

uATX-RYZEN (MZRYZBM)

Thin Micro-ATX Motherboard

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
uATX-RYZEN MB	1
I/O Bracket	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	○	○	○	○	○	○
<p>○: 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。</p> <p>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。</p> <p>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。</p>						

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	○	○	○	○	○	○
Wires & Connectors for External Connections	○	○	○	○	○	○
<p>○ : 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.</p> <p>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.</p> <p>Note: The Environment Friendly Use Period as labeled on this product is applicable under normal usage only</p>						

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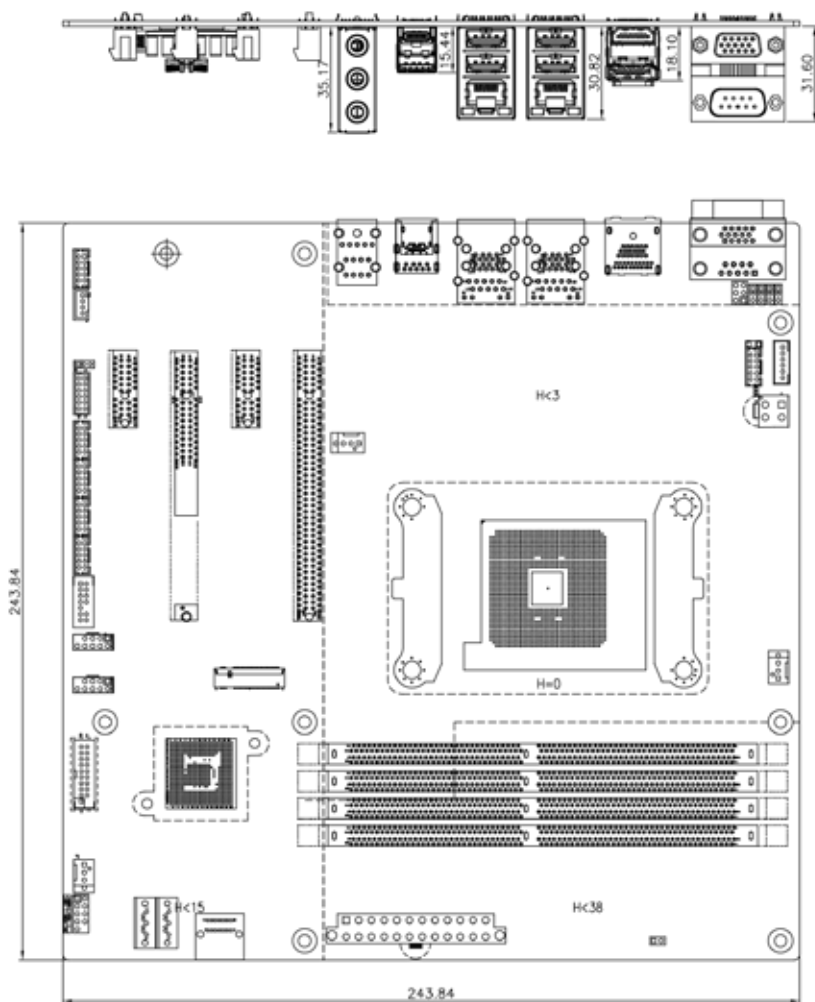
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Chapter 1

Chapter 1 - Product Specifications



1.1 Specifications

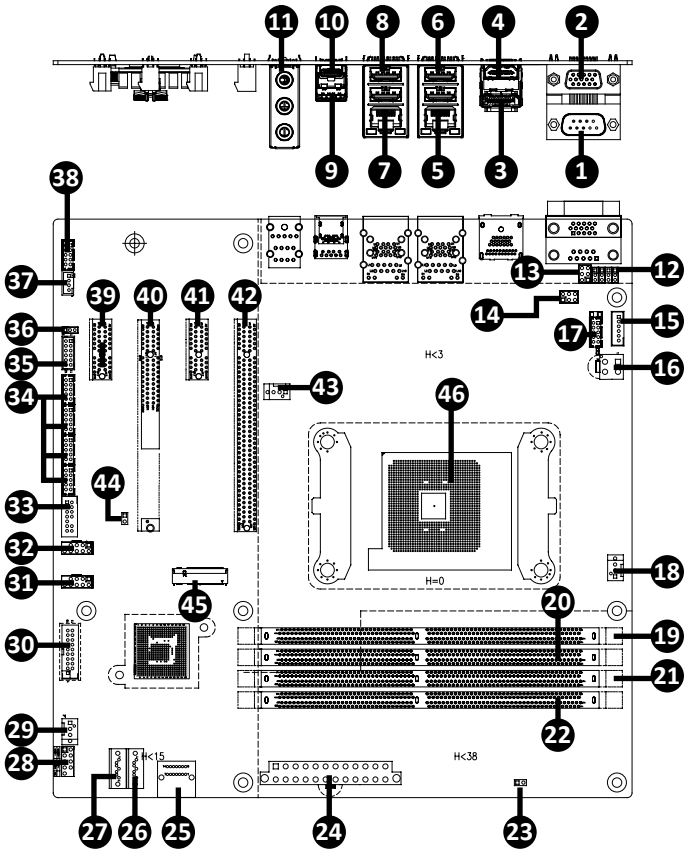
Motherboard	uATX-RYZEN (MZRYZBM)
Form Factor	Micro ATX
	244W x 244D (mm)
CPU	Support AMD RYZEN2 7'5'3 CPU/APU AM4 μ PGA 65W, Socket AM4 (Summit Ridge/Raven Ridge/Pinnacle Ridge) TDP under 65W L3 cache varies with CPU
Socket	1 x Socket AM4
Chipset	AMD B450
Memory	4 x DDR4 DIMM sockets, Max. Capacity 64 GB Dual channel memory architecture Support DDR4 2667/2400/2133 MHz
Ethernet	2 x GbE LAN ports (Realtek® RTL8111HS)
Video	1 x HDMI 1 x Display Port 1 x D-Sub
Audio	Realtek ALC269VC3 High Definition Audio
Storage	4 x SATA 6Gb/s ports
Raid	—
Expansion Slots	1 x PCIe x16 (Gen3 x16 bus) slot 1 x PCIe x4 (Gen2 x2 bus) slot 2 x PCIe x1 (Gen2 x1 bus) slot 1 x M.2 slot: - M-key - PCIe Gen3 x4 per slot - Supports NGFF-2240/2260/2280/22110 cards

Motherboard	uATX-RYZEN (MZRYZBM)
Internal I/O	1 x 24-pin ATX main power connector 1 x 4-pin ATX 12V power connector 2 x USB 2.0 headers 4 x SATA 6Gb/s connectors 1 x CPU fan header 2 x System fan headers 1 x Internal Speaker header 5 x COM headers (RS-232) 1 x Clear CMOS jumper 1 x GPIO (4 in/ 4 out) 1 x KB/MS Connector
Rear I/O	2 x RJ45 1 x COM (RS-232/422/485 and RI/5V/12V) 1 x HDMI 4 x USB3.0 1 x Display Port 1 x D-Sub 3 x Audio jacks (Line in, Line out, Mic in) 1 x USB3.1 Gen2 1 x USB3.1 Gen2 (Type C)
TPM	1 x TPM header
OS Compatibility	Windows 10 (x64)
PSU Connectors	1 x 24-pin ATX power connector 1 x 4-pin 12V ATX auxiliary power connector
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -20°C to 70°C Non-operating humidity: 0%-95% (non-condensing)

Chapter 2

Chapter 2 – Hardware Information

2.1 Jumpers and Connectors

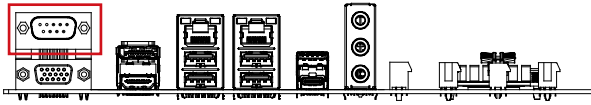


No	Code	Description
1	COM1	Serial Port
2	VGA	VGA Port
3	DP	Display Port
4	HDMI	HDMI Port
5	LAN1	GbE LAN Port
6	USB30_1	USB3.0 Port x 2
7	LAN2	GbE LAN Port
8	USB30_2	USB3.0 Port x 2
9	RUSB31_1	
10	RUSB31_2	
11	AUDIO	Audio Jack
12	JRS11, JRS14/ JRS13, JRS12	RS11, RS14/ RS13, RS12 select jumper for serial port
13	JCOM11	COM11 RI# pin RI#/5V/12V Select
14	JCOM12	COM1 RS-232/RS-422/RS-485 Select
15	KB_MS	Keyboard and Mouse Connector
16	ATX-12V	2x2 pin power connector
17	COM2	Serial Port Cable Connector
18	CPU_FAN	CPU Fan Connector
19	DIMMA0	DIMM A #1
20	DIMMA1	DIMM A #0
21	DIMMB0	DIMM B #1
22	DIMMB1	DIMM B #0
23	CLR_CMOS	Clear CMOS jumper
24	ATX	ATX
25	SATA_3_4	SATA 6Gb/s Connectors
26	SATA1	SATA 6Gb/s Connector
27	SATA2	SATA 6Gb/s Connector

