

mITX-Q47EA (MQ47EAI-SI)

mITX-Q47EA Mini-ITX 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
mITX-Q47EA MB	1
SATA power cable	2
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	○	○	○	○	○	○
○: 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						

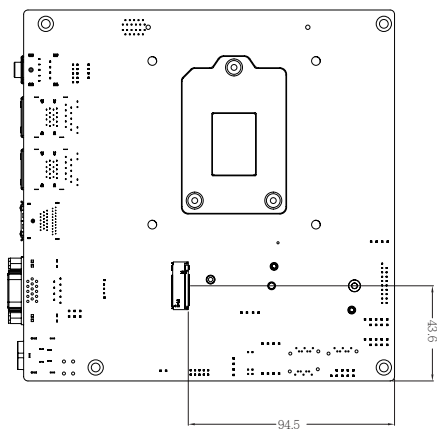
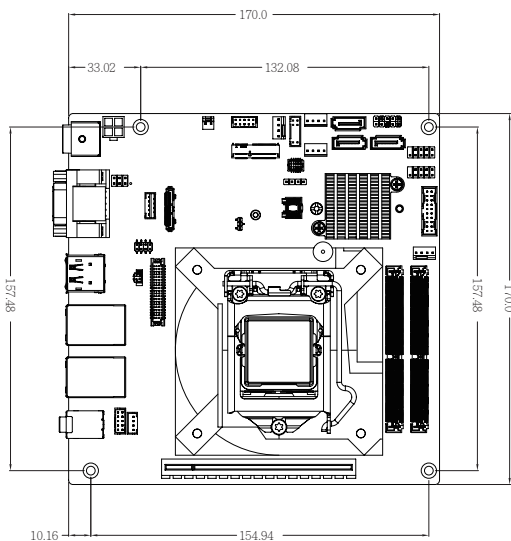
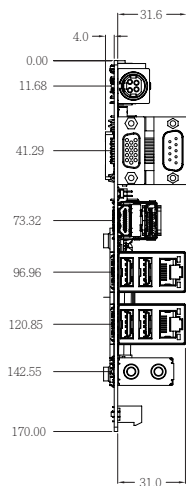
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Chapter 1

Chapter 1 - Product Specifications



1.1 Specifications

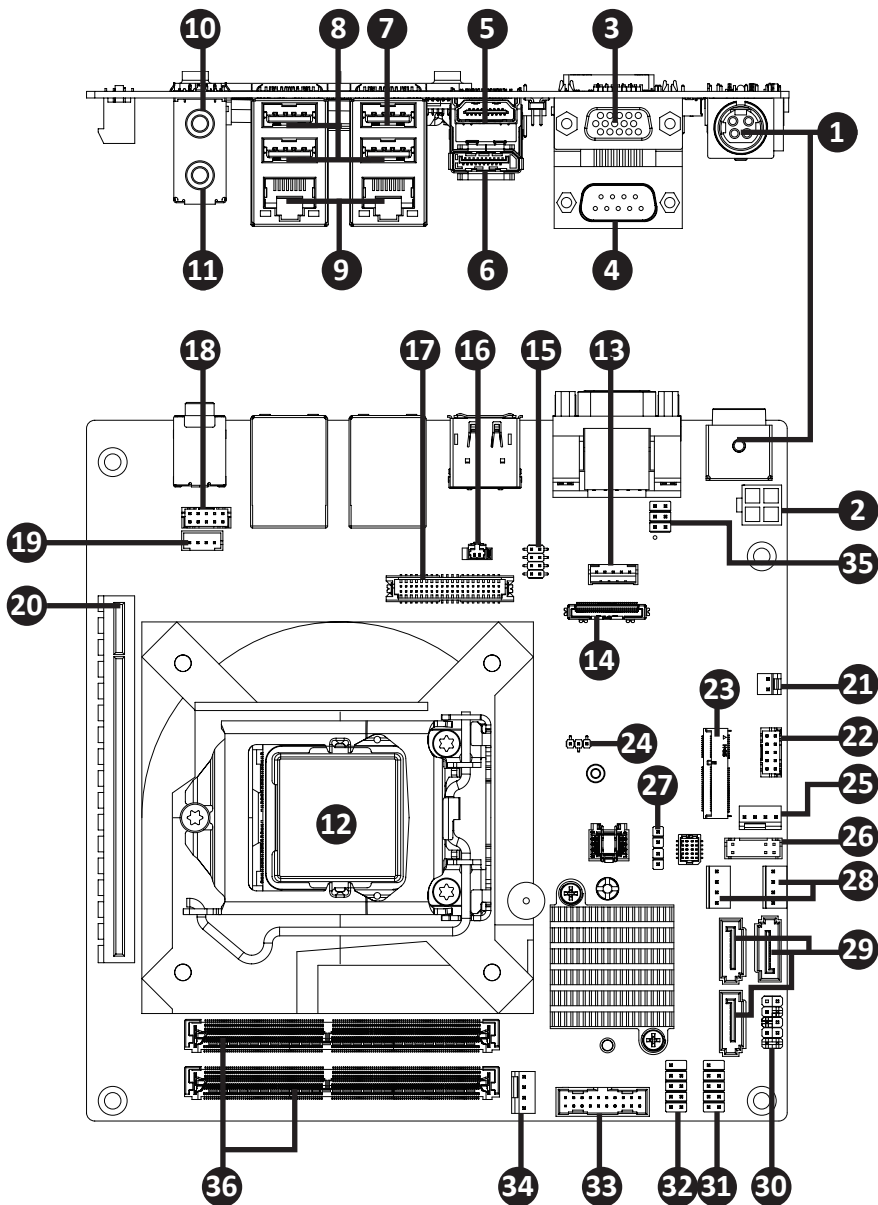
Motherboard	mITX-Q47EA (MQ47EAI-SI)
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support for 10th Generation Intel® Core™ i9/ i7/ i5/ i3 processors, Intel® Pentium®/ Celeron® processors in the LGA1200 package TDP under 65W L3 cache varies with CPU
Socket	1 x LGA 1200
Chipset	Intel® Q470E Express Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64GB Support Dual channel DDR4 2933/2666/2400 MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® i219LM and Intel® i211AT)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0a port, supporting a maximum resolution of 4096x2160 @60Hz 1 x DP 1.4 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x D-Sub port, supporting a maximum resolution of 1920x1200 @60Hz 1 x eDP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz * Support up to 3 displays at the same time
Audio	Realtek® ALC897 High Definition Audio
Storage	3 x SATA 6Gb/s Ports
Raid	Intel® SATA RAID 0/1/5/10
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x 2280 M.2 M-Key (PCIe Gen3 x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1 + USB2.0)

