

mITX-H310A (MH310AI-SI)

Thin 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-H310A MB	1
SATA power cable	1
I/O Bracket	1
Screw Flat Head M2*2.5	1
Screw Stand Off 12L15	1
Screw I Head M2x3L	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						

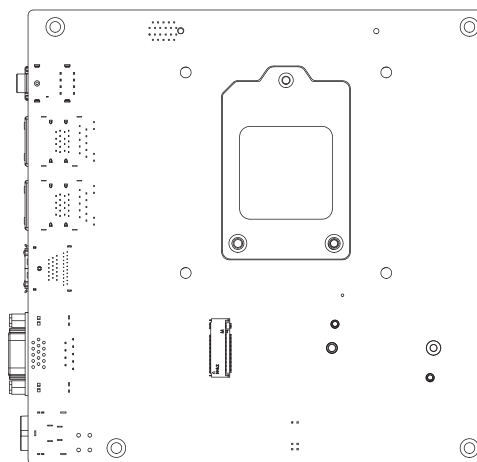
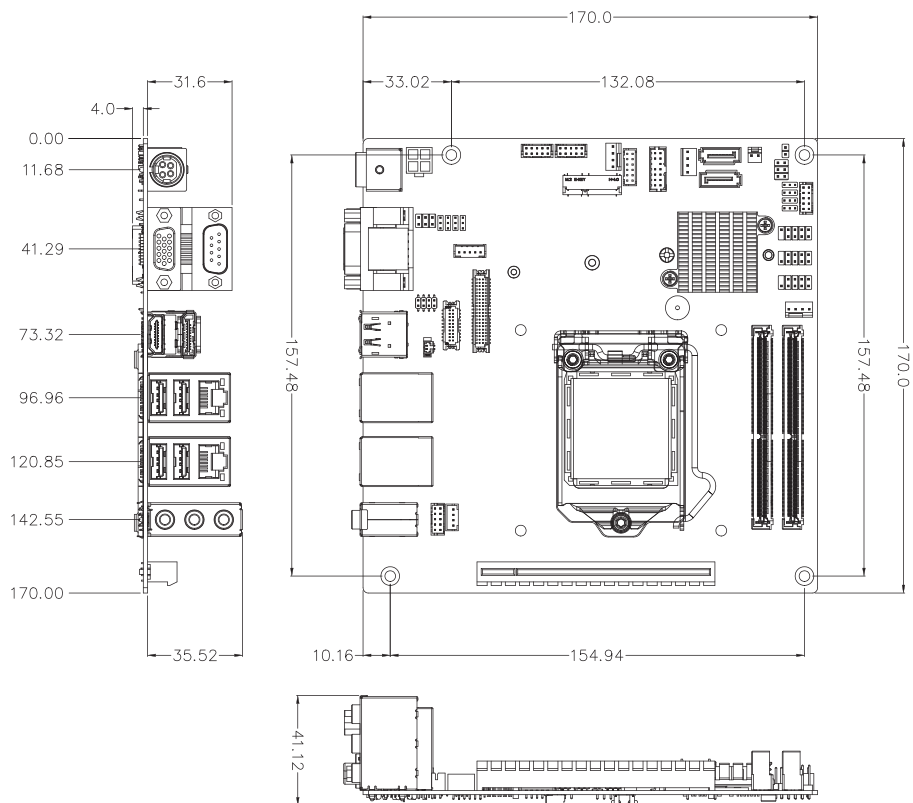
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Chapter 1

Chapter 1 – Product Specifications



1.1 Specifications

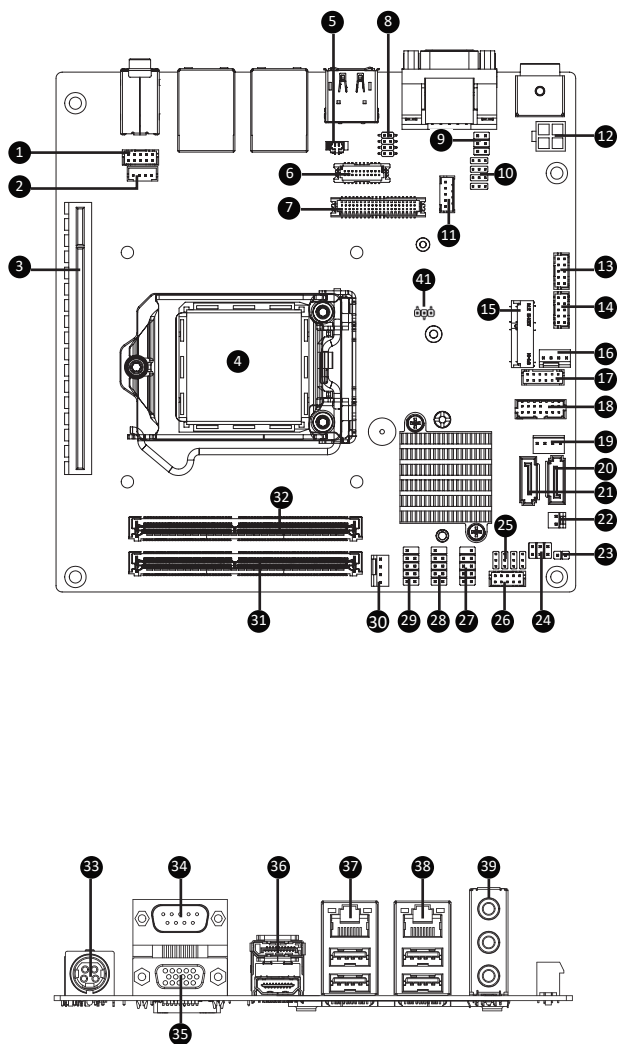
Motherboard	mITX-H310A (MH310AI-SI)
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support for 9th/8th Generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processors in the LGA1151 package TDP under 65W L3 cache varies with CPU
Socket	1 x LGA 1151
Chipset	Intel® H310 Express Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual channel DDR4 2666/2400 MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI port, supporting a maximum resolution of 4096x2160 @30Hz 1 x DP 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 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz * eDP port is alternative with LVDS port, only one can be worked at the same time (2 independent display outputs)
Audio	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (WiFi/BT)