No	Code	Description
28	F_PANEL	Front panel header
29	SYS_FAN2	System fan connector
30	USB30	USB 3.0 header
31	FUSB20_1	USB 2.0 header
32	FUSB20_2	USB 2.0 header
33	TPM_LPC	Trusted Platform Module Connector
34	COM3~6	Serial ports
35	GPIO_CNT	General Purpose input/output header
36	AT_CN	AT/ATX power mode select jumper
37	SPK_OUT	Speaker out connector
38	F_AUDIO	Front audio header
39	PCIEX1_2	PCIEX1 #2
40	PCIEX4	PCIEX4 #2
41	PCIEX1_1	PCIEX1 #1
42	PCIEX16	PCIEX16
43	SYS_FAN1	System fan connector
44	CASE_OPEN	
45	M2_M	M.2 M-Key
46	AM4	CPU_Socket

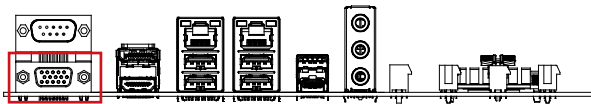
2.2.1 COM1 (Serial Port)

1



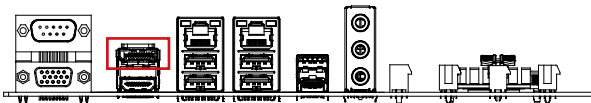
2.2.2 VGA (VGA Port)

2



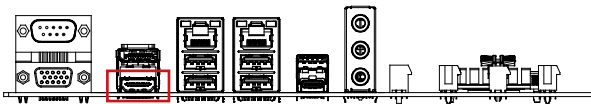
2.2.3 DP (Display Port)

3



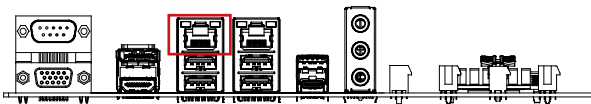
2.2.4 HDMI (HDMI Port)

4



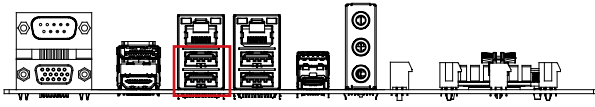
2.2.5 LAN1 (GbE Port)

5



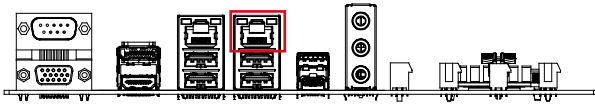
2.2.6 USB30_1 (2 x USB3.0 Port)

6



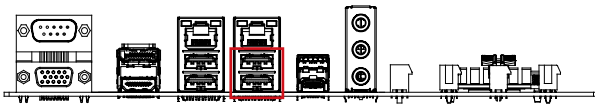
2.2.7 LAN2 (GbE Port)

7



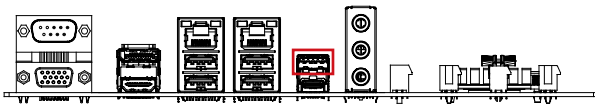
2.2.8 USB30_2 (2 x USB3.0 Port)

8



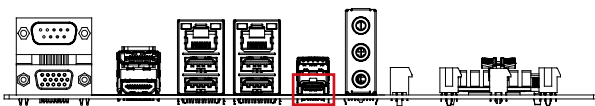
2.2.9 RUSB31_1

9



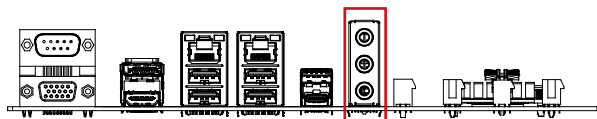
2.2.10 RUSB31_2

10



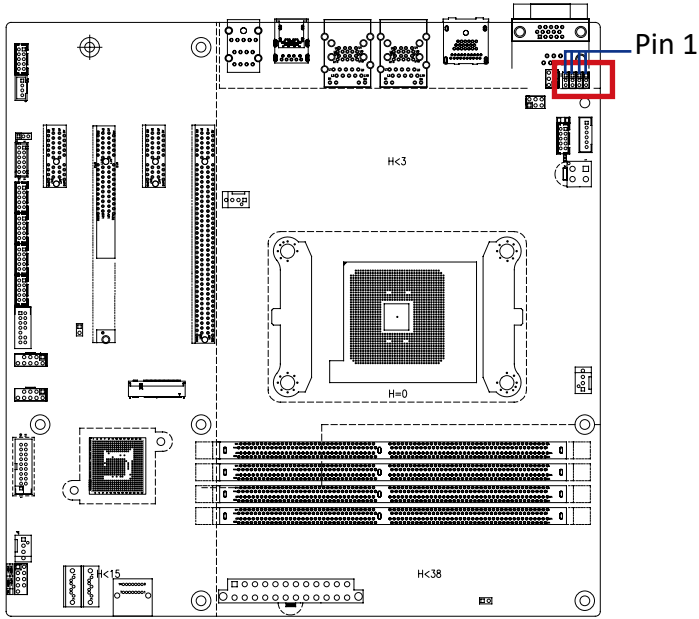
2.2.11 AUDIO (Audio Jack)

11



2.2.12 JRS11, JRS14, JRS13, JRS12 (RS11, RS14, RS13, RS12 select jumper for serial port)

12

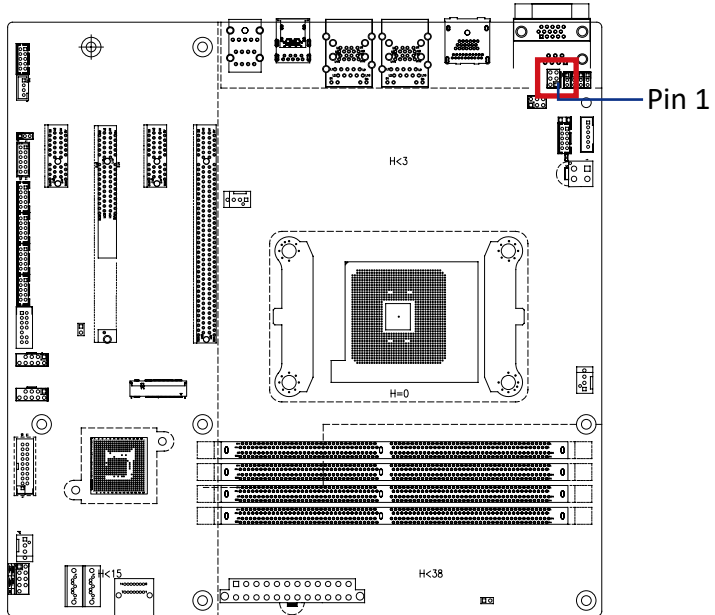


JRS11, JRS14, JRS13, JRS12
<p>JRS13 JRS11</p> <p>JRS12 JRS14</p>
<p>1-2 Close: RS-485</p>
<p>2-3 Close: RS-232 (Default-setting)</p>

Connector PN	Vendor
PH03N33BAAA00	HORNGTONG

2.2.13 JCOM11 (COM11 RI# pin RI#/5V/12V Select)

13

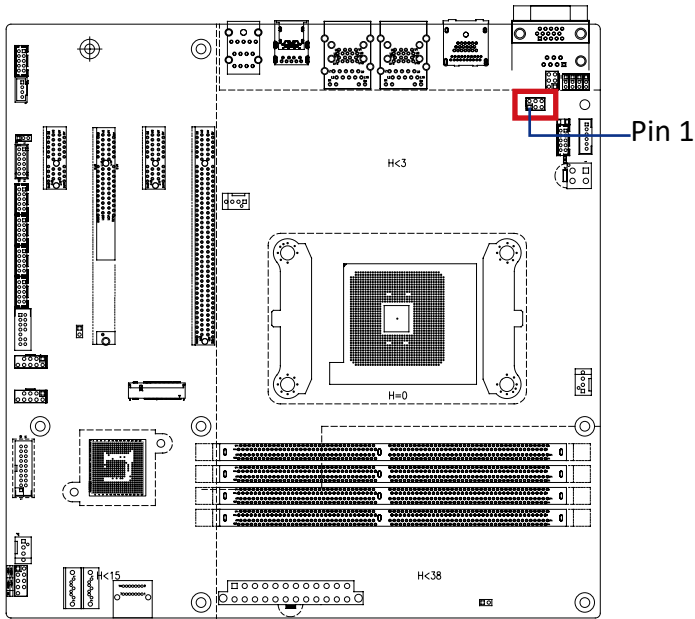








JCOM31, JCOM41 Jumper	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM) (Default Setting)
	5-6 Close: 12V (Power COM)