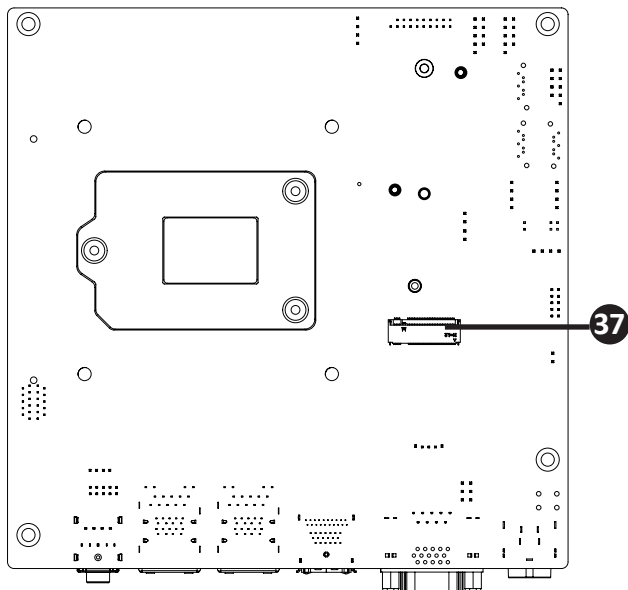
Motherboard	mITX-Q47EA (MQ47EAI-SI)
Internal I/O	1 x 4-pin ATX main power connector 3 x SATA 6Gb/s connectors 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232) 1 x Clear CMOS jumper 1 x GPIO (8 bits) & SMBUS header 1 x Backlight Control header 1 x eDP connector 1 x PSU on header (Support ATX PSU PSU_ON) 1 x LVDS connector 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 and RI/5V/12V) 1 x HDMI 1 x Display Port 1 x D-Sub 2 x RJ45 LAN Ports 3 x USB 3.2 Gen 1 (Blue) 1 x USB 3.2 Gen 2x1 (Red) 1 x DC Jack (+12V/+19V~+24VDC)
TPM	1 x TPM Header (LPC)
OS Compatibility	Windows® 10 (x64)
PSU Connectors	1 x DC-in (+12V/+19V~+24VDC) 1 x 4-pin ATX power connector
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)
Order Information	Motherboard: 9MQ47EAINR-SI
Optional kit:	TPM 2.0 module: 9CTM000NR-00 TPM Cable: 25CRZ-100600-S9R

Chapter 2

Chapter 2 – Hardware Information

2.1 Jumpers and Connectors



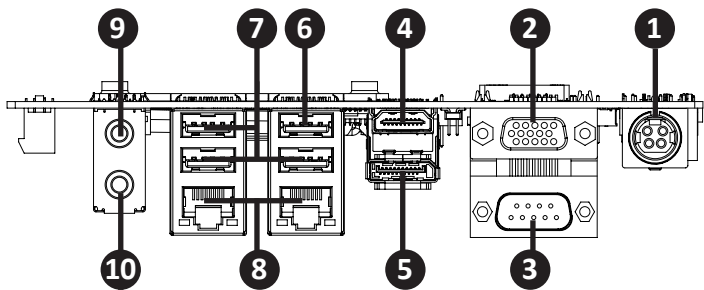


No	Code	Description
1	DC_IN	DC In Jack 4 pin Din
2	DC_IN2	ATX 2x2 pin power Connector
3	VGA	VGA Port
4	COM1	COM1 RS232/422/485 & 5V/12V/RI Port
5	HDMI 2	HDMI 2.0 Connector
6	DP	Display Port Connector
7	USB31	USB 3.2 Gen 2x1 Connector x 1 (Red)
8	USB3	USB 3.2 Gen 1 Connector x 3 (Blue)
9	LAN1, LAN2	GbE LAN port x 2

No	Code	Description
10	LINE_OUT	Line Out port (Green)
11	MIC_IN	Mic In port (Pink)
12	CPU Socket	1 x LGA 1200 Socket
13	BKL_CN	Backlight Control connector
14	EDP	Embedded Display Port connector
15	LSW	LVDS Resolution jumper
16	Battery	Battery Connector
17	LVDS	LVDS Connector
18	FP_Audio	Front Panel Audio header
19	SPKR	Speaker out Connector
20	PCIEX16	1 x PCIe x16 (Gen3 x16 bus) slot
21	ATX_CTL	ATX Control Header, Support PS-ON Signal of Power Supply Unit
22	COM2	COM header RS232
23	M2E	M.2 Slot, E-Key, Supports NGFF-2230
24	AT_CN	AT/ATX power mode select jumper
25	SYS_FAN	System Fan Connector
26	GPIO_CNT	General purpose input/output header
27	CLR_CMOS	Clear CMOS jumper
28	SATA_PWR1_2	SATA Power Connector x 2
29	SATA2, 3, 4	SATA 6 Gb/s Connector x 3
30	SYS_PANEL	System Panel header
31	F_USB2_1	USB 2.0 header
32	F_USB2_2	USB 2.0 header

No	Code	Description
33	F_USB3	USB 3.2 Gen 1 header
34	CPU_FAN	CPU FAN Connector
35	JCOM1	COM1 RI# pin RI#/5V/12V Select
36	SODIMM1, SODIMM2	2 x DDR4 SO-DIMM Sockets
37	M2M	M.2 Slot, M-Key, PCIe Gen3 x4, SATA 6Gb/s per slot, Supports NGFF-2280 cards

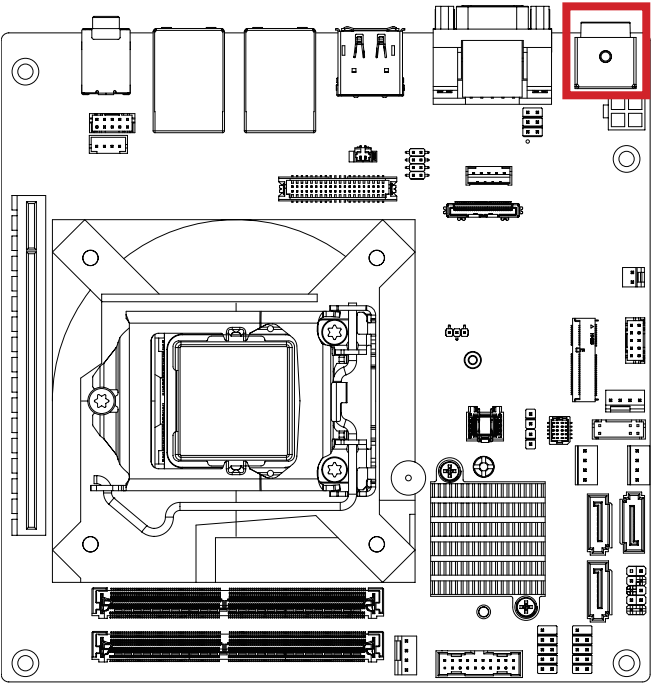
2.2.1 IO Connector Information



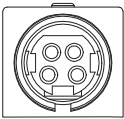
	Code	Description
1	DC_IN	DC In Jack 4 pin Din
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4	HDMI 2	HDMI 2.0 Connector
5	DP	Display Port Connector
6	USB31	USB 3.2 Gen 2x1 Connector x 1 (Red)
7	USB3	USB 3.2 Gen 1 Connector x 3 (Blue)
8	LAN1, LAN2	GbE LAN port x 2
9	LINE_OUT	Line Out port (Green)
10	MIC_IN	Mic In port (Pink)

2.2.2 DC_IN (DC In Jack 4 Pin Din)

1



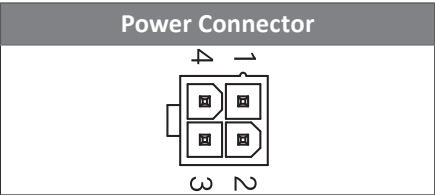
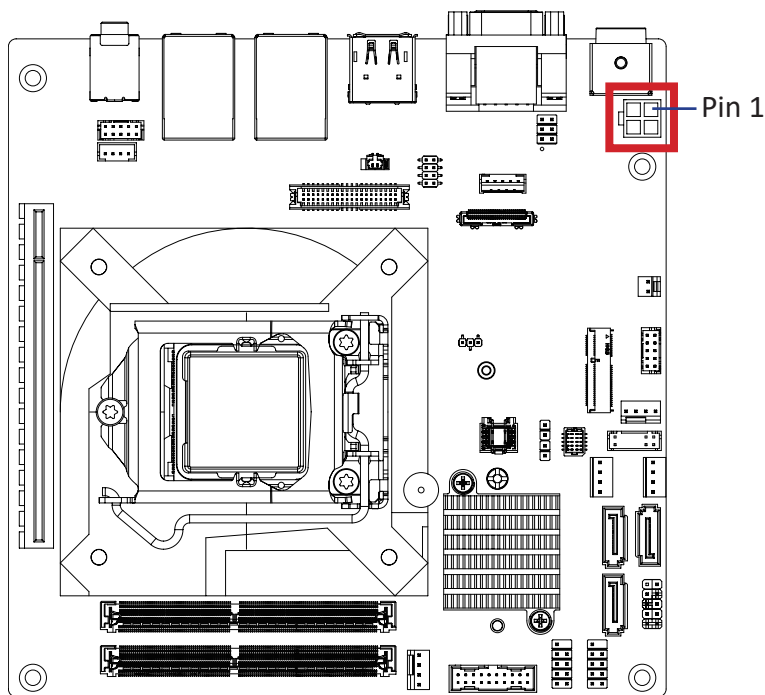
DC In Jack 4 Pin Din



