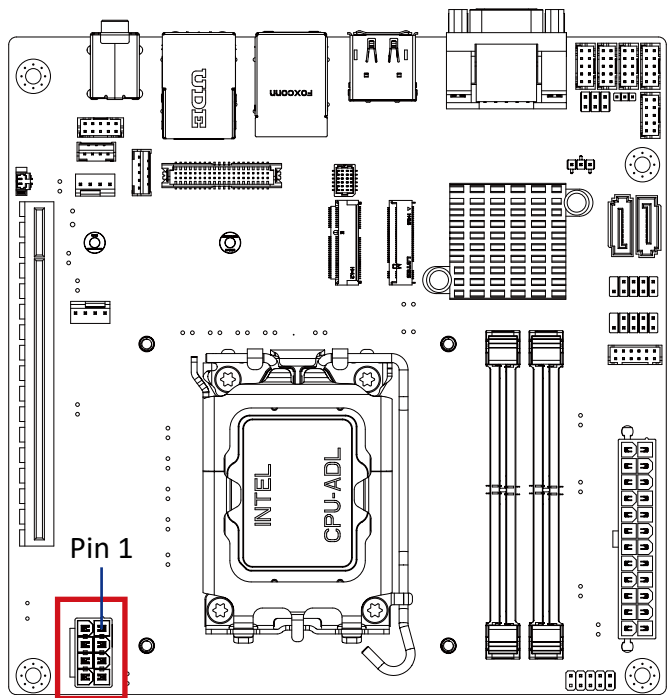
2.2.15 SODIMM1, SODIMM2 (2 x DDR5 SO-DIMM Sockets)

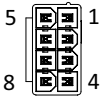
20



2.2.16 ATX_12V (8-pin ATX 12V power Connector)

21

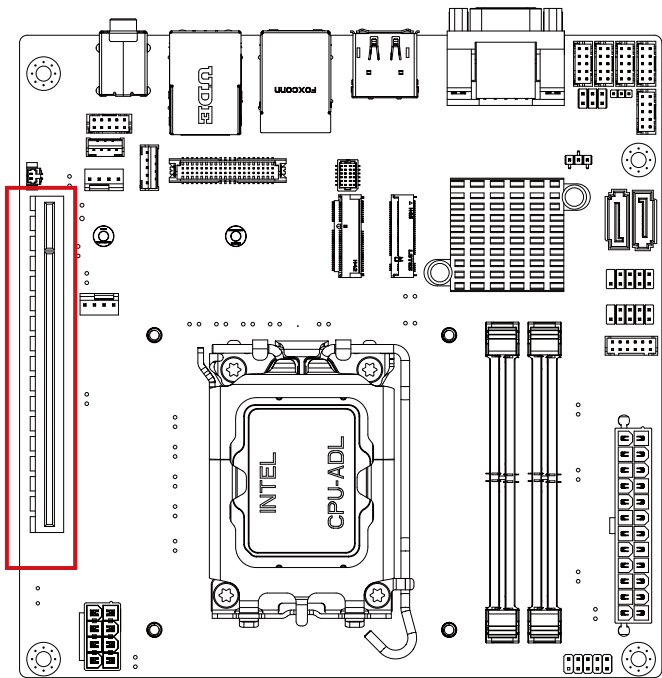


ATX 12V Connector	
	
Pin No.	Definition
1	GND
2	GND
3	GND
4	GND
5	+12V
6	+12V
7	+12V
8	+12V

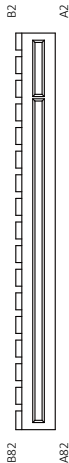
Connector PN	Vendor
740-96-085B61	PINREX
Connector type	
2x4pin connector, pitch 4.2mm	