Connector PN	Vendor
220-97-03GB01	PINREX
PH06N53BAZ000	HORNGTONG

2.2.14 JCOM12 (RS-232/RS-422/RS-485 select)

14



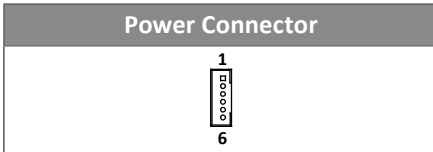
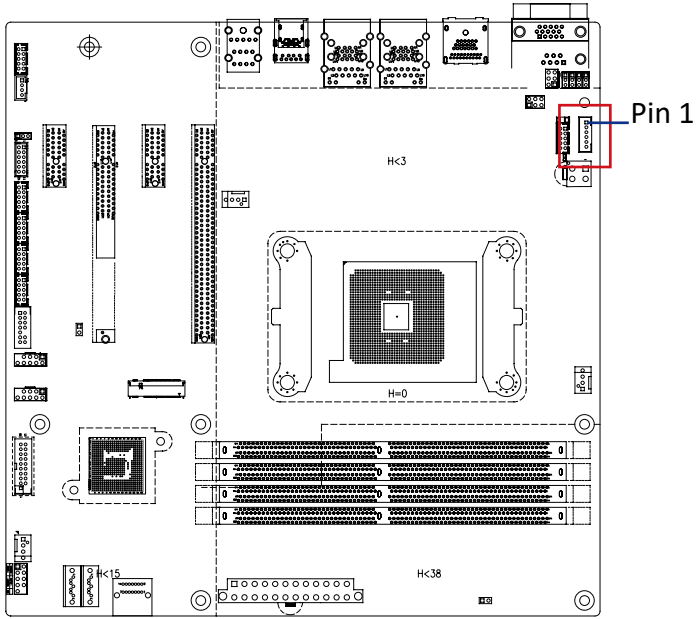
JCOM32/42 Jumper	
1  5 2  6	1-2 Close: RS-232
1  5 2  6	3-4 Close: RS-422
1  5 2  6	5-6 Close: RS-485

Pin No.	Definition
1	RX232
2	RX
3	RX422
4	RX
5	RX485
6	RX

Connector PN	Vendor
222-97-03GBE1	PINREX

2.2.15 KB_MS (Keyboard & Mouse connector)

15

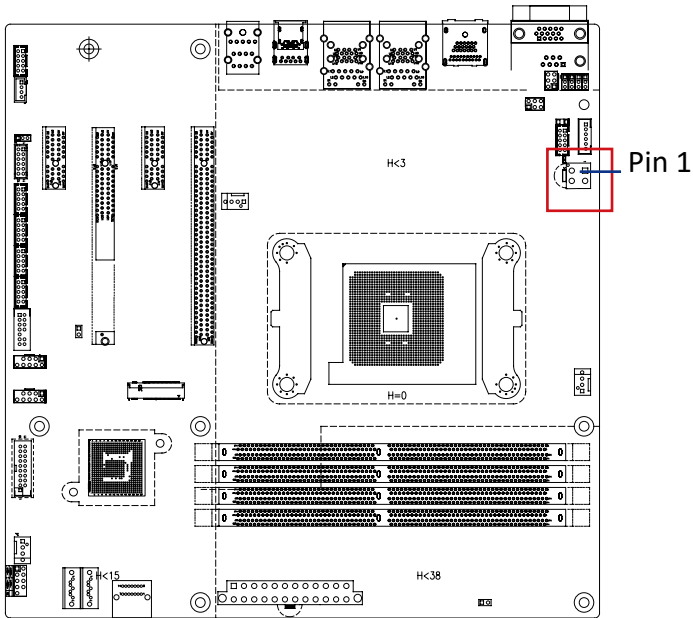


Connector PN	Vendor
721-81-06TW00	PINREX
A2001MV-06P146	JOINT-TECH

Pin No.	Definition
1	Power
2	MSCLK
3	MSDATA
4	MBCLK
5	MBDATA
6	GND

2.2.16 ATX_12V (ATX 2x2 pin power connector)

16



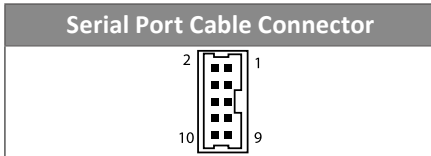
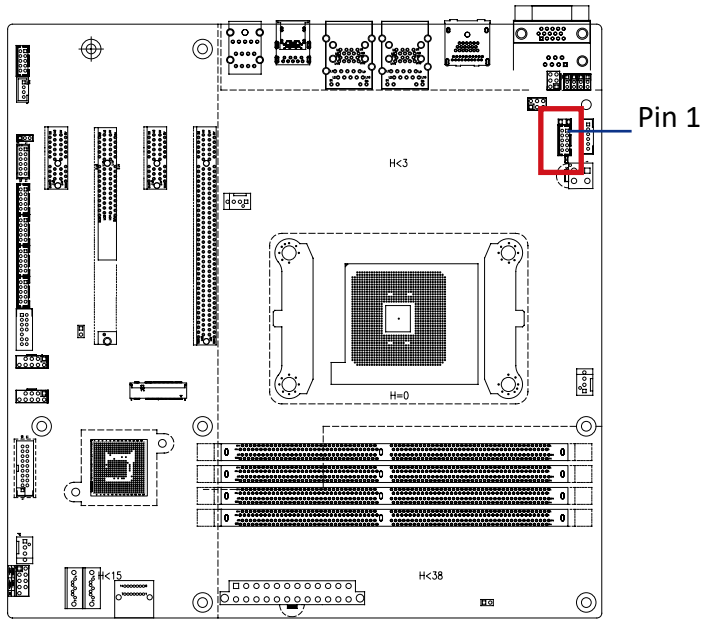
Power Connector	

Connector PN	Vendor
740-81-04TW56	PINREX
25104A0400B3-93LF	ATRC

Pin No.	Definition
1	GND
2	GND
3	+12V
4	+12V

2.2.17 COM2 (Serial Port cable connector)

17

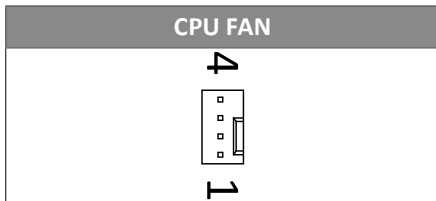
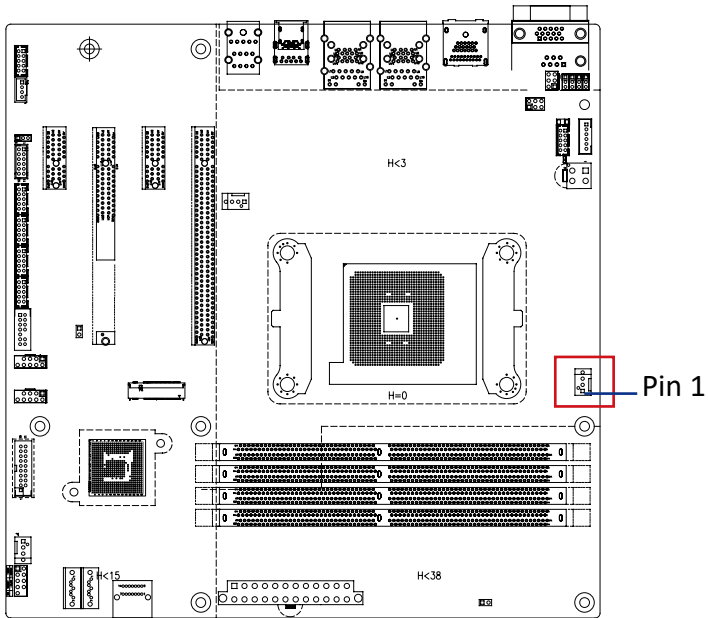