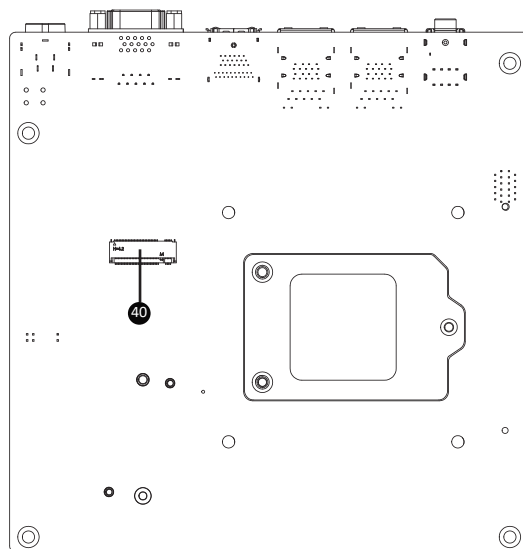
Motherboard	mITX-H310A (MH310AI-SI)
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W speaker out header 4 x USB 2.0 headers 2 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBUS header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x ATX Control header 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, 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 1 x DC Jack (+12V/+19V/+24VDC)
TPM	1 x TPM header
OS Compatibility	Windows 10 (x64)
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)
Packing Content	Carton size: 465 x 351 x 217 (mm) Packing Capacity: 10pcs Including: IO Shield x 1 (P/N: 12AIO-MDH114-00R) SATA Power cable x 1 (P/N: 25CRI-300B01-K1R) Screw Flat Head M2*2.5 x 1 (P/N: 12KS2-110202-01R) Screw Stand Off 12L15 x 1 (P/N: 12KSF-F10303-20R) Screw I Head M2x3L x 1 (P/N: 25KSG-130032-S0R)
Order Information	9MH310AIMR-SI (Box packing)
Optional kit:	TPM 2.0 module: 9CTM000NR-00

Chapter 2

Chapter 2 – Hardware Information

2.1 Jumpers and Connectors





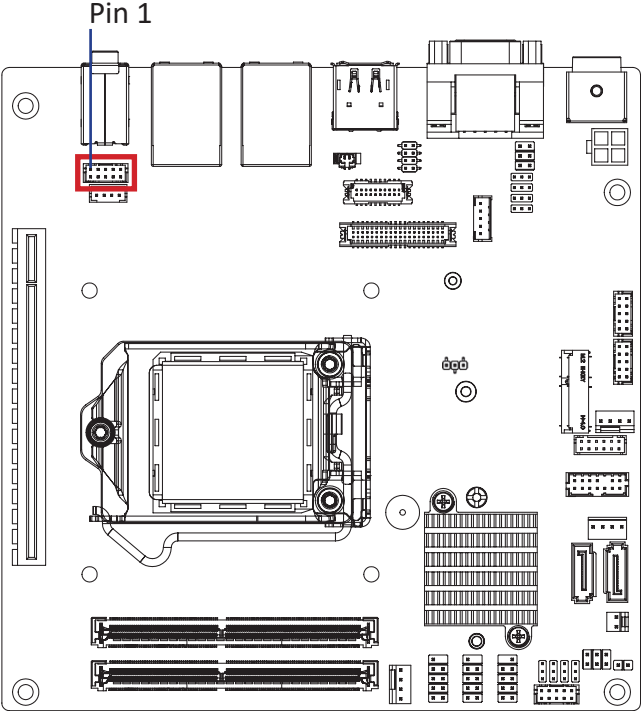
No	Code	Description
1	FP_AUDIO	Front audio header
2	SPKR	Speaker out connector
3	PCIEX16	PCIE x16 slot
4	LGA1151	Intel® LGA1151 socket
5	BATTERY	Battery cable connector
6	EDP	Embedded Display Port connector
7	LVDS	LVDS connector
8	LSW	LVDS resolution jumper
9	JCOM11	RI pin RI/5V/12V select jumper for COM1 port
10	JRS11-14	RS-232/422/485 select jumper for COM1 port
11	BKL_CN	Backlight Control connector

No	Code	Description
12	DC_IN2	ATX 2x2 pin power connector
13	COM4	Serial port header (RS-232)
14	COM3	Serial port header (RS-232)
15	M2E	1 x M.2 2230 E-Key slot
16	SYS_FAN	System fan connector
17	GPIO_CNT	General Purpose input/output header
18	TPM	TPM connector
19	SATA_PWR1	SATA 6Gb/s power connector
20	SATA1	SATA 6Gb/s connector
21	SATA2	SATA 6Gb/s connector
22	ATX_CTL	ATX Control header
23	JCOM16	RI pin RI/5V/12V select jumper for COM2 port
24	CLR_CMOS	Clear CMOS jumper
25	JRS21-24	RS-232/422/485 select jumper for COM2 port
26	COM2	Serial port header (RS-232/422/485 & RI/5V/12V)
27	SYS_PANEL	Front panel header
28	FUSB2_1	USB 2.0 header
29	FUSB2_2	USB 2.0 header
30	CPU_FAN	CPU fan connector
31	SODIMM1	DDR4 SO-DIMM slot#1
32	SODIMM2	DDR4 SO-DIMM slot#2
33	DC_IN1	DC In Jack

No	Code	Description
34	COM1 (TOP)	Serial port (RS-232/422/485 & RI/5V/12V)
35	VGA (Bottom)	D-Sub port
36	HDMI_DP	Display port (top) HDMI port (bottom)
37	USB3_LAN1	2 x USB 3.2 Gen 1 + GbE LAN Port
38	USB3_LAN2	2 x USB 3.2 Gen 1 + GbE LAN Port
39	AUDIO	3 x Audio Jacks (Line in, Line out, Mic in)
40	M2_M	1 x M.2 Slot 2242/2280 Storage SATA
41	AT_CN	AT/ATX power mode select jumper

2.2.1 FP_AUDIO (Front audio header)

1



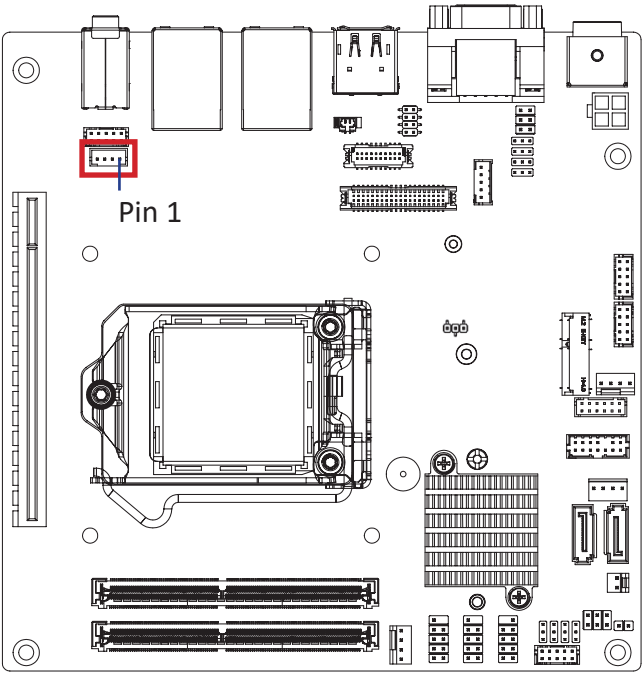
Front Audio Connector	

Pin No.	Definition	Pin No.	Definition
1	MIC_L	6	GND
2	GND	7	JD
3	MIC_R	8	No Connect
4	Detect	9	HPOUT_L
5	HPOUT_R	10	GND