2.2.17 PCIEX16 (1 x PCIe x16 (Gen3 x16 Bus) Slot)

22



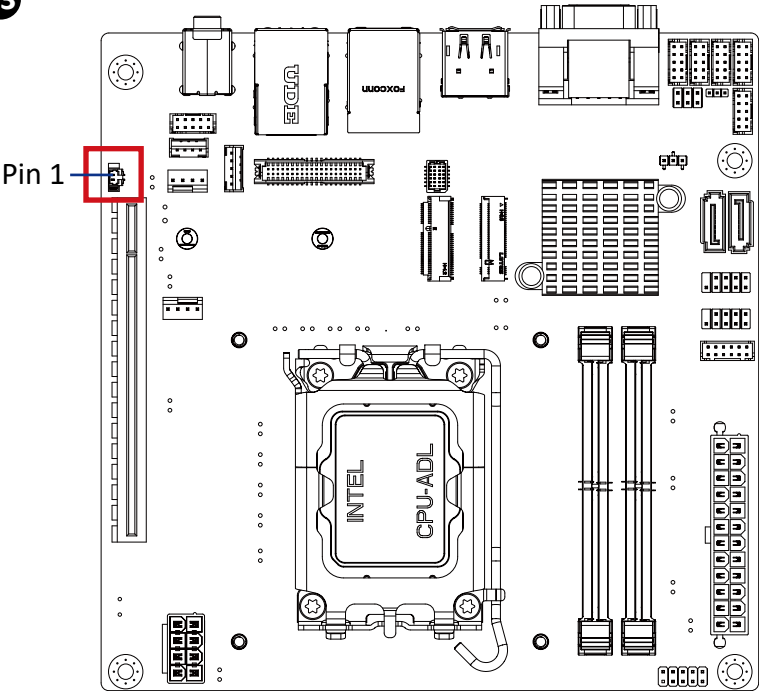
PCIEX16 connector



Connector PN	Vendor
WPES-164AN41B22UWS	WINWIN
2EG08211-DAD-DF	FOXCONN
AAA-PCI-167-K42	LOTES

2.2.18 BATTERY (Battery Connector)

23

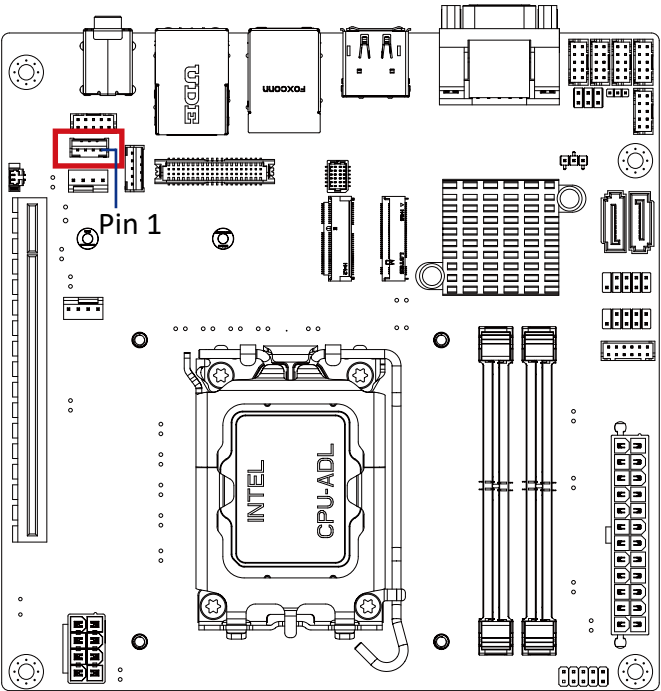


Battery Connector	
	
Pin No.	Definition
1	3V
2	GND

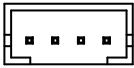
Connector PN	Vendor
85205-0270L	ACES
A1250WV-S-02PC	JOINT-TECH
Connector type	
1x2pin connector, pitch 1.25mm	