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

Pin No.	Definition	Pin No.	Definition
1	RXD	6	GND
2	DCD	7	CTS
3	DTR	8	RTS
4	TXD	9	No Connect
5	DSR	10	RI/ 5V/ 12V

2.2.18 CPU_FAN (CPU Fan connector)

17

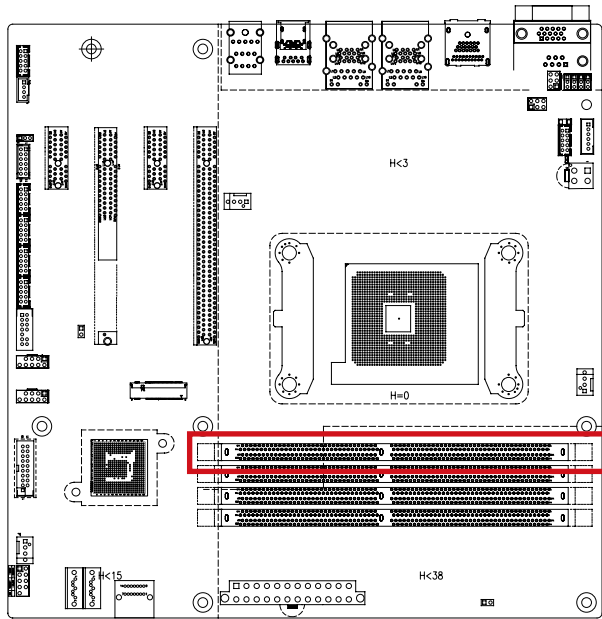


Connector PN	Vendor
744-81-045R11	PINREX
WF04R22RJQ105	HORNGTONG

Pin No.	Definition
1	GND
2	12V
3	FANIO
4	FANPWM

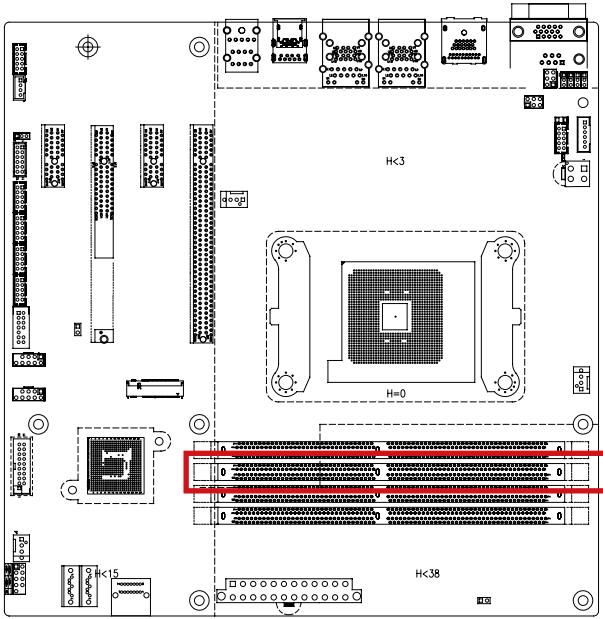
2.2.19 DIMMA0 (DIMM A #0)

19



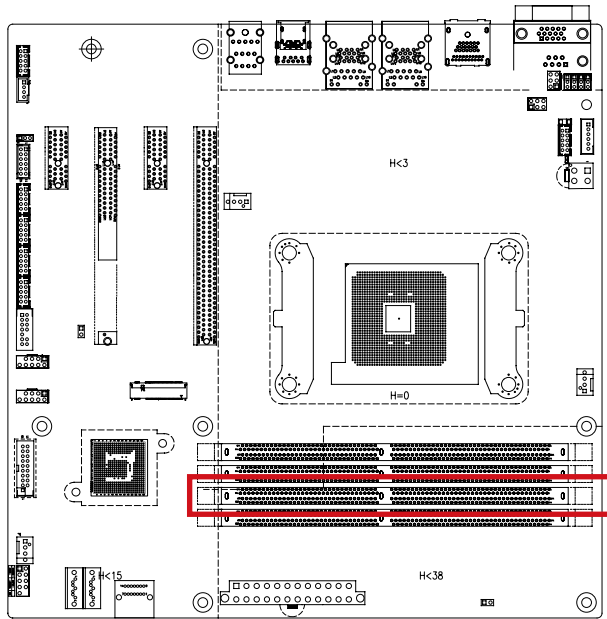
2.2.20 DIMMA1 (DIMM A #1)

20



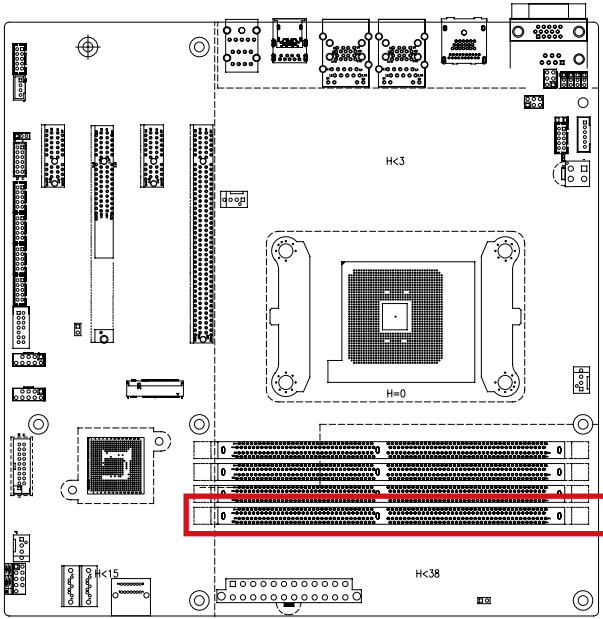
2.2.21 DIMMB0 (DIMM B #0)

21



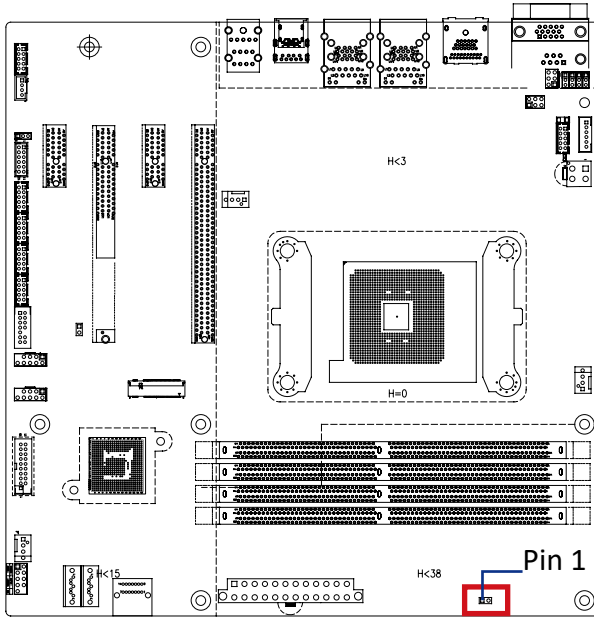
2.2.22 DIMMB1 (DIMM B #1)

22



2.2.23 CLR_CMOS (Clear COMS jumper)

23



Clear COMS Jumper

1  2

Connector PN

210-91-02GB01
PH02R23BAZ000

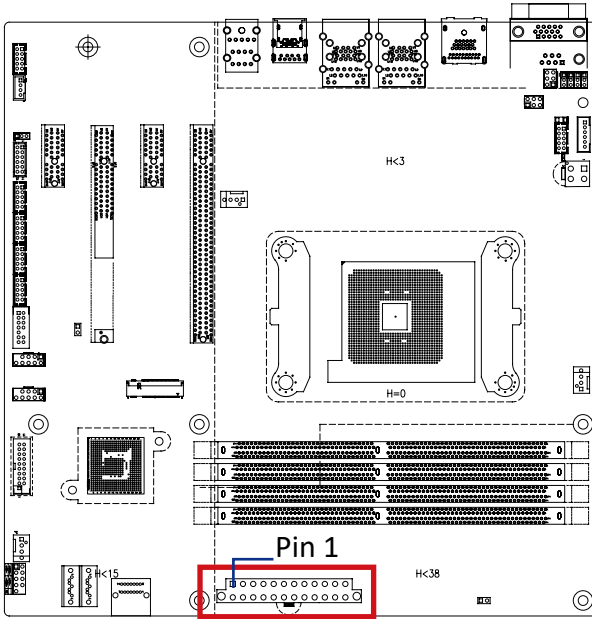
Vendor

PINREX
HORNGTONG

Pin No.	Definition
1	Clear CMOS
2	GND
Open: Normal Operation (Default setting) Close: Clear COMS data.	