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

2.2.2 SPKR (Speaker out Connector)

2



Audio Amplifie Connector	
4	1

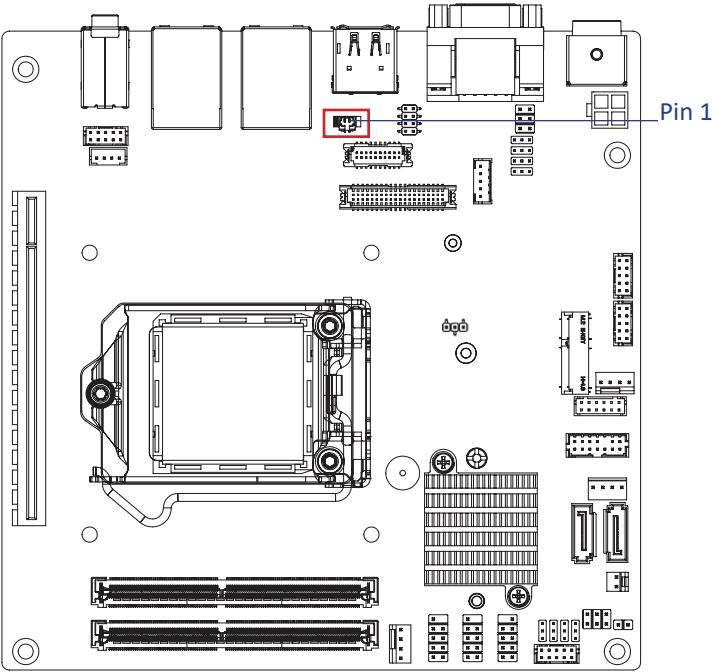


Pin No.	Definition
1	Speaker Out L+
2	Speaker Out L-
3	Speaker Out R-
4	Speaker Out R+

Connector PN	Vendor
721-81-045W00	PINREX
A2001WV-04P146	JOINT-TECH

2.2.3 BATTERY (Battery cable connector)

5



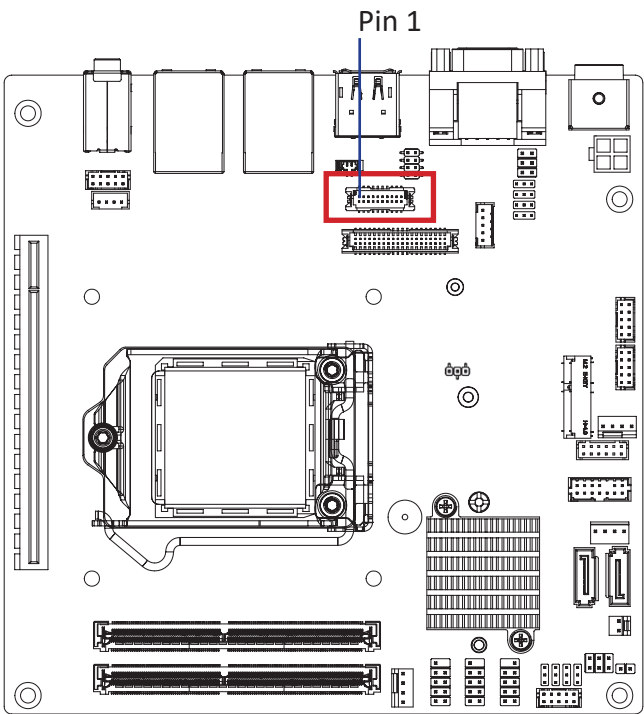
Battery Cable Connector	
2	1

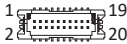
Connector PN	Vendor
85205-0270L	ACES
A1250WV-S-02PC	JOINT-TECH

Pin No.	Definition
1	3.3V
2	GND

2.2.4 EDP (Embedded Display Port Connector)

6



Embedded Display Port connector			
			

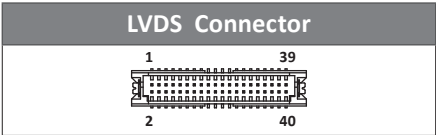
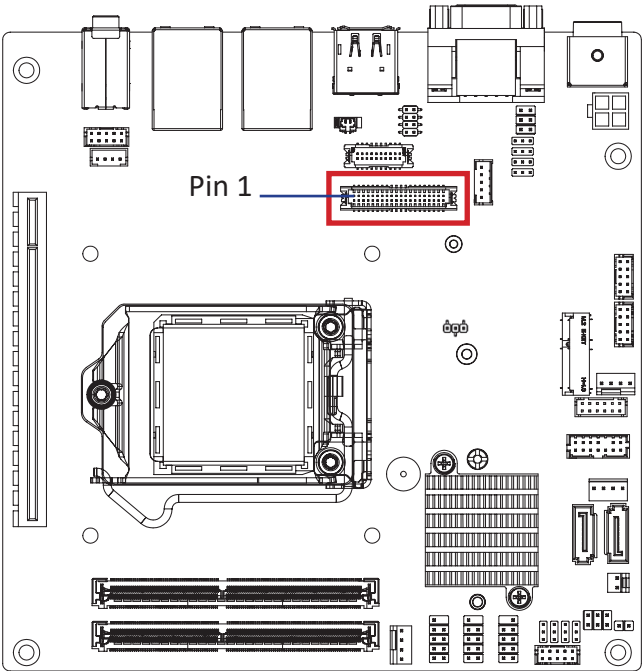
Pin No.	Definition	Pin No.	Definition
1	GND	11	eDP_1+
2	GND	12	eDPAUX-
3	eDP_0-	13	GND
4	eDP_3-	14	eDPAUX+
5	eDP_0+	15	eDP_2-
6	eDP_3+	16	GND
7	GND	17	eDP_2+
8	eDPSW *	18	HDP
9	eDP_1-	19	5V
10	GND	20	3.3V

Note: * Please ensure pin 8 is connected to Ground.