Connector PN	Vendor
2MJ-3422A110	SINGATRON

2.2.3 DC_IN2 (ATX 2x2 Pin Power Connector)

2

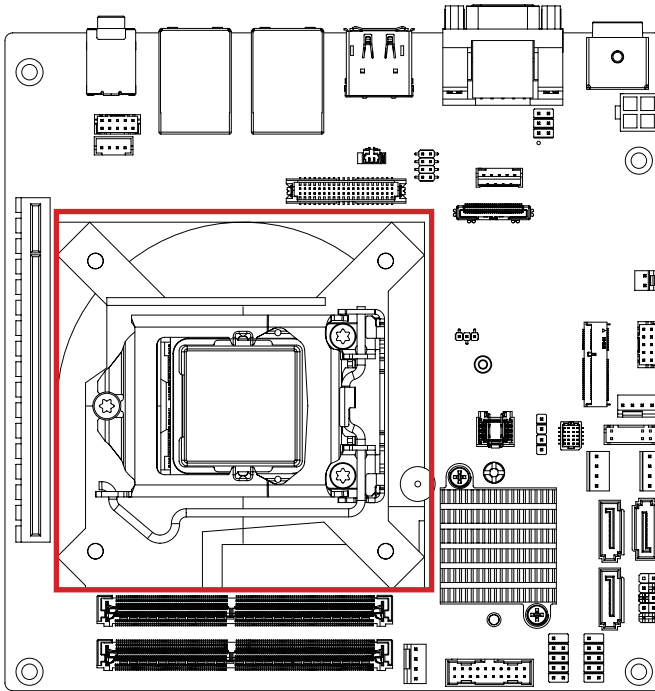


Connector PN	Vendor
740-81-04TW56	PINREX

Pin No.	Definition
1	GND
2	GND
3	DC IN
4	DC IN

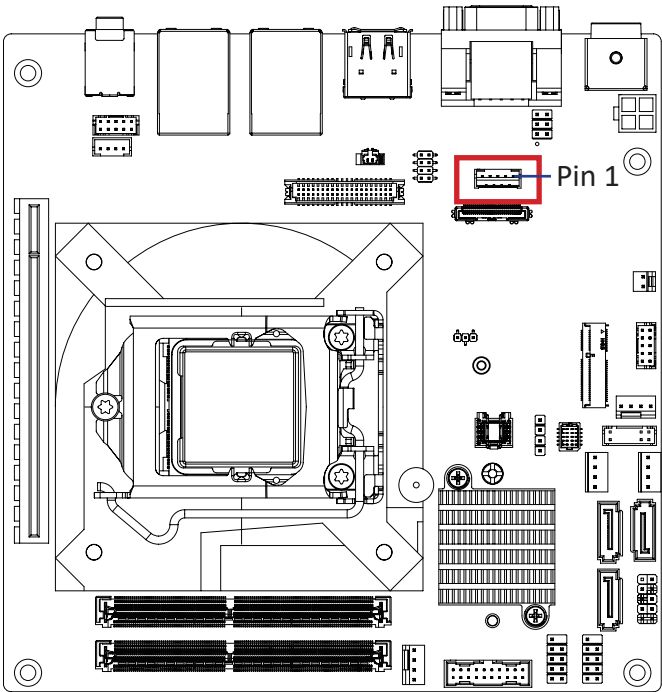
2.2.4 CPU Socket (LGA 1200 Socket)

12

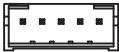


2.2.5 BKL_CN (Backlight Control Connector)

13



Backlight Control Connector

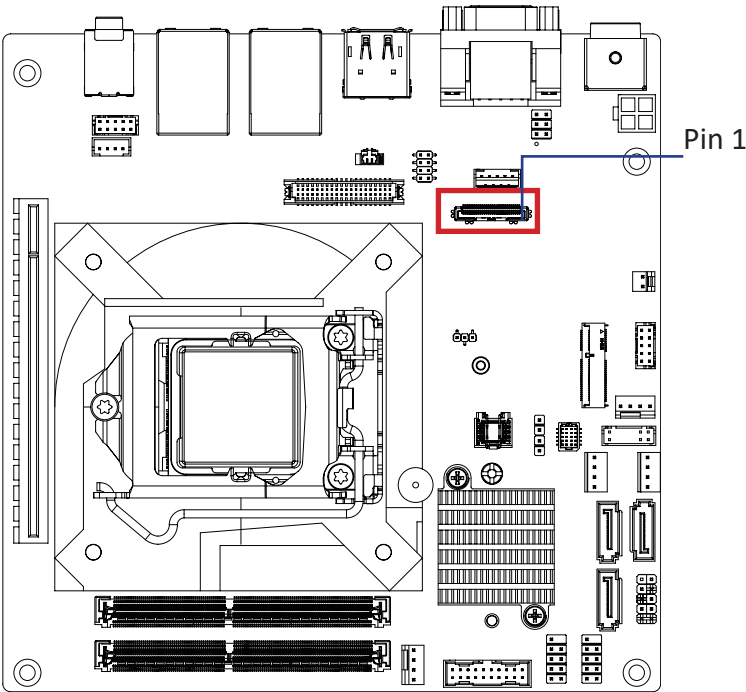
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Connector PN	Vendor
721-81-05TW00	PINREX
A2001WV-05P146	JOINT-TECH

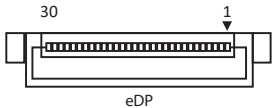
Pin No.	Definition
1	5V
2	PWM
3	Backlight enable
4	GND
5	12V

2.2.6 EDP (Embedded Display Port connector)

14



Embedded Display Port connector



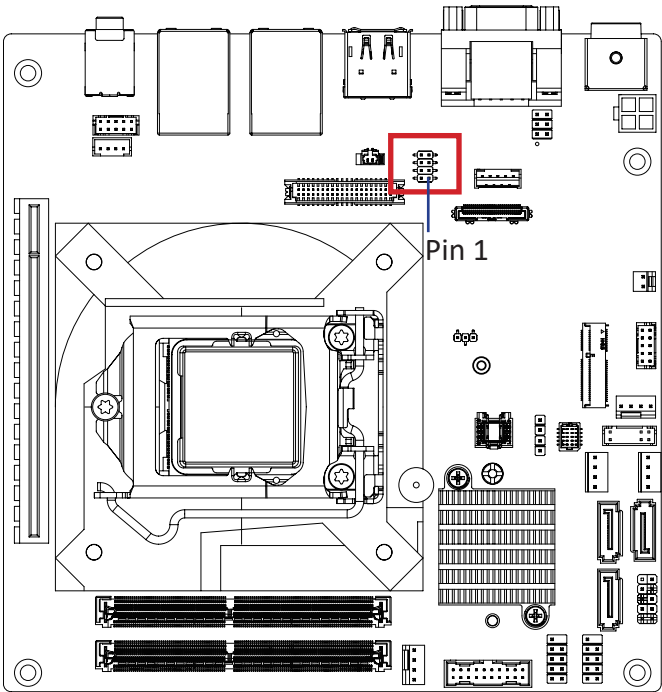
Pin No.	Definition	Pin No.	Definition
1	GND	16	GND
2	TX0n	17	Hot Plug Detect
3	TX0p	18	Backlight Enable
4	GND	19	GND
5	TX1n	20	Backlight control
6	TX1p	21	GND
7	GND	22	3.3V
8	TX2n	23	3.3V
9	TX2p	24	3.3V