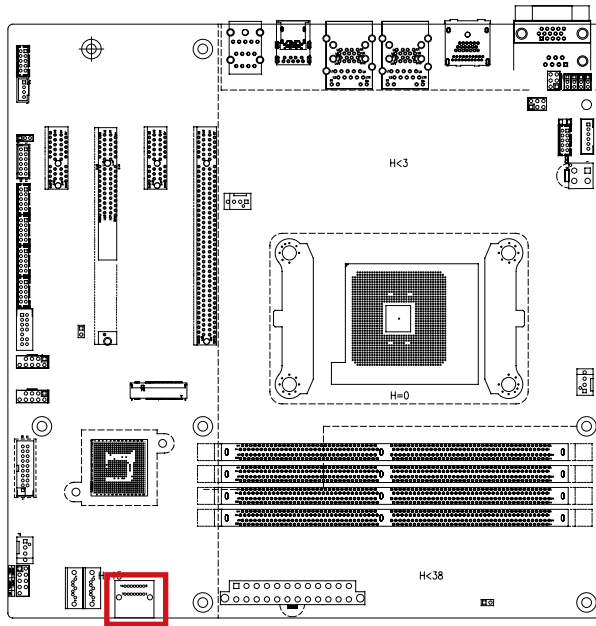
2.2.24 ATX

24



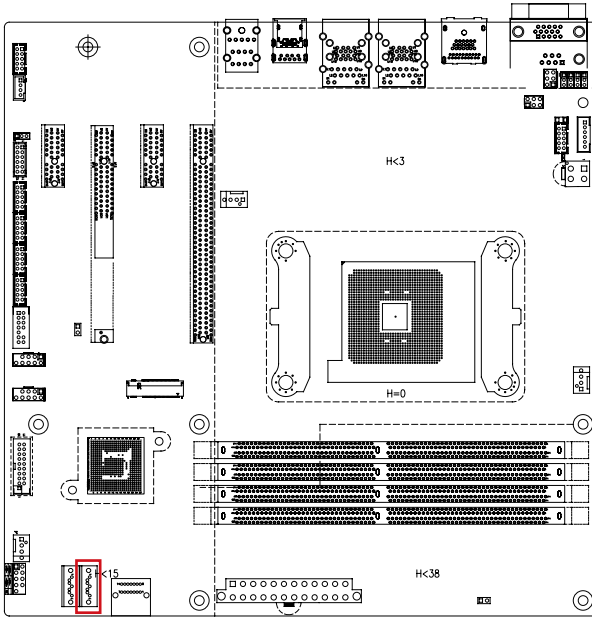
2.2.25 SATA_3_4 (SATA 6Gb/s connectors)

25



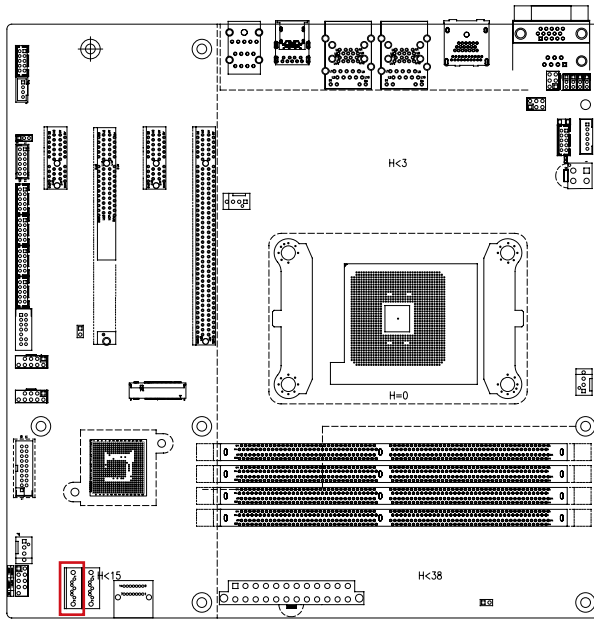
2.2.26 SATA1 (SATA 6Gb/s connector)

26



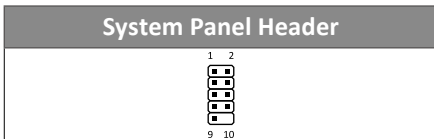
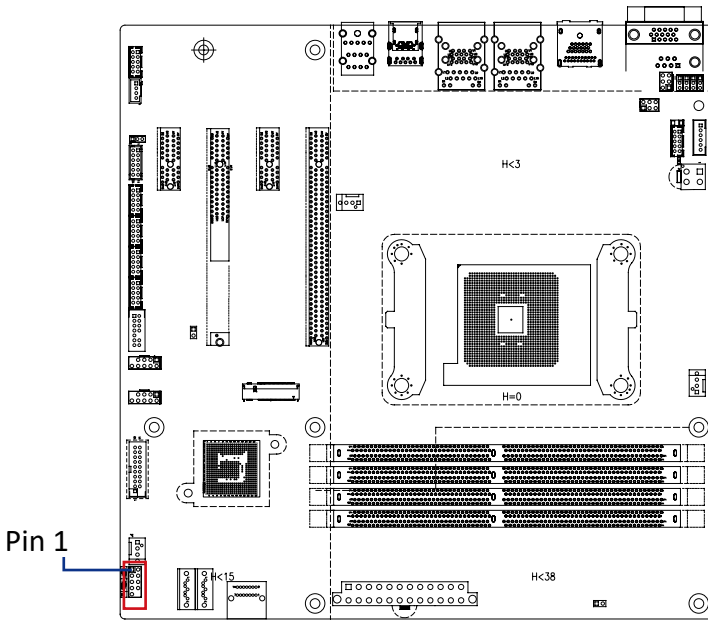
2.2.27 SATA2 (SATA 6Gb/s connector)

27



2.2.28 F_PANEL (Front panel header)

28

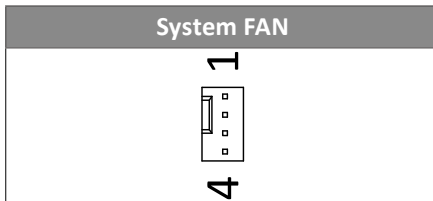
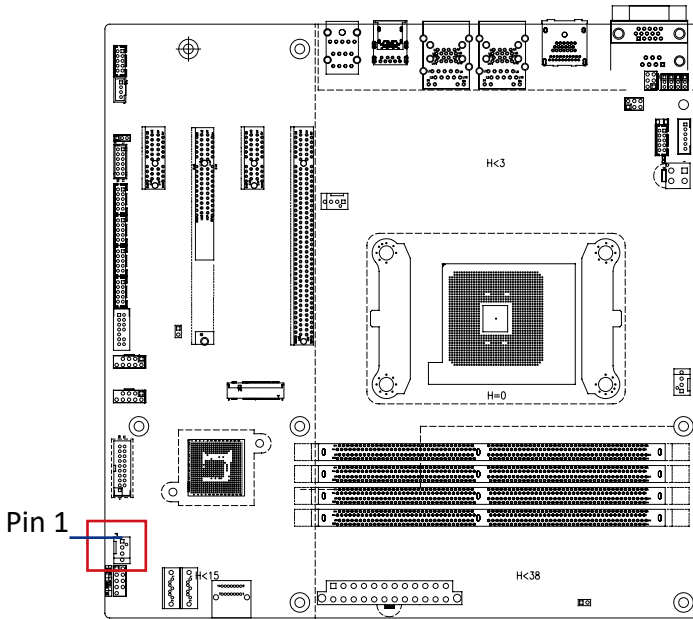


Connector PN	Vendor
210-92-05G111	PINREX

Pin No.	Definition
1	HDD LED+
2	Power LED+
3	HDD LED-
4	Power LED-
5	GND
6	Power Button+
7	Reset Button
8	Power Button-
9	No Connect
10	No Pin