Connector PN	Vendor
A1252WV-SF-2X10PN6BG1G00L	JOINT-TECH
50286-02071-001	ACES

2.2.5 LVDS (LVDS connector)

7



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-

Pin No.	Definition	Pin No.	Definition
16	A2+	36	CLK1-
17	A3-	37	GND
18	A2-	38	GND
19	GND	39	12V
20	GND	40	12V

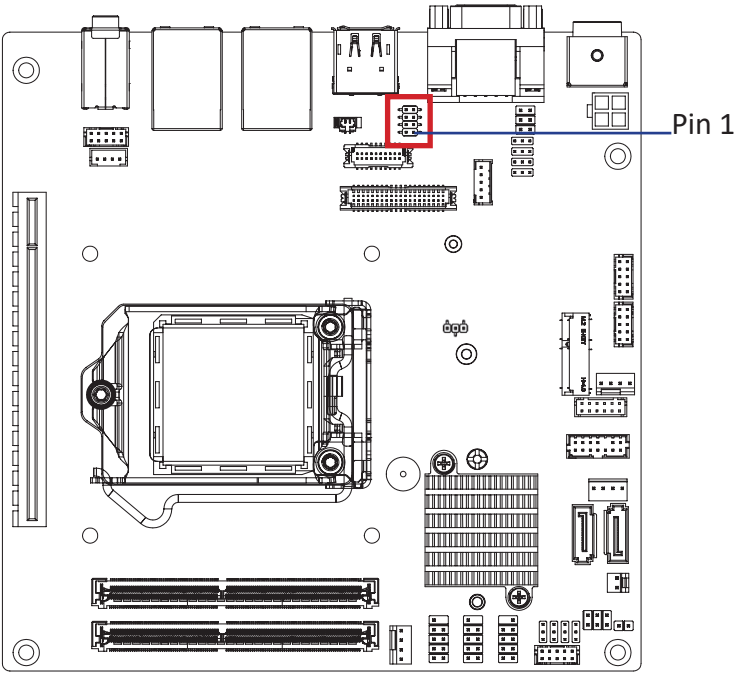
Connector PN	Vendor
712-76-40GWE0	PINREX
A1252WV-SF-2X20PD01	JOINT-TECH

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.

2.2.6 LSW (LVDS resolution jumper)

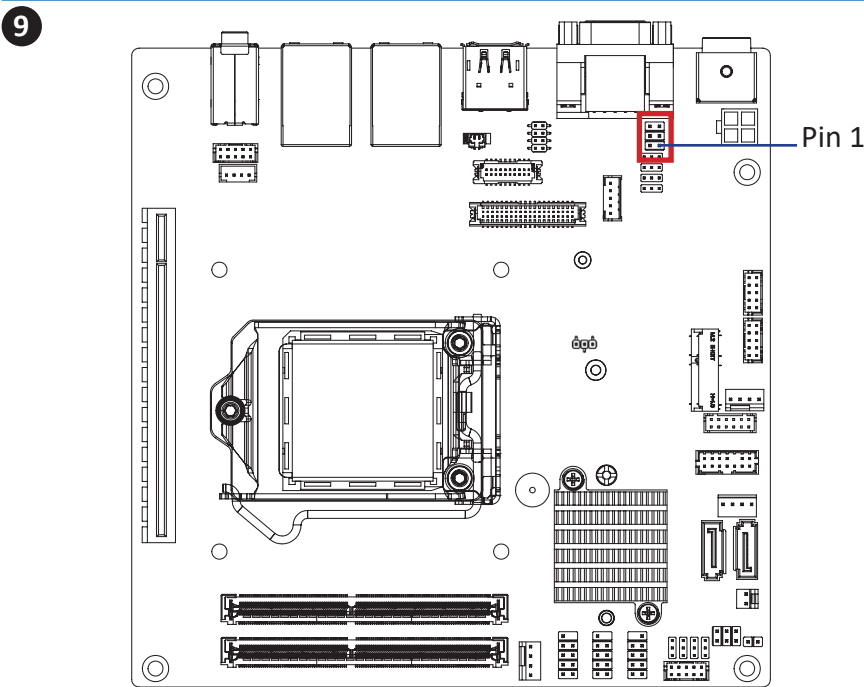
8



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
	1366 x 768 18bit		1920 x 1200 24bit

Connector PN	Vendor
222-97-04GBE1	PINREX

2.2.7 JCOM11 (RI pin RI/5V/12V Select jumper for COM1 port)

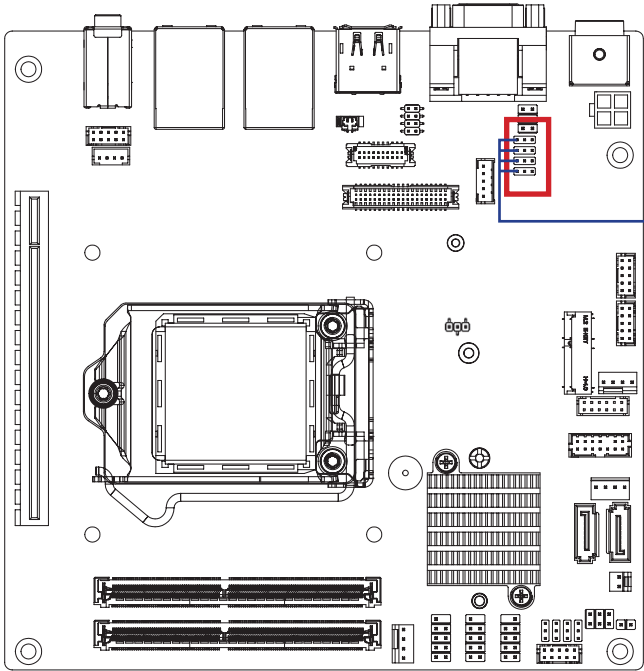


JCOM11 Jumper	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM)(Default)
	5-6 Close: 12V (Power COM)

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

2.2.8 JRS11-14 (RS-232/422/485 select jumper for COM1 port)

10



Pin 1

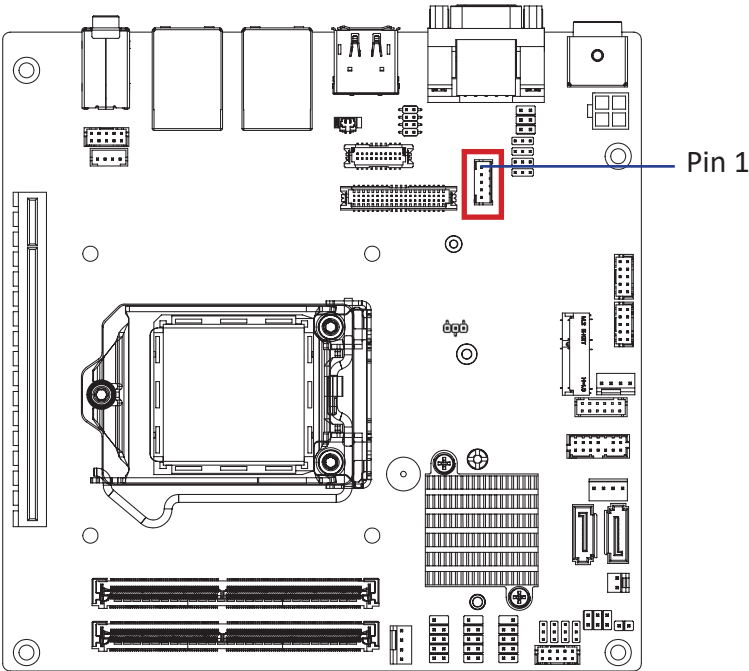
JRS11-14 Jumper
123 JRS13 JRS14 JRS12 JRS11
RS-232 (Dafult-setting)