Pin No.	Definition	Pin No.	Definition
10	GND	25	3.3V
11	TX3n	26	GND
12	TX3p	27	5V
13	GND	28	5V
14	AUXn	29	5V
15	AUXp	30	5V

Connector PN	Vendor
115B30-000040-G4-R	STARCONN

2.2.7 LSW (LVDS Resolution Jumper)

15



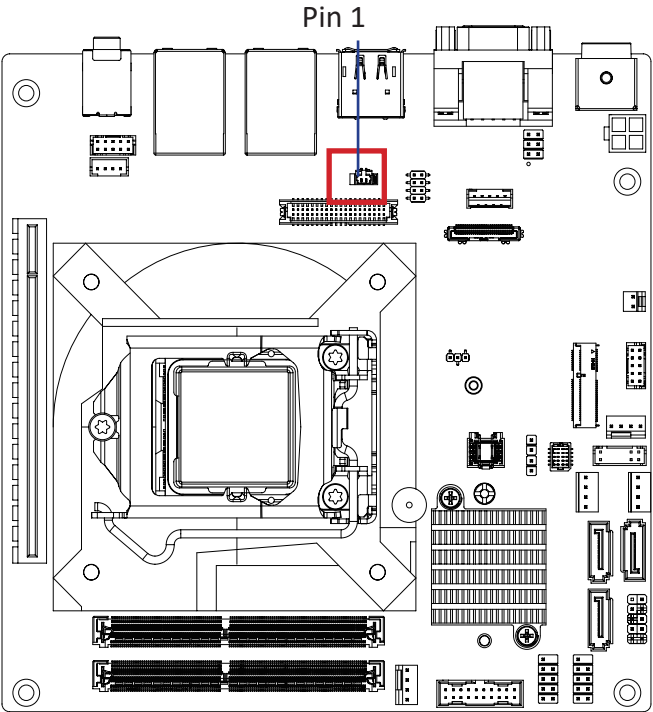
LVDS Resolution Jumper			
Jumper Setting	Resolution	Jumper Setting	Resolution
	800 x 600 18bit		1366 x 768 24bit
	1024 x 768 18bit		1440 x 900 24bit
	1024 x 768 24bit		1400 x 1050 24bit
	1024 x 600 18bit		1600 x 900 24bit
	1280 x 800 18bit		1680 x 1050 24bit
	1280 x 960 18bit		1600 x 1200 24bit
	1280 x 1024 24bit		1920 x 1080 24bit

LVDS Resolution Jumper			
	1366 x 768 18bit		1920 x 1200 24bit

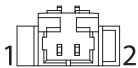
Connector PN	Vendor
222-97-04GBE1	PINREX

2.2.8 Battery (Battery Connector)

16



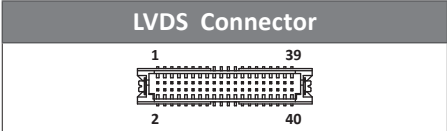
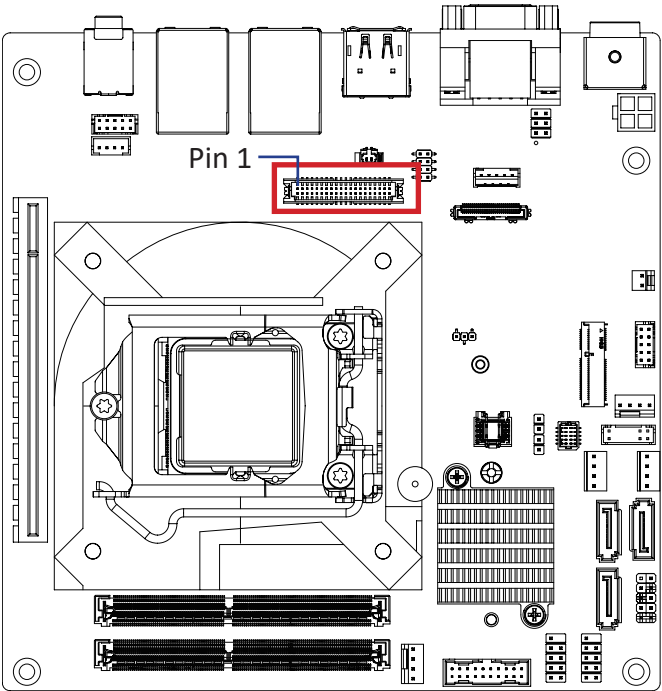
Battery Connector



Pin No.	Definition
1	3V
2	GND

2.2.9 LVDS (LVDS Connector)

17



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	SPE0	25	GND
6	SPED0	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

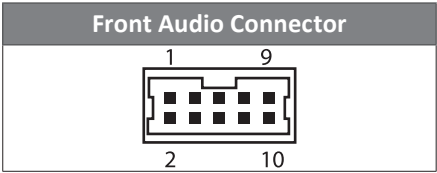
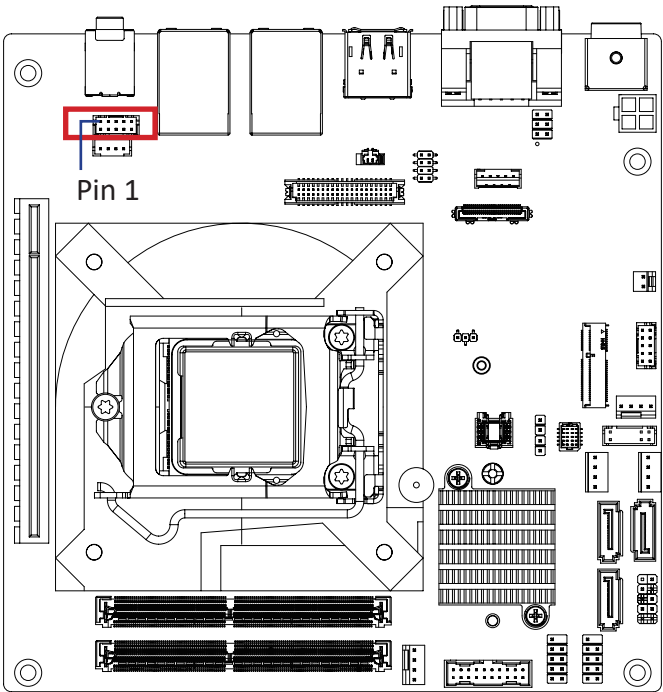
Connector PN	Vendor
712-76-40GWE0	PINREX
A1252WV-SF-2X20PD01	JOINT-TECH