2.2.29 SYS_FAN2

29

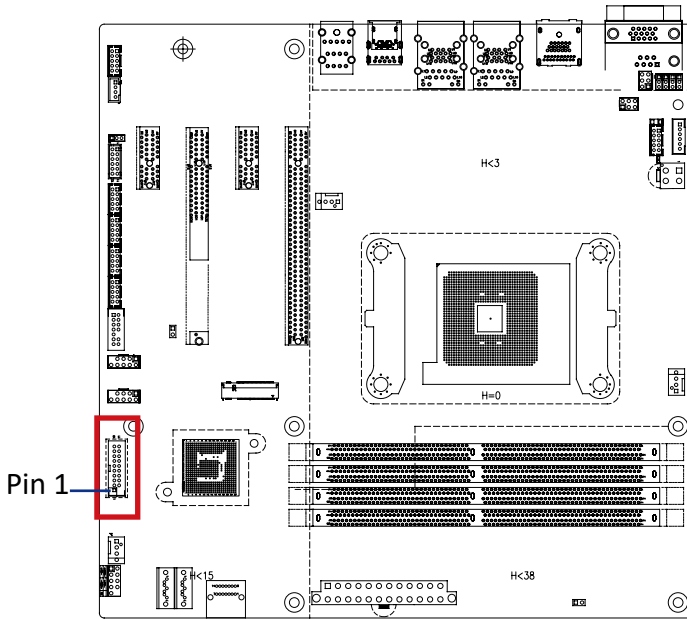


Connector PN	Vendor
744-81-045R11	PINREX
WF04R22RJQ105	HORNGTONG

Pin No.	Definition
1	GND
2	12V
3	FANIO
4	FANPWM

2.2.30 FUSB30 (USB 3.0 header)

30



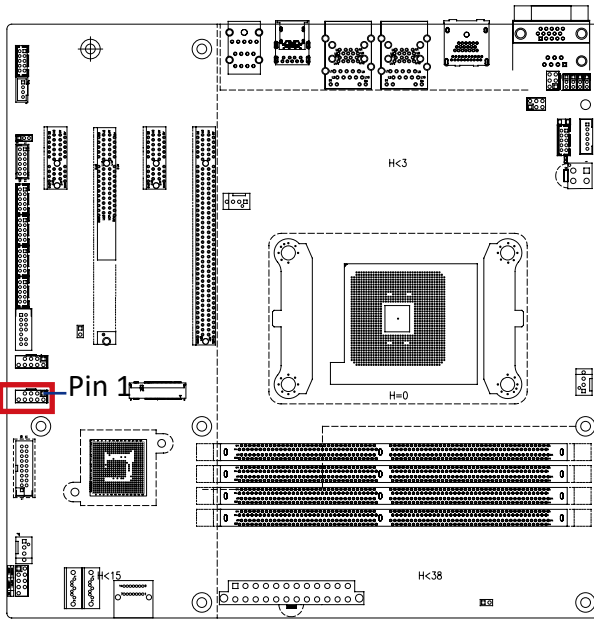
USB 3.0 Header	
Pin No.	Definition
1	Power
2	P1_RX-
3	P1_RX+
4	GND
5	P1_TX-
6	P1_TX+
7	GND
8	P1_D-
9	P1_D+
10	OC

Pin No.	Definition
11	P2_D+
12	P2_D-
13	GND
14	P2_TX+
15	P2_TX-
16	GND
17	P2_RX+
18	P2_RX-
19	Power
20	No Pin

Connector PN	Vendor
52X-80-20GU65	PINREX
WUIR-19A9N4BU3W	WINWIN

2.2.31 FUSB20_1 (USB 2.0 header)

31



USB 2.0 Header



Connector PN

210-92-05GB04
PH10R53BAZ009

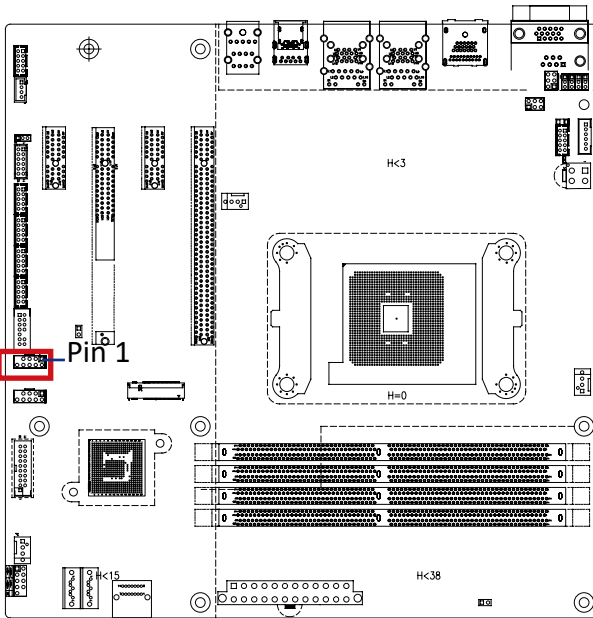
Vendor

PINREX
HORNGTONG

Pin No.	Definition
1	5V
2	5V
3	DX-
4	DY-
5	DX+
6	DY+
7	GND
8	GND
9	No Pin
10	No Connect

2.2.32 FUSB20_2 (USB 2.0 header)

32



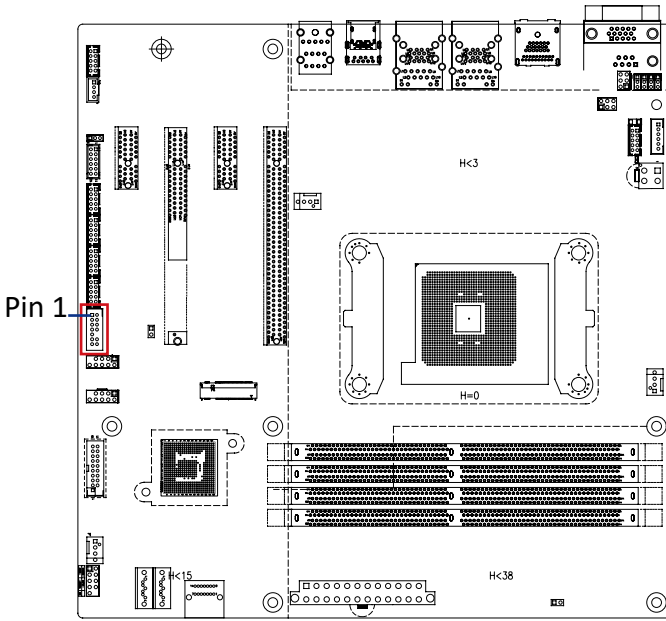
USB 2.0 Header	
10	9 1 2

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

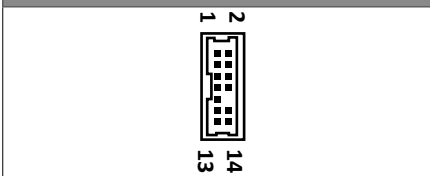
Pin No.	Definition
1	5V
2	5V
3	DX-
4	DY-
5	DX+
6	DY+
7	GND
8	GND
9	No Pin
10	No Connect

2.2.33 TPM_LPC (Trusted Platform Module Connector)

33



TPM Module Connector



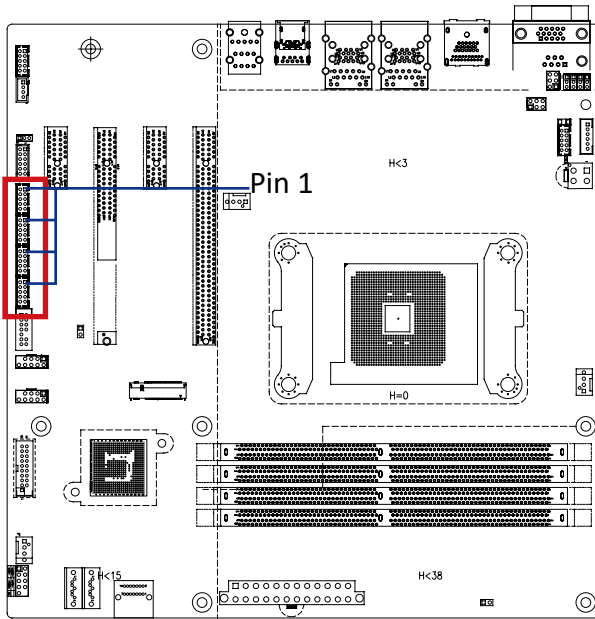
Pin No.	Definition
1	LPCCLK
2	3VDUAL
3	PFM RST
4	VCC3
5	LAD0
6	IRQ_SERIAL

Pin No.	Definition
7	LAD1
8	TPM_DET
9	LAD2
10	NC
11	LAD3
12	GND
13	LFRAME
14	GND

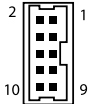
Connector PN	Vendor
52M-90-14GBE7	PINREX