Connector PN	Vendor
220-96-03GB01	PINREX
PH03N2-7BAN000	HORNGTONG

Mode	RS-422 Full Duplex	Pure RS-232	RS-485 Half Duplex	RS-485 Half Duplex	RS-422 Full Duplex	RS-485 Half Duplex
Status	1T/1R RS-422	3T/5R RS-232 (Default)	1T/1R RS-485, TX ENABLE Low Active	1T/1R RS-485, TX ENABLE High Active	1T/1R RS-422 with termination resistor and bias resistor.	1T/1R RS-485 with termination resistor and bias resistor. TX ENABLE Low Active
Jumper Setting	1 3 JRS13 JRS14 JRS12 JRS11	1 3 JRS13 JRS14 JRS12 JRS11	1 3 JRS13 JRS14 JRS12 JRS11	1 3 JRS13 JRS14 JRS12 JRS11	1 3 JRS13 JRS14 JRS12 JRS11	1 3 JRS13 JRS14 JRS12 JRS11

2.2.9 BKL_CN (Backlight Control connector)

11



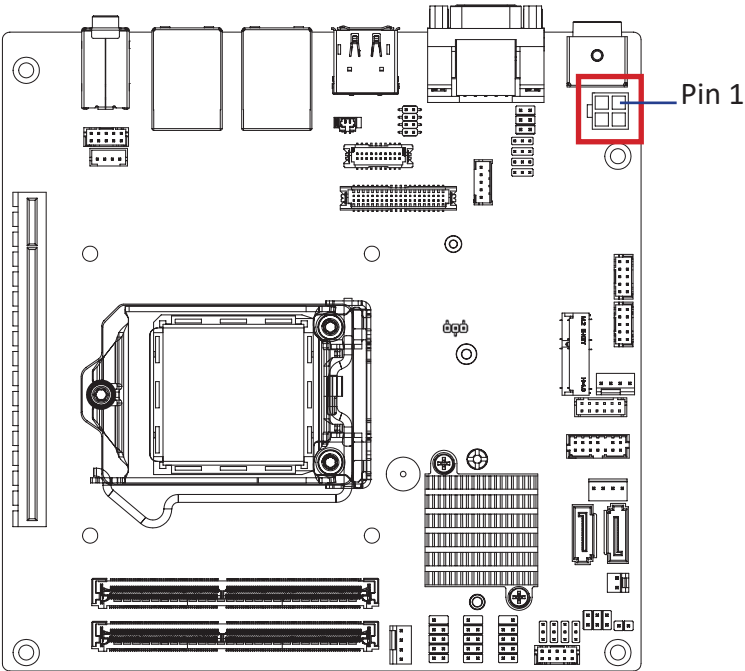
Backlight Control connector


Connector PN	Vendor
85205-0270L	ACES
A1250WV-S-02PC	JOINT-TECH

Pin No.	Definition
1	5V
2	PWM
3	Back Light Enable
4	GND
5	12V

2.2.10 DC_IN2 (ATX 2x2 pin power connector)

12



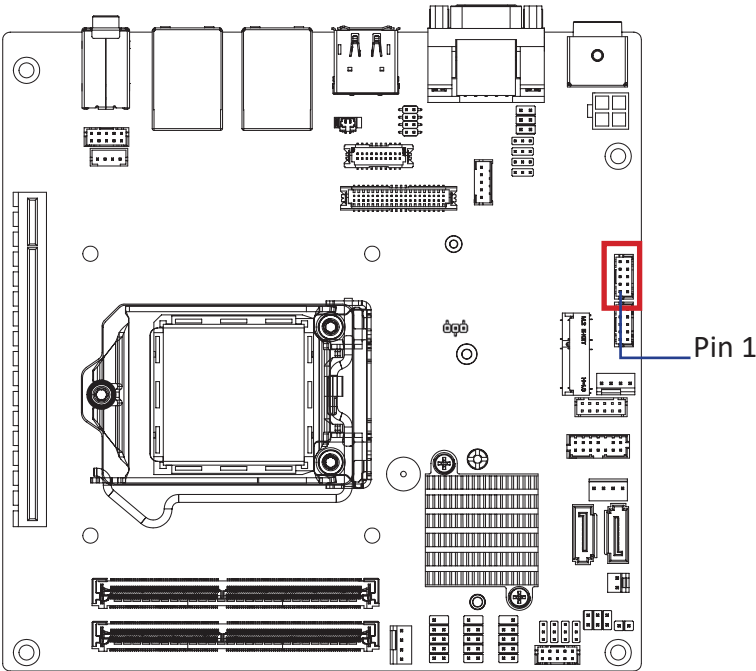
Power Connector	

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

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

2.2.11 COM4 (Serial Port header (RS-232))

13



Serial Port Cable Connector

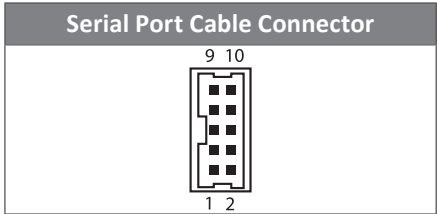
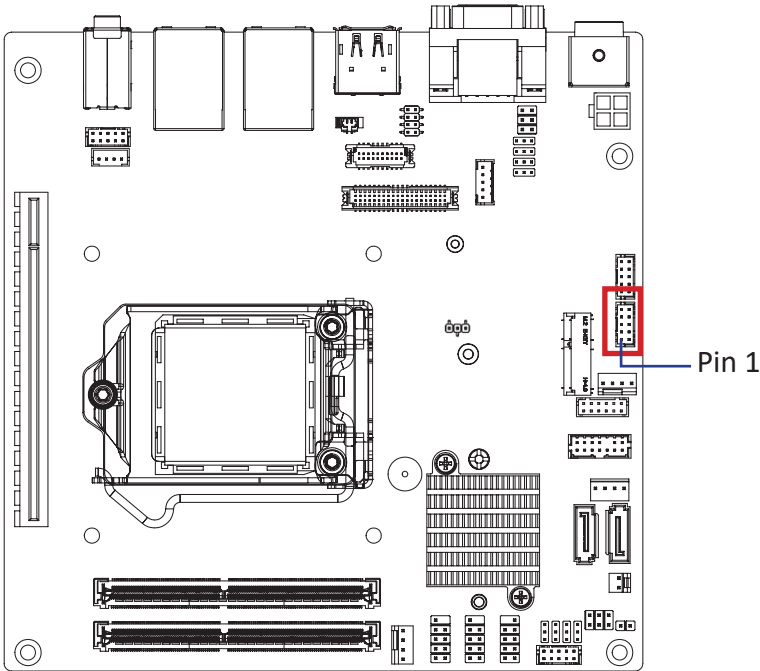