2.2.19 SPEAKER (Speaker Out Connector)

24



Speaker Out Connector



1

Connector PN

A2001WV-04P146

Vendor

JOINT-TECH

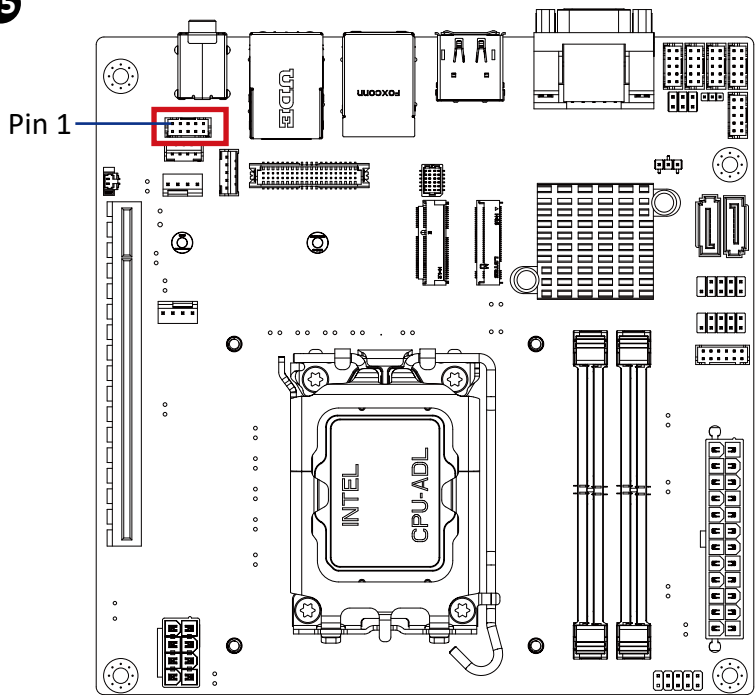
Connector type

1x4pin header, pitch 2.0mm

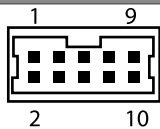
Pin No.	Definition
1	SPEAKER L+
2	SPEAKER L-
3	SPEAKER R-
4	SPEAKER R+

2.2.20 FP_AUDIO (Front Panel Audio header)

25



Front Audio Connector



Connector PN

725-81-10TW00

Vendor

PINREX

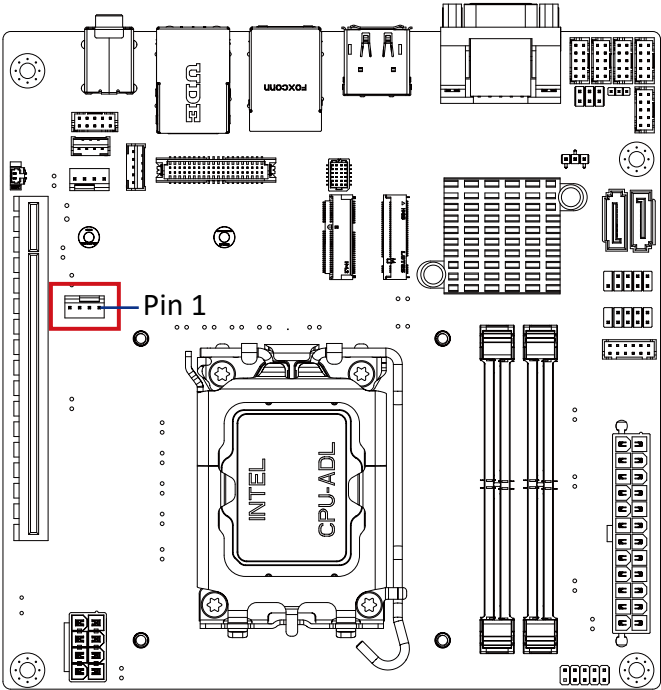
Connector type

2x5pin header, pitch 2.0mm

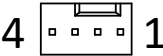
Pin No.	Definition	Pin No.	Definition
1	MIC-LEFT	6	GND
2	GND	7	JACKSENCE DELTECT
3	MIC-RIGHT	8	NC
4	DELTECT	9	LINE-LEFT
5	LINE-RIGHT	10	GND