2.2.34 COM3~6 (Serial Ports)

34



Serial Port Cable Connector



Connector PN

725-81-10TW00
A2004WV-2X05P46

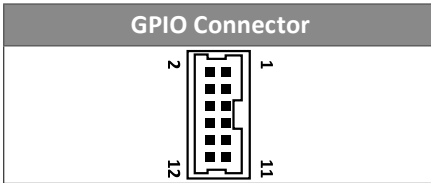
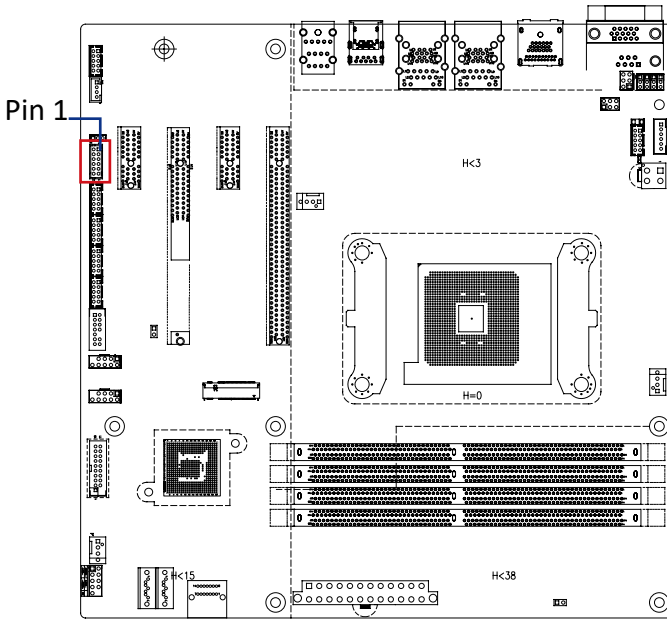
Vendor

PINREX
JOINT-TECH

Pin No.	Definition	Pin No.	Definition
1	RXD	6	GND
2	DCD	7	CTS
3	DTR	8	RTS
4	TXD	9	No Connect
5	DSR	10	RI/ 5V/ 12V

2.2.35 GPIO_CNT (General Propose input/output header)

35



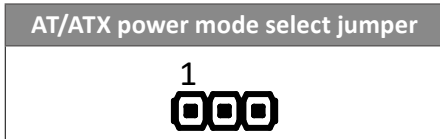
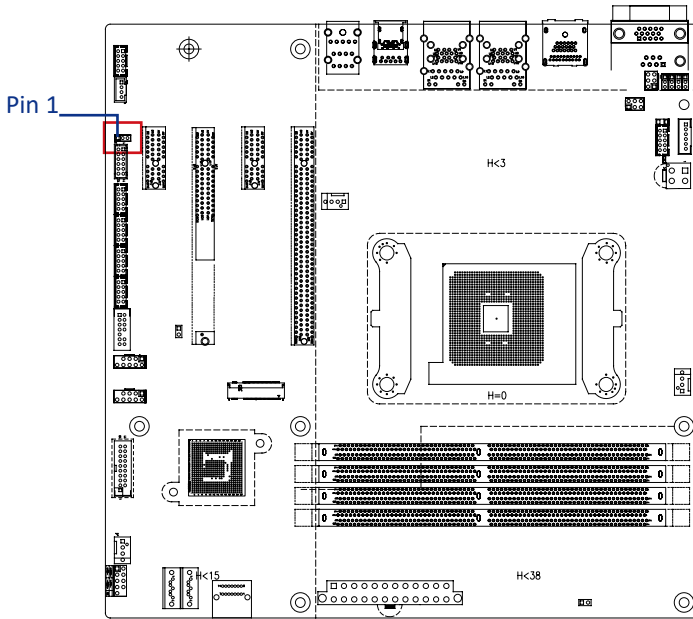
Pin No.	Definition
1	GPO1
2	GPI1
3	GPO2
4	GPI2
5	GPO3
6	GPI3
7	GPO4
8	GPI4

Pin No.	Definition
9	SMB_CLK
10	SMB_DATA
11	5V
12	GND

Connector PN	Vendor
725-81-12TW00	PINREX
A2004WV-2X06P46	JOINT-TECH

2.2.36 AT_CN (AT/ATX power mode select jumper)

36



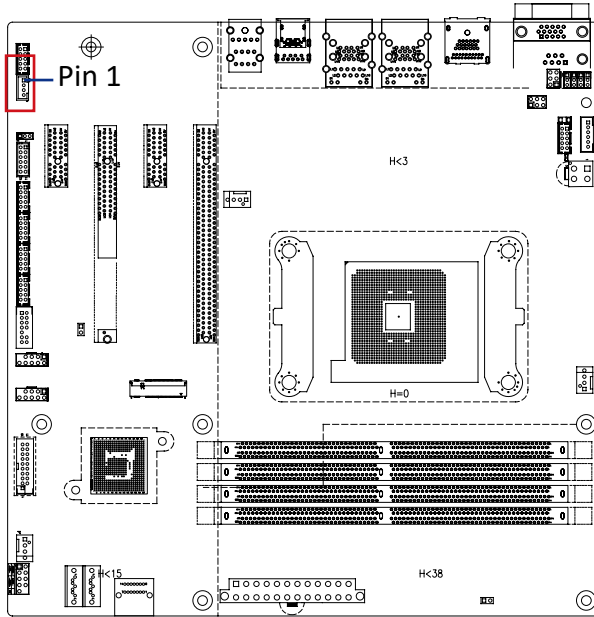
Connector PN	Vendor
PH03N33BAAA00	HORNGTONG

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)

2.2.37 SPK_OUT (Speaker out connector)

37



Audio Amplifier Connector



Connector PN

721-81-045W00

A2001WV-04P146

Vendor

PINREX

JOINT-TECH

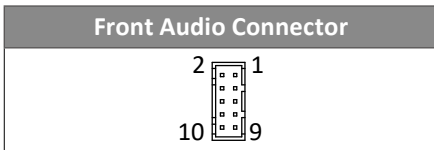
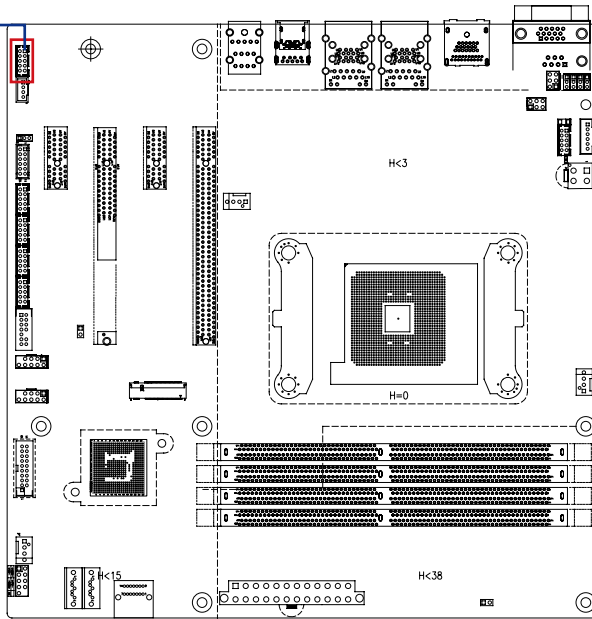
Pin No. Definition

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

2.2.38 F_AUDIO (Front audio header)

38

Pin 1

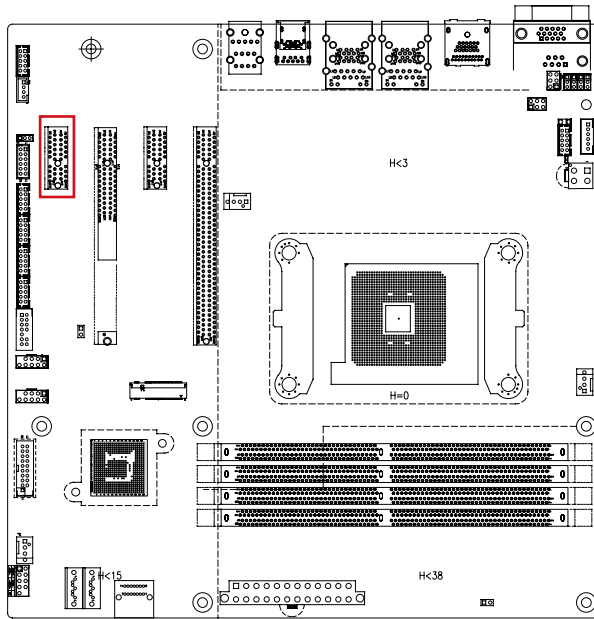


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

Pin No.	Definition	Pin No.	Definition
1	MIC_L	6	GND
2	GND	7	FAUDIO_JD
3	MIC_R	8	No Connect
4	Detect	9	LINE2_L
5	LINE2_R	10	GND