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

2.2.10 FP_Audio (Front Panel Audio header)

18

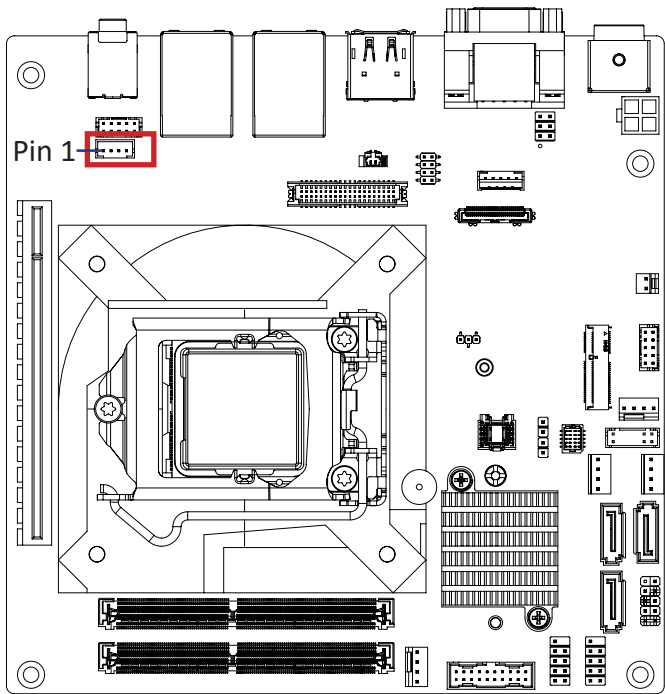


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

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

2.2.11 SPKR (Speaker Out Connector)

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Speaker Out Connector

1



Connector PN

721-81-045W00

A2001WV-04P146

Vendor

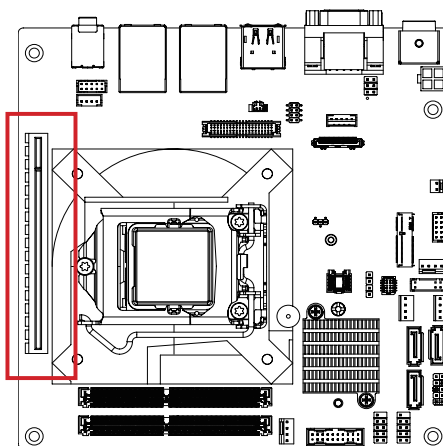
PINREX

JOINT-TECH

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

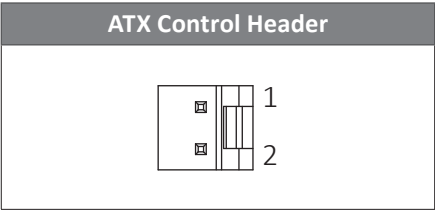
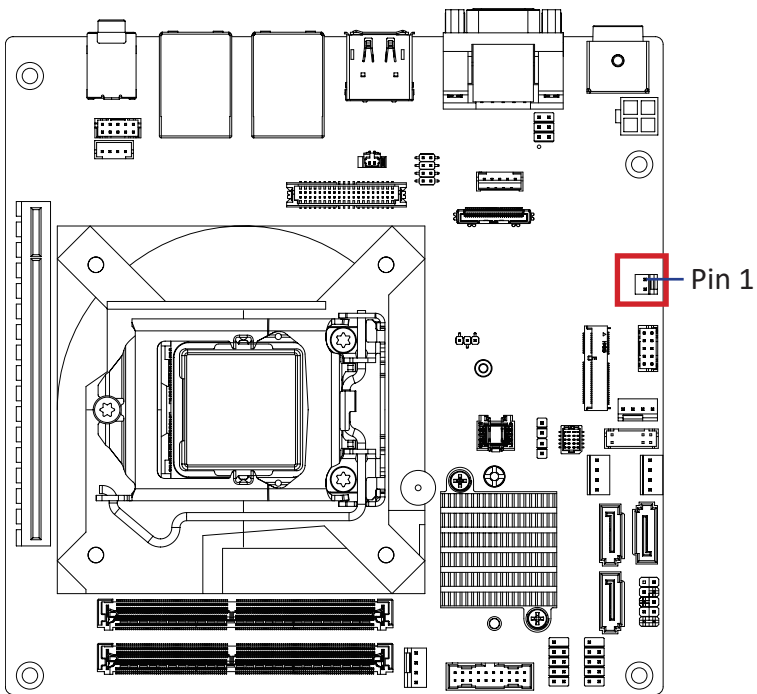
2.2.12 PCIEX16 (1 x PCIe x16 (Gen3 x16 Bus) Slot)

20



2.2.13 ATX_CTL (ATX Control header, Support PS-ON Signal of Power Supply Unit)

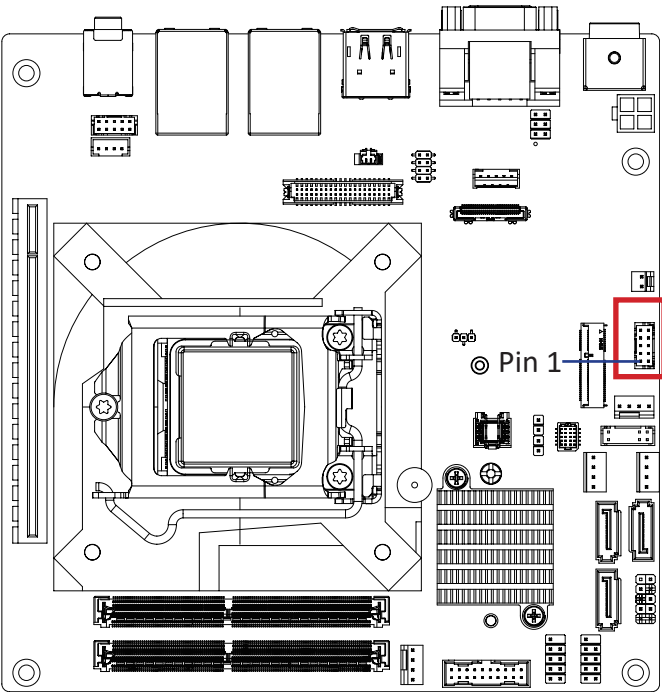
21



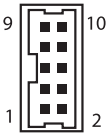
Pin No.	Definition
1	PSON#
2	5V

2.2.14 COM2 (RS232 Serial Port header)

22



COM 2 header

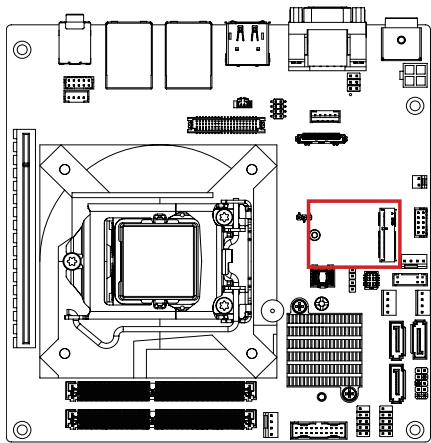


Pin No.	Definition
1	RX
2	DCD
3	DTR
4	TX
5	DSR
6	GND
7	CTS
8	RTS
9	RI
10	NC

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

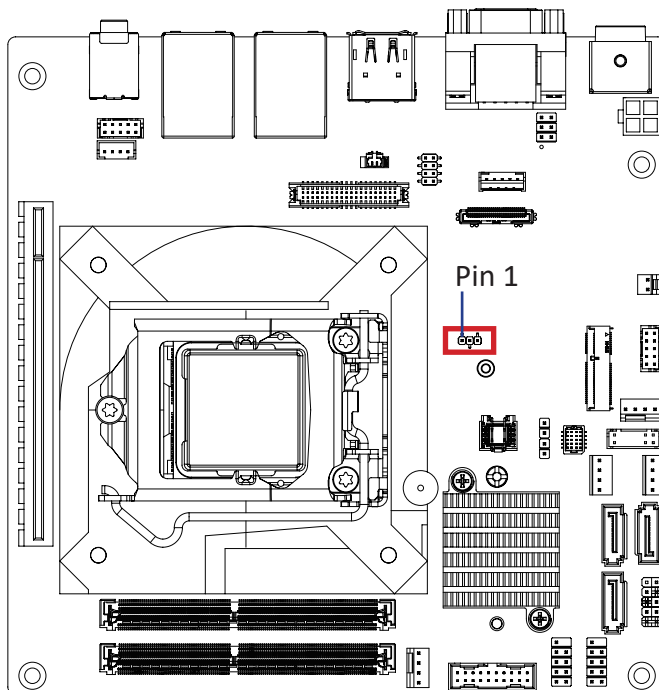
2.2.15 M2E (M.2 Slot, E-Key, Supports NGFF-2230)

23



2.2.16 AT_CN (AT/ATX power mode select jumper)

24



AT/ATX power mode select jumper



Connector PN

222-96-03GBE1

Vendor

PINREX

Pin No.