2.2.21 CPU_FAN (CPU FAN Connector)

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CPU Fan Connector



Connector PN

744-81-045W11

Vendor

PINREX

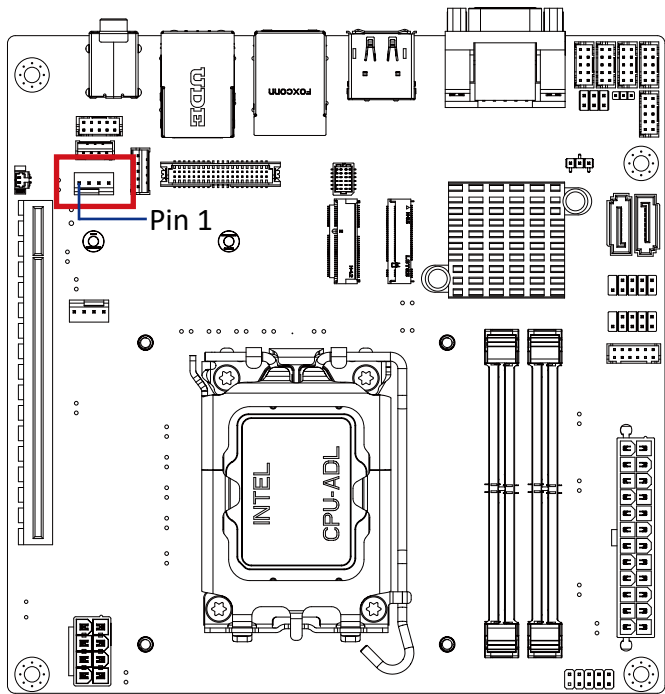
Connector type

1x4pin header, pitch 2.54mm

Pin No.	Definition
1	GND
2	12V
3	Detect
4	Speed Control

2.2.22 SYS_FAN (System Fan Connector)

27



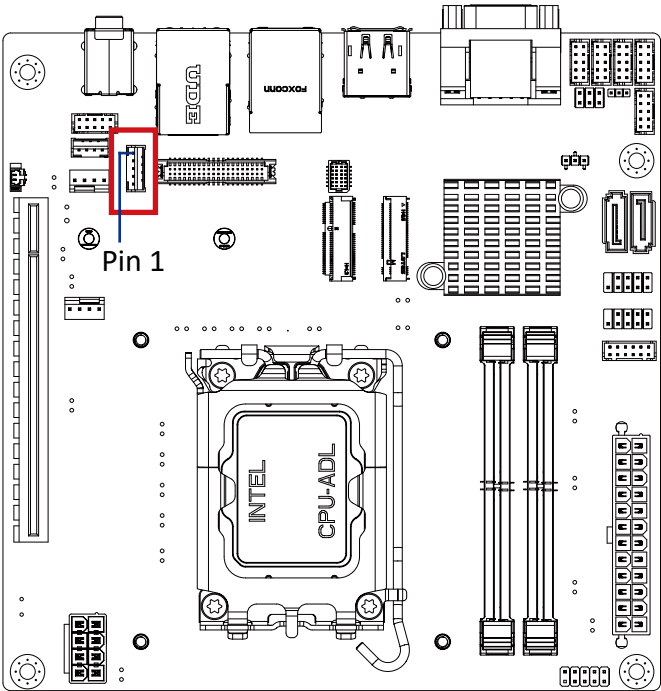
System FAN		
1		4

Connector PN	Vendor
744-81-045R11	PINREX
Connector type	
1x4pin header, pitch 2.54mm	

Pin No.	Definition
1	GND
2	12V
3	Detect
4	Speed Control

2.2.23 BKL_CN (Backlight Control Connector)

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Backlight Control Connector



Connector PN
721-81-05TW00

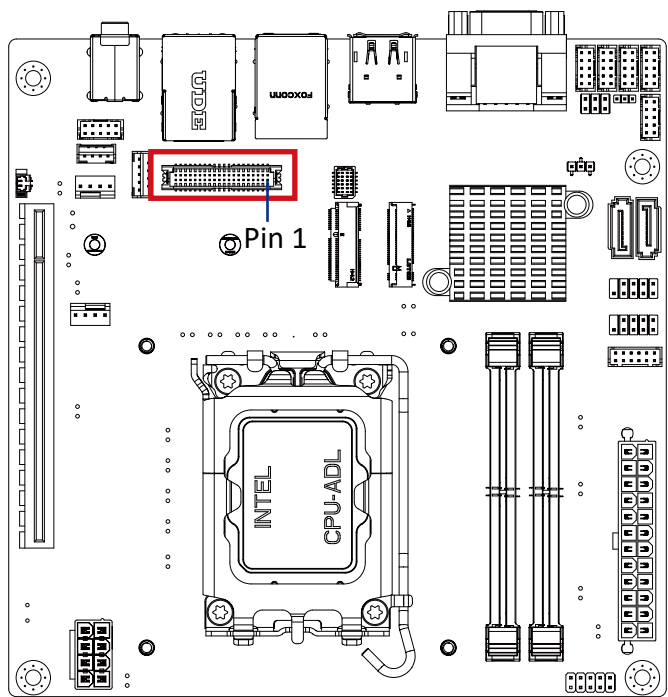
Vendor
PINREX

Connector type
1x5pin header, pitch 2.0mm

Pin No.	Definition
1	5V (12V optional)
2	PWM
3	Backlight enable
4	GND
5	12V

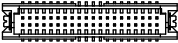
2.2.24 LVDS (LVDS Connector)