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

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

2.2.12 COM3 (Serial Port header (RS-232))

14

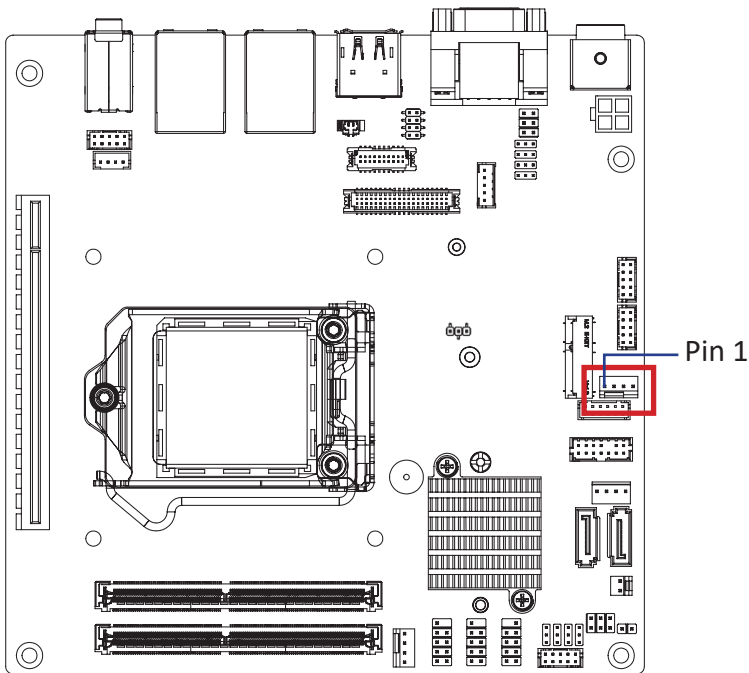


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

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

2.2.13 SYS_FAN (System Fan Connector)

16



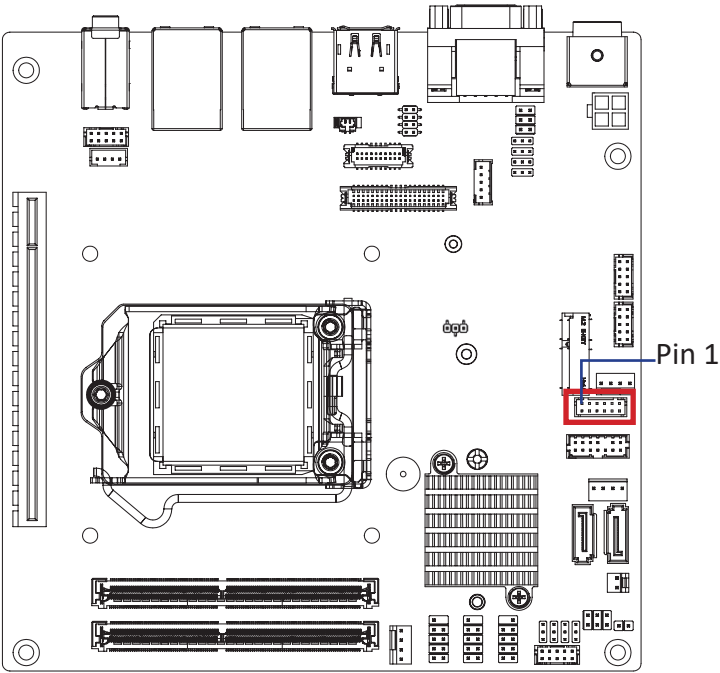
System FAN	
1	4

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

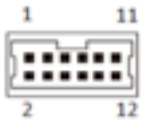
Pin No.	Definition
1	GND
2	12V
3	Detect
4	Speed Control

2.2.14 GPIO_CNT (General Purpose input/output header)

17



GPIO Connector



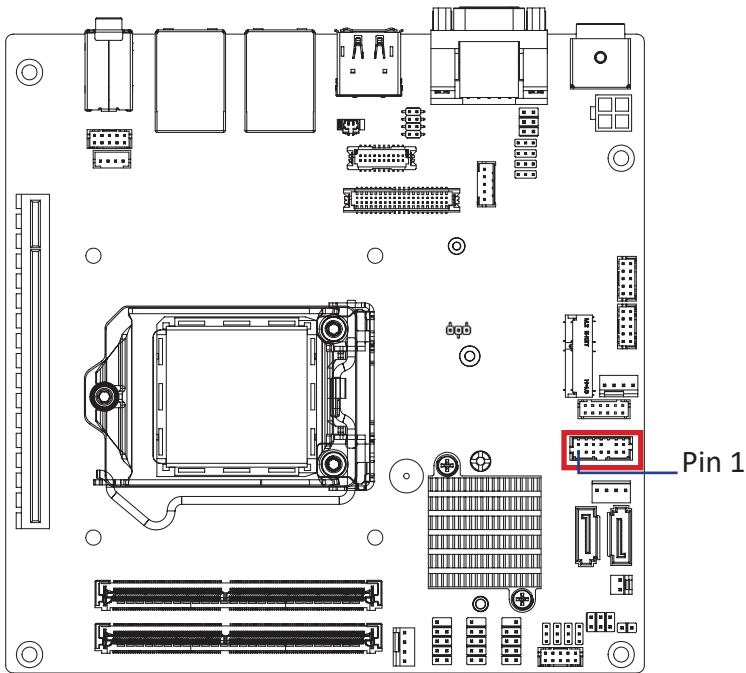
Pin No.	Definition
1	GPO1
2	GPI1
3	GPO2
4	GPI2
5	GPO3
6	GPI3
7	GPO4
8	GPI4