1

AT MODE

2

Detect

3

ATX MODE

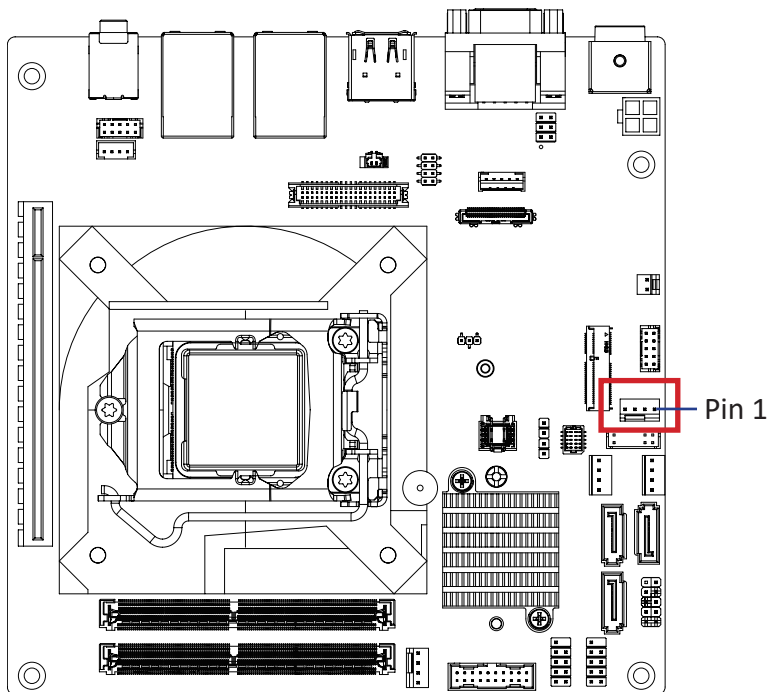
Jumper setting

1-2 Close : AT mode.

2-3 Close : ATX mode.(Default setting)

2.2.17 SYS_FAN (System Fan Connector)

25



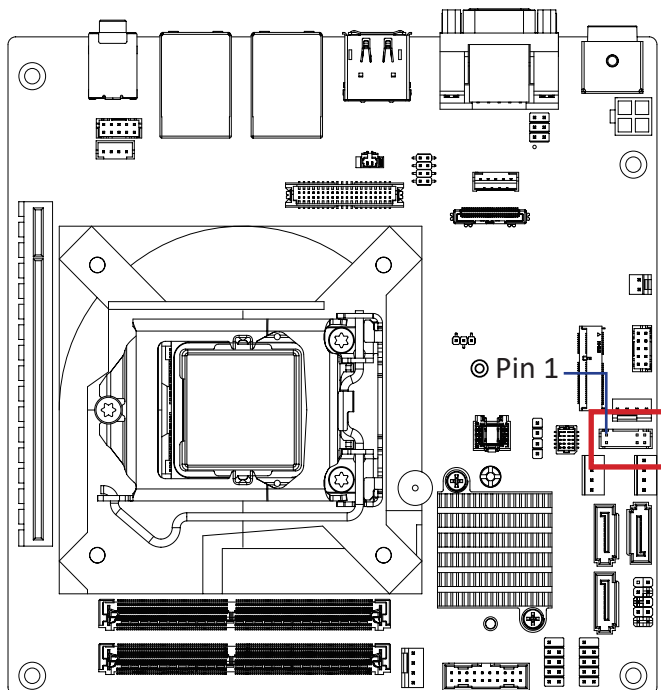
System FAN	
4	1

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

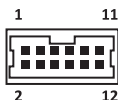
Pin No.	Definition
1	GND
2	12V
3	Sense
4	PWM

2.2.18 GPIO_CNT (General purpose input/out header)

26



GPIO Connector



Pin No.

Definition

9	SMBus Clock
10	SMBus DATA
11	5V
12	GND

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

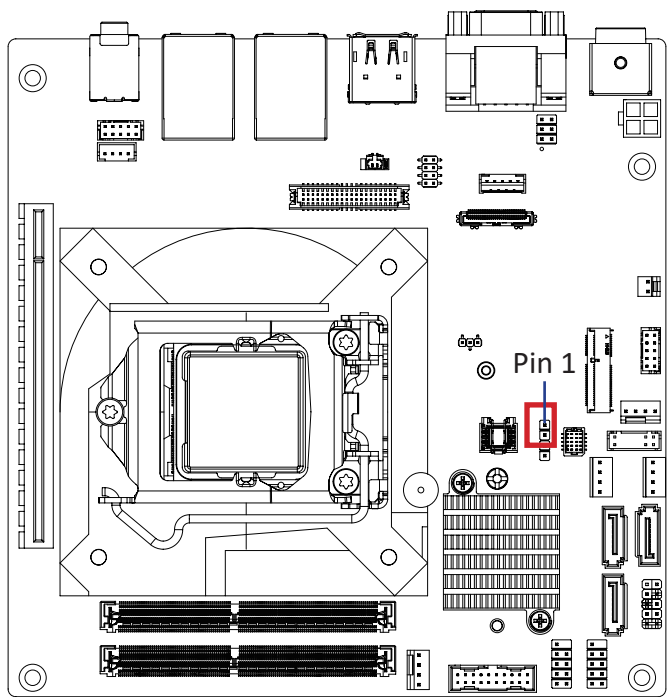
Connector PN

Vendor

725-81-12TW00	PINREX
A2004WV-2X06P46	JOINT-TECH

2.2.19 CLR_CMOS (Clear CMOS jumper)

27



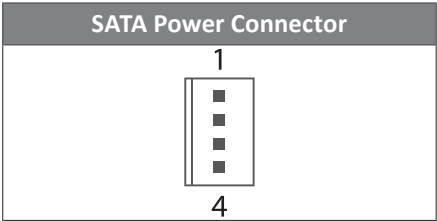
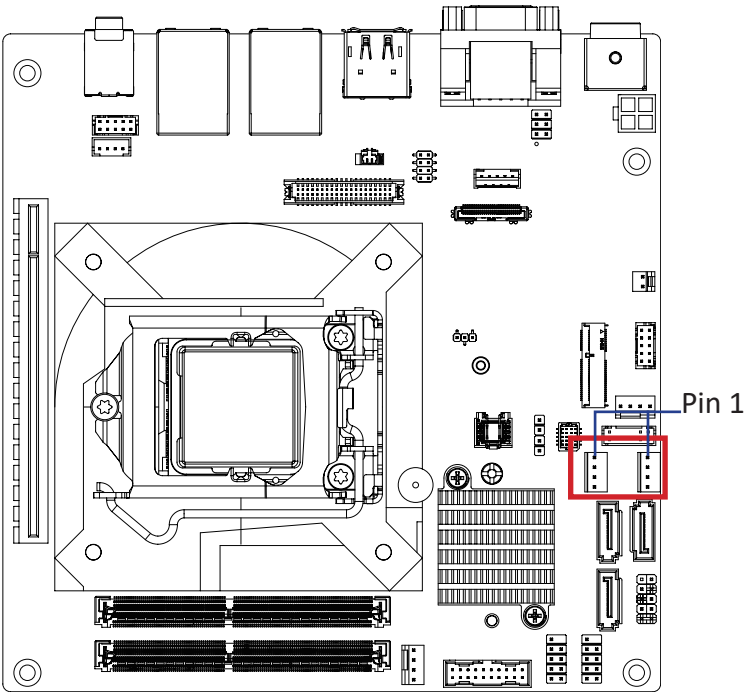
Clear COMS jumper