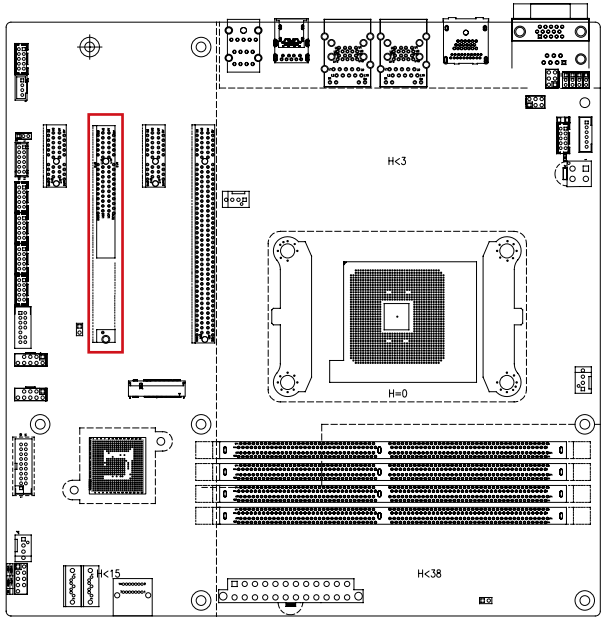
2.2.39 PCIEX1_2 (PCIEX1 #2)

39



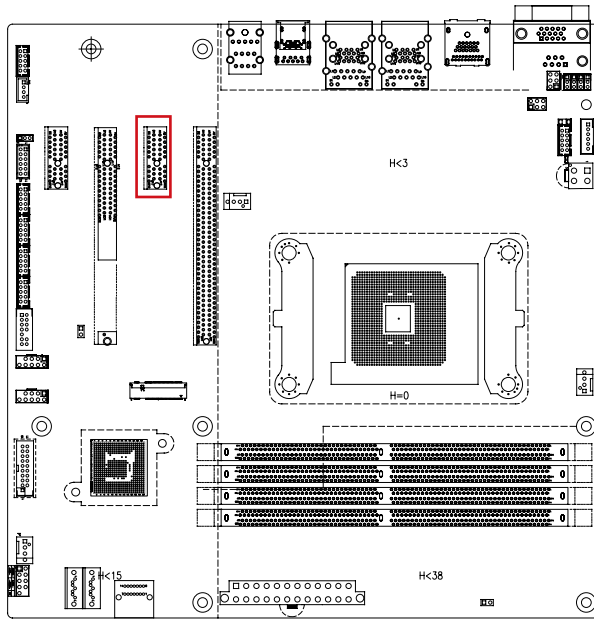
2.2.40 PCIEX4 (PCIEX4)

40



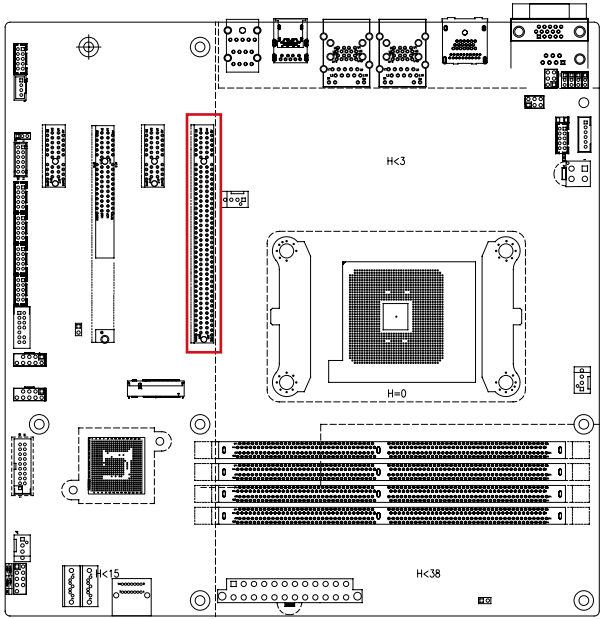
2.2.41 PCIEX1_1 (PCIEX1 #1)

41



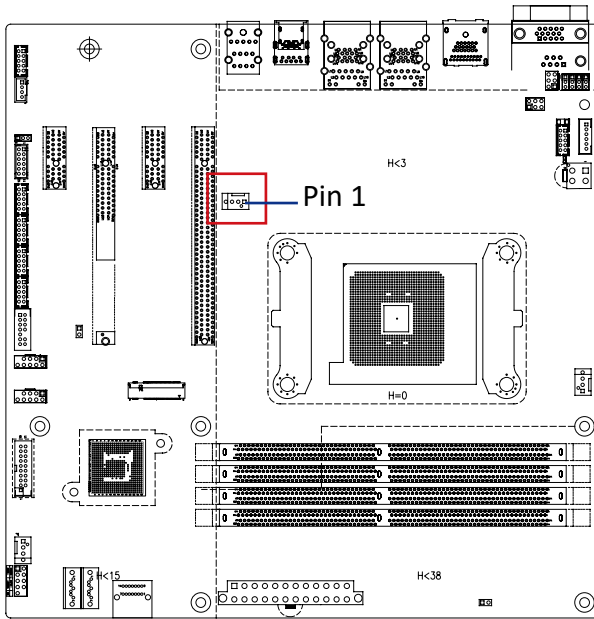
2.2.42 PCIE16X (PCIEX16)


42



2.2.43 SYS_FAN1 (System Fan connector)

43



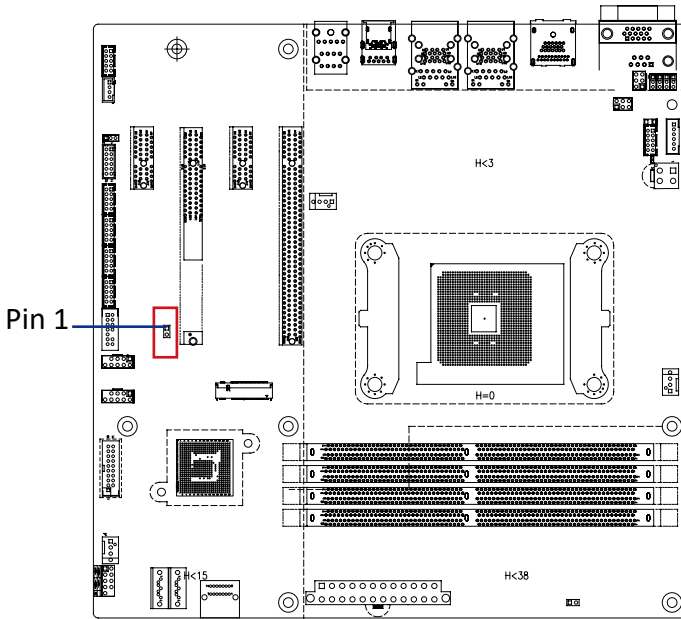
System FAN	
4	

Connector PN	Vendor
744-81-045R11	PINREX
WF04R22RJQ105	HORNGTONG

Pin No.	Definition
1	GND
2	12V
3	FANIO
4	FANPWM

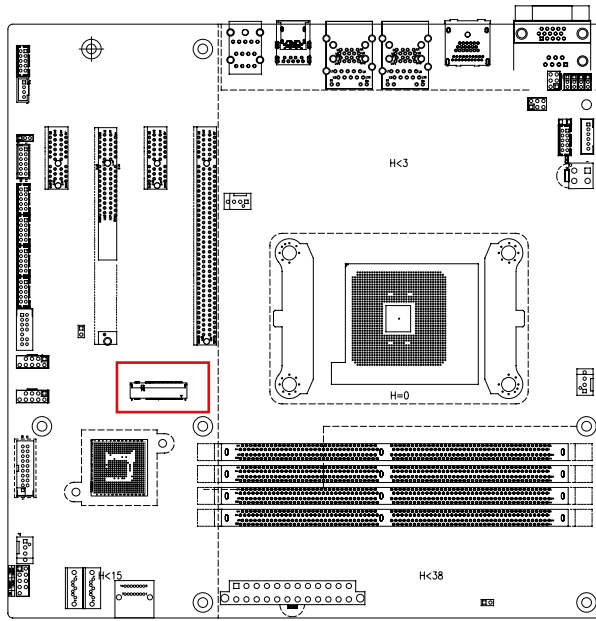
2.2.44 CASE-OPEN

44



2.2.45 M2_M (M.2 M-Key)

45



2.2.46 AMD Socket

46