29



LVDS Connector

402



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Pin No.	Definition	Pin No.	Definition
1	3.3V	21	A5+
2	5V	22	A4+
3	3.3V	23	A5-
4	5V	24	A4-
5	SPECO	25	GND
6	SPEDO	26	GND
7	GND	27	A7+
8	GND	28	A6+
9	A1+	29	A7-
10	A0+	30	A6-
11	A1-	31	GND
12	A0-	32	GND
13	GND	33	CLK2+
14	GND	34	CLK1+
15	A3+	35	CLK2-
16	A2+	36	CLK1-

Pin No.	Definition	Pin No.	Definition
17	A3-	37	GND
18	A2-	38	GND
19	GND	39	12V
20	GND	40	12V

Connector PN	Vendor
712-76-40GWE0	PINREX
A1252WV-SF-2X20PD01	JOINT-TECH

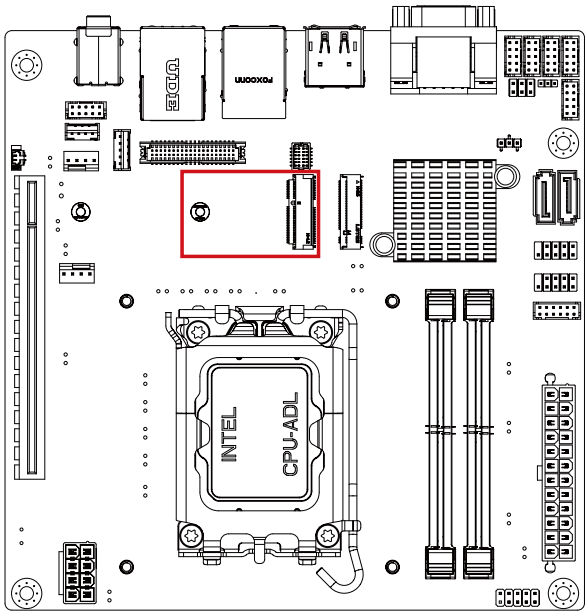
Connector type
2x20pin header, pitch 1.25mm

For each model support LVDS function.
But below model no need to add.
A0~A3 is odd channel 0~3, A4~A7 is ev en channel.

Note: *The LVDS output connector of the unit is only intended to be connected to an UL/IEC/EN approval equipment with fire enclosure.

2.2.25 M2E (M.2 Slot, 2230 E-Key)

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M.2 E Key Connector



Pin No.	Definition	Pin No.	Definition
1	GND	2	3.3V
3	D1p	4	3.3V
5	D1n	6	NC
7	GND	8	NC
9	NC	10	NC
11	NC	12	NC
13	NC	14	NC
15	NC	16	NC
17	NC	18	GND
19	NC	20	NC
21	NC	22	NC
23	NC		

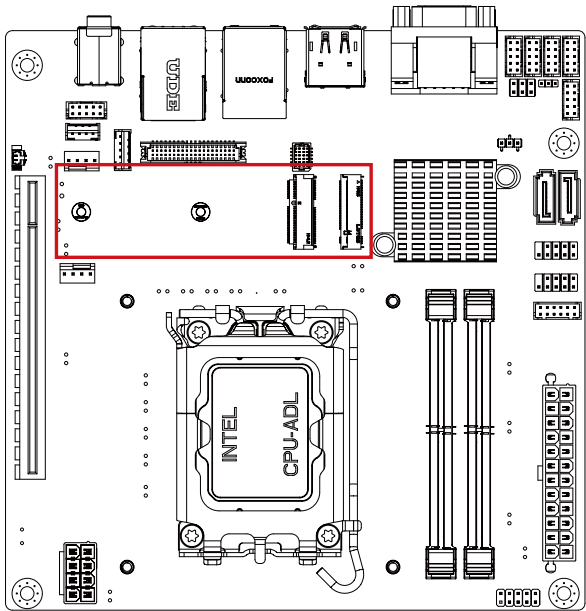
Pin No.	Definition	Pin No.	Definition
33	GND	32	NC
35	PCIE_TXp	34	NC