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

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

2.2.15 TPM (Trusted Platform Module Connector)

18



TPM Module Connector	
2	14
1	13

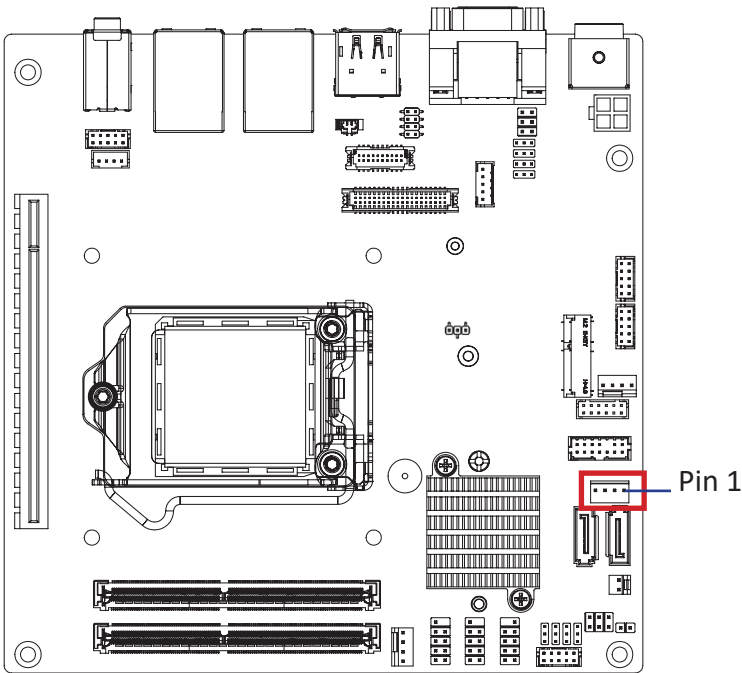
Pin No.	Definition
1	Clock
2	3.3V
3	PFM Reset
4	3.3V
5	LAD0
6	IRQ_SERIAL
7	LAD1

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

Connector PN	Vendor
52M-90-14GBE7	PINREX

2.2.16 SATA_PWR1 (SATA 6Gb/s Power Connector)

19



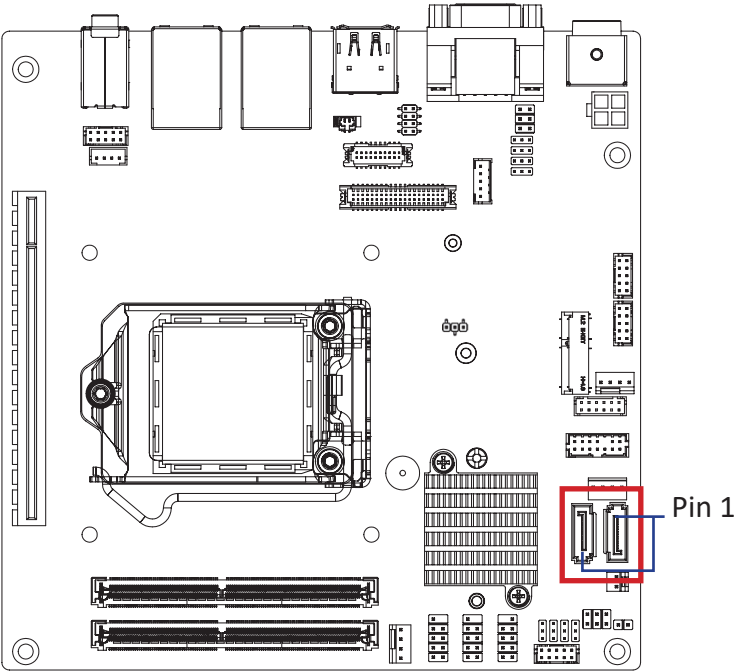
Hard Disk Power Connector	
4	1

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

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

2.2.17 SATA1, SATA2 (SATA 6Gb/s Connector)

2021



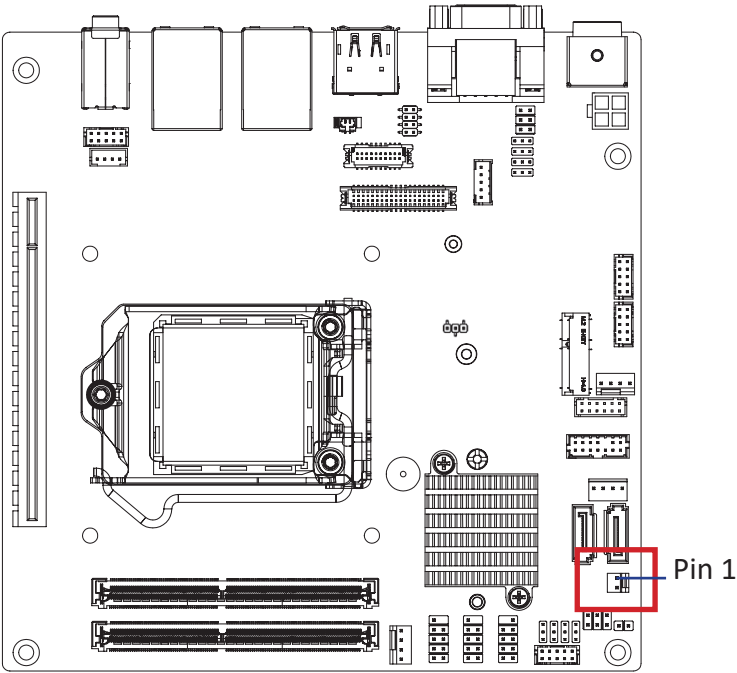
SATA Connector			
SATA 0		SATA 1	

Pin No.	Definition	Pin No.	Definition
1	GND	2	A+
3	A-	4	GND
5	B-	6	B+
7	GND		

SATAIII_1, SATAIII_0	
Connector PN	Vendor
WATM-07ABNB2BAUW3	WINWIN
770-83-07SW19	PINREX