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

2.2.20 SATA_PWR (SATA Power Connector x 2)

28

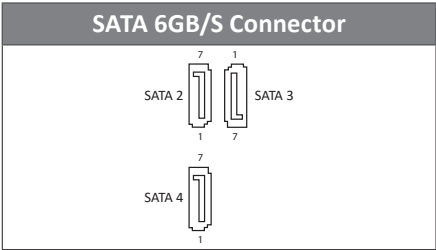
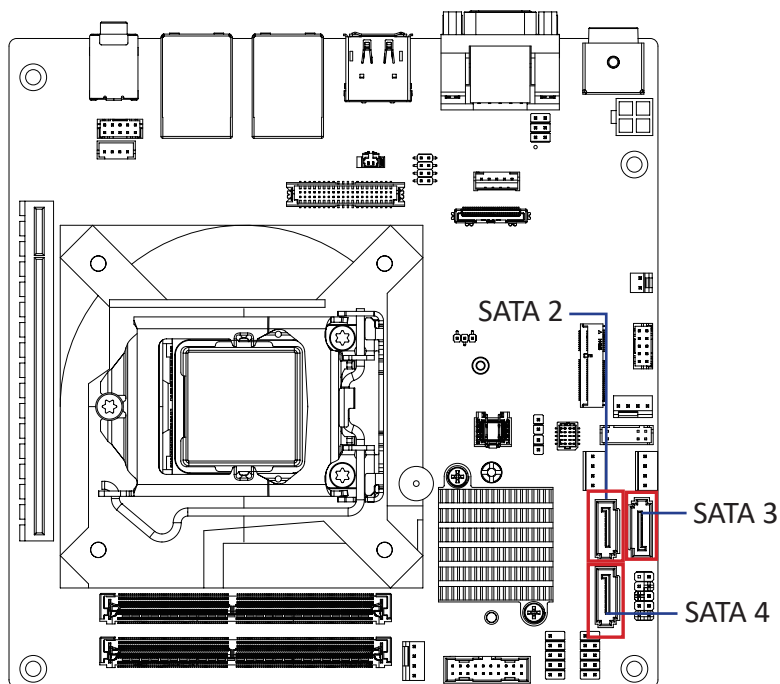