37	PCIE_TXn	36	NC
39	GND	38	NC
41	PCIE_RXp	40	NC
43	PCIE_RXn	42	NC
45	GND	44	NC
47	PCIE_CLOCKp	46	NC
49	PCIE_CLOCKn	48	NC
51	GND	50	SUSCLK
53	PCIE Clock Request	52	PCIRST
55	PCIE wake up	54	BT_Disable
57	GND	56	WLAN_DISABLE
59	NC	58	NC
61	NC	60	NC
63	GND	62	NC
65	NC	64	NC
67	NC	66	NC
69	GND	68	NC
71	NC	70	NC
73	NC	72	3.3V
75	GND	74	3.3V

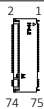
Connector PN	Vendor
APCI0076-P002A	LOTES

2.2.26 M2M (M.2 Slot, 2280 M-Key)

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M.2 M Key Connector



Pin No.	Definition	Pin No.	Definition
1	GND	2	3.3V
3	GND	4	3.3V
5	PCIE3 RXn	6	NC
7	PCIE3 RXp	8	NC
9	GND	10	SSD LED
11	PCIE3 TXn	12	3.3V
13	PCIE3 TXp	14	3.3V
15	GND	16	3.3V
17	PCIE2 RXn	18	3.3V
19	PCIE2 RXp	20	NC
21	GND	22	NC
23	PCIE2 TXn	24	NC
25	PCIE2 TXp	26	NC
27	GND	28	NC
29	PCIE1 RXn	30	NC
31	PCIE1 RXp	32	NC
33	GND	34	NC

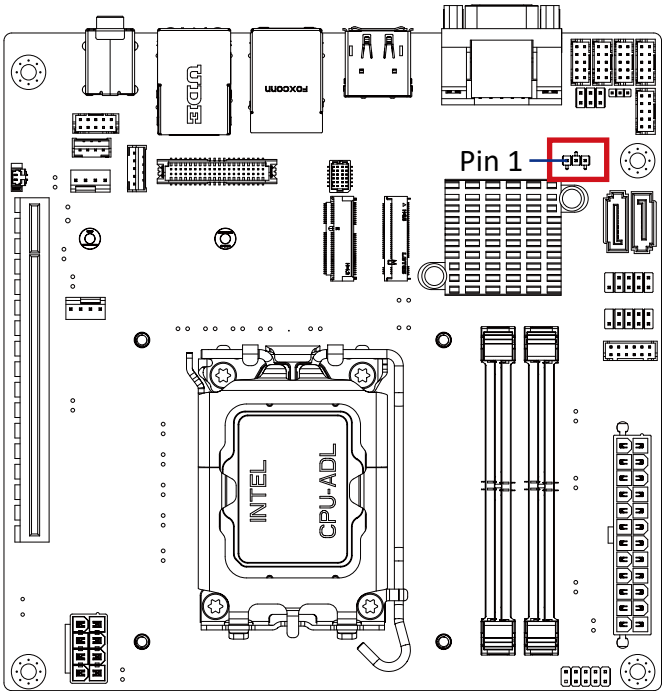
Pin No.	Definition	Pin No.	Definition
35	PCIE1 TXn	36	NC
37	PCIE2 TXp	38	DEVS LP
39	GND	40	NC
41	PCIE0 RXn	42	NC
43	PCIE0 RXp	44	NC
45	GND	46	NC
47	PCIE0 TXn	48	NC
49	PCIE0 TXp	50	PCI Reset
51	GND	52	PCIE Clock Request
53	PCIE Clockn	54	WakeUp
55	PCIE Clockp	56	NC
57	GND	58	NC

Pin No.	Definition	Pin No.	Definition
67	NC	68	SUSCLK
69	Detect	70	3.3V
71	GND	72	3.3V
73	GND	74	3.3V
75	GND		

Connector PN	Vendor
80159-8521	BELLWETHER

2.2.27 CLR_CMOS (Clear CMOS jumper)

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Clear CMOS Jumper


Connector PN	Vendor
212-91-03GBE00K	PINREX
Connector type	
1x3pin header, pitch 2.54mm	

Pin No.	Definition
1	NC
2	GND
3	Clear CMOS
1-2 Close: Normal Operator (Default setting)	
2-3 Close: Clear CMOS data	