Connector PN	Vendor
743-81-04TW00	PINREX
WF04Q2-3BJQ000	HORNGTONG

Pin No.	Definition
1	12V
2	GND
3	GND
4	5V

2.2.21 SATA2, 3, 4 (SATA 6 Gb/s Connector x 3)

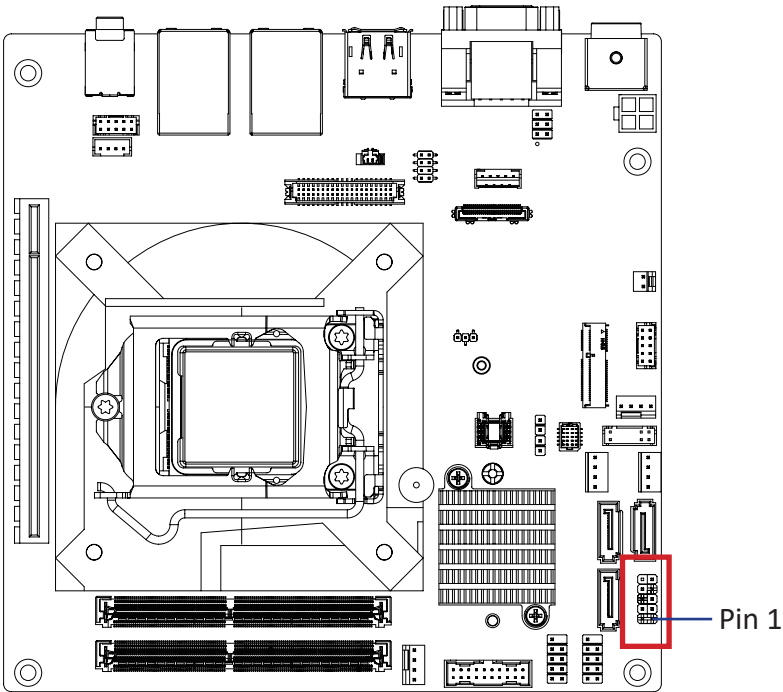
29



Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

2.2.22 SYS_PANEL (System Panel header)

30



System Panel Header



Connector PN

210-92-05G111

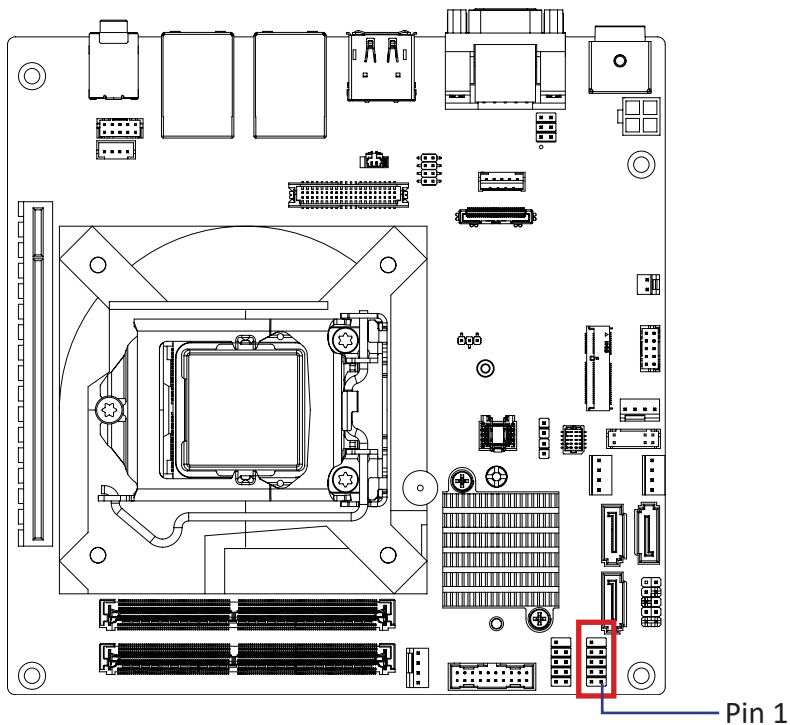
Vendor

PINREX

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

2.2.23 FUSB2_1 (USB 2.0 header)

31



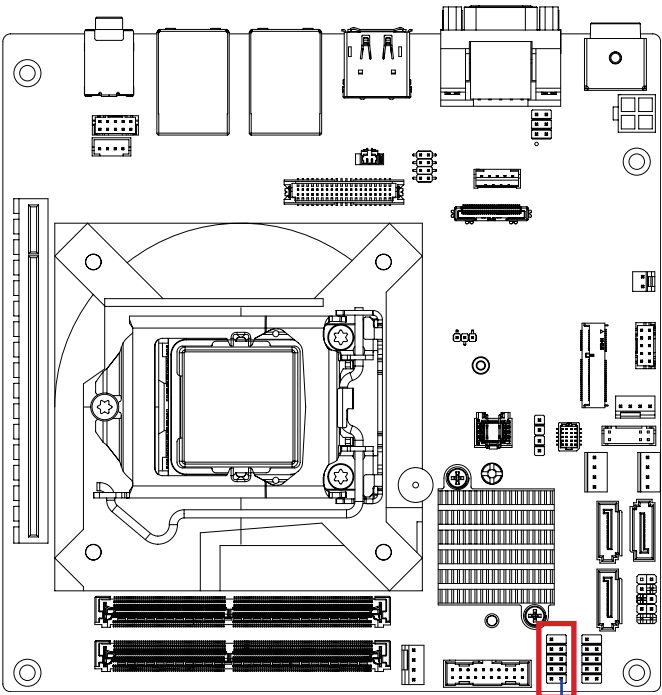
USB 2.0 Header	
10	9
8	7
6	5
4	3
2	1

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

2.2.24 FUSB2_2 (USB 2.0 header)

32



Pin 1

USB 2.0 Header



Connector PN

210-92-05GB04

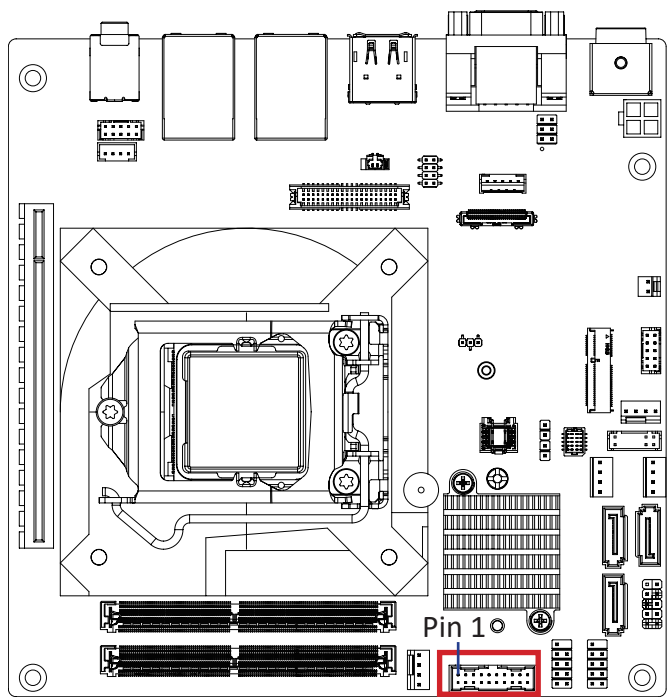
Vendor

PINREX

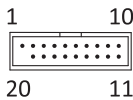
Pin No.	Definition
1	5V
2	5V
3	D2n
4	D1n
5	D2p
6	D1p
7	GND
8	GND
9	No Pin
10	NC

2.2.25 FUSB3 (USB 3.2 Gen 1 header)

33



USB 3.2 Gen 1 header



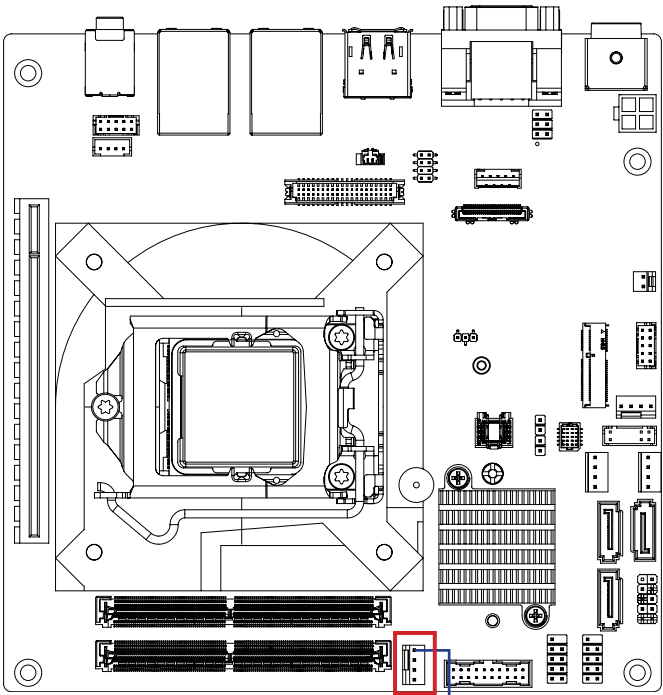
Pin No.	Definition
1	5V
2	RX1n
3	RX1p
4	GND
5	TX1n
6	TX1p
7	GND
8	D1n
9	D1p
10	OC

Pin No.	Definition
11	D2p
12	D2n
13	GND
14	TX2p
15	TX2n
16	GND
17	RX2p
18	RX2n
19	5V
20	NC

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

2.2.26 CPU_FAN (CPU FAN Connector)

34



Pin 1

CPU Fan Connector



Connector PN

744-81-045W11

Vendor

PINREX

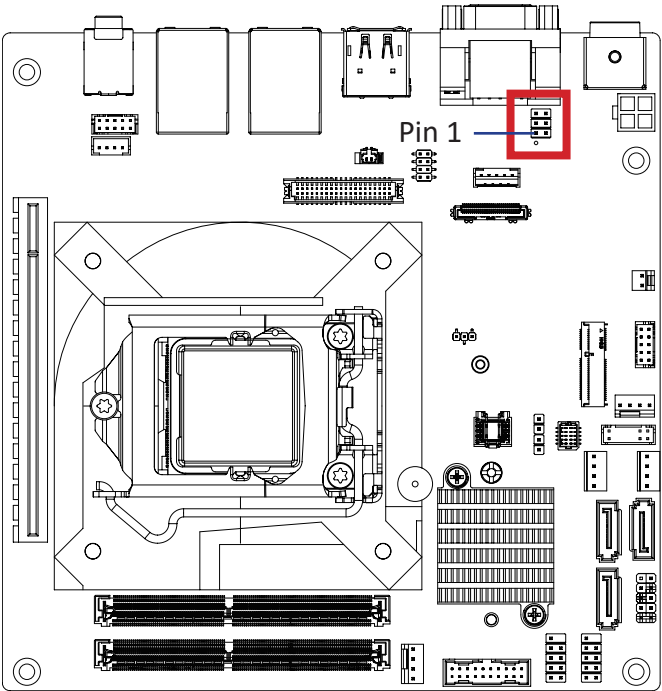
Pin No.

Definition

1	GND
2	12V
3	Sense
4	PWM

2.2.27 JCOM1 (COM1 RI# pin RI#/5V/12V Select)

35

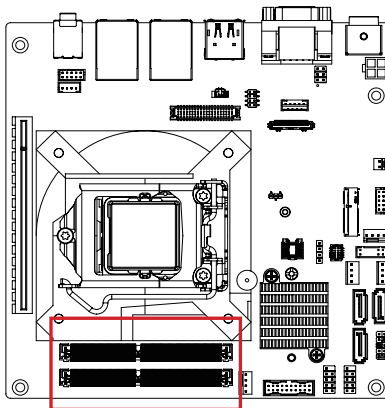


JCOM1 Jumper Select	
5 6 1 2 5V (Power COM)	
5 6 1 2 RI (Stand COM)	
5 6 1 2 12V (Power COM)	

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

2.2.28 SODIMM1, SODIMM2 (2 x DDR4 SO-DIMM Sockets)

36



2.2.29 M2M (M.2 Slot, M-Key, PCIe Gen3 x4, SATA 6Gb/s per slot, Supports NGFF-2280 cards)

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