2.2.18 ATX_CTL (ATX Control header)

22



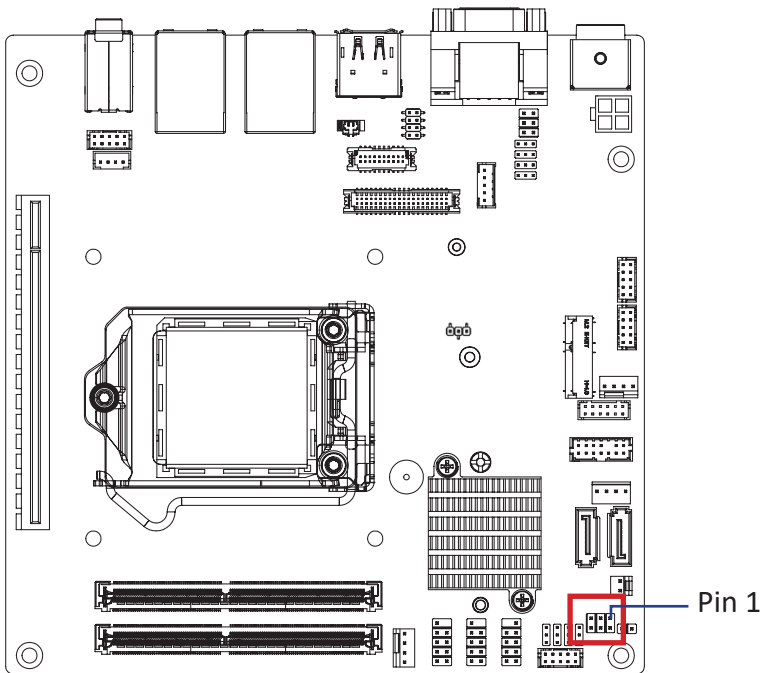
ATX Control header



Pin No.	Definition
1	ATX_PSON
2	ATX_5VSB

2.2.19 JCOM16 (RI pin RI/5V/12V select jumper for COM2 port)

23

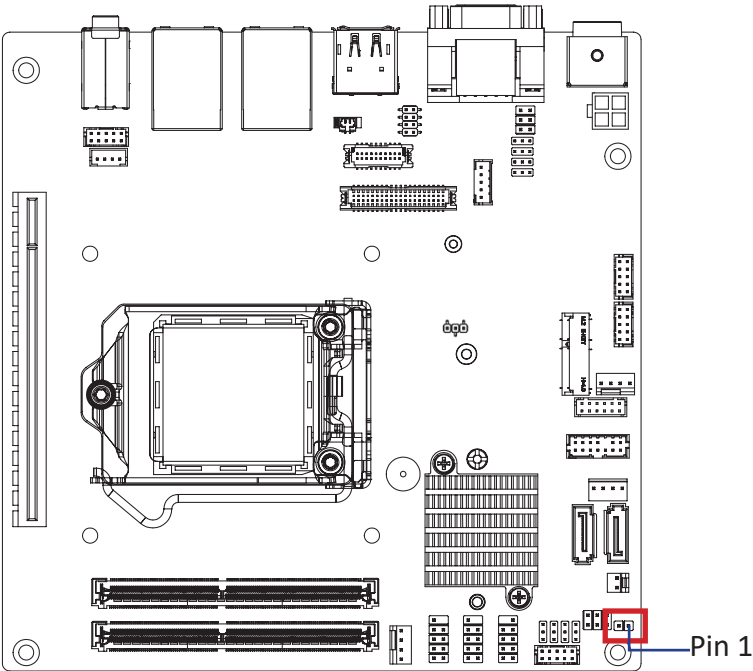


JCOM16 Jumper	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM)(Default)
	5-6 Close: 12V (Power COM)

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

2.2.20 CLR_CMOS (Clear CMOS Jumper)

24



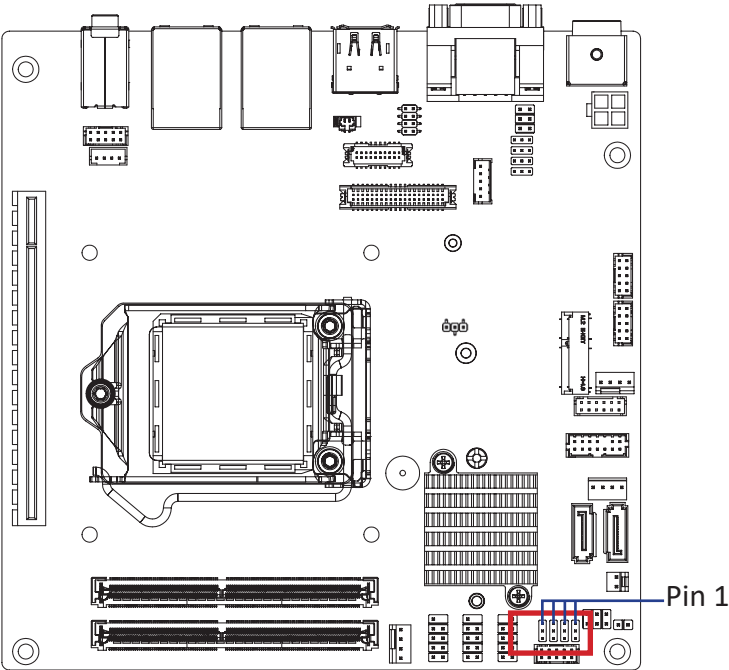
Clear COMS Jumper
2  1

Connector PN	Vendor
210-91-02GB01	PINREX
PH02R23BAZ000	HORNGTONG

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

2.2.21 JRS21-24 (RS-232/422/485 select jumper for COM2 port)

25



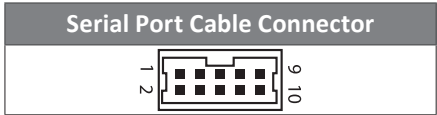
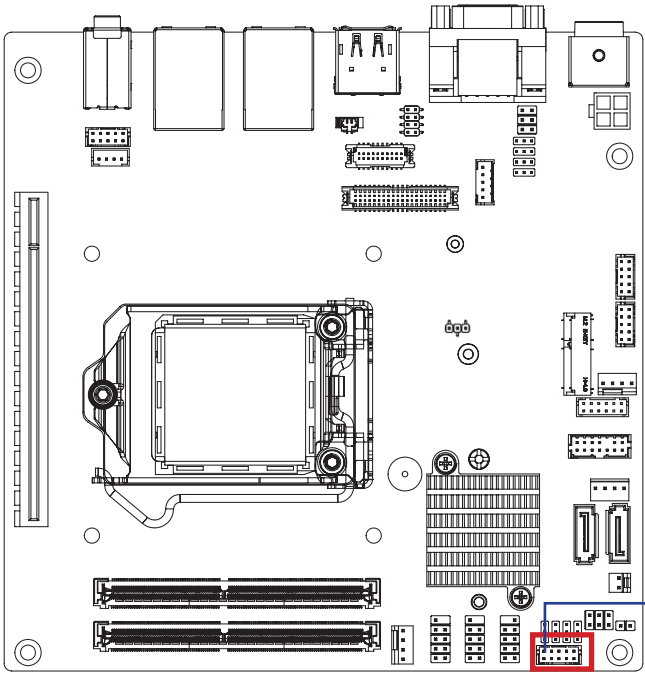
JRS21-24 Jumper
123 JRS21 JRS23 JRS24 JRS22
RS-232 (Dafult-setting)

Connector PN	Vendor
220-96-03GB01	PINREX
PH03N2-7BAN000	HORNGTONG

Mode	RS-422 Full Duplex	Pure RS-232	RS-485 Half Duplex	RS-485 Half Duplex	RS-422 Full Duplex	RS-485 Half Duplex
Status	1T/1R RS-422	3T/5R RS-232 (Default)	1T/1R RS-485, TX ENABLE Low Active	1T/1R RS-485, TX ENABLE High Active	1T/1R RS-422 with termination resistor and bias resistor.	1T/1R RS-485 with termination resistor and bias resistor. TX ENABLE Low Active
Jumper Setting	1 3 JRS21 JRS23 JRS24 JRS22	1 3 JRS21 JRS23 JRS24 JRS22	1 3 JRS21 JRS23 JRS24 JRS22	1 3 JRS21 JRS23 JRS24 JRS22	1 3 JRS21 JRS23 JRS24 JRS22	1 3 JRS21 JRS23 JRS24 JRS22

2.2.22 COM2 (Serial Port header (RS-232/422/485 & RI/5V/12V))

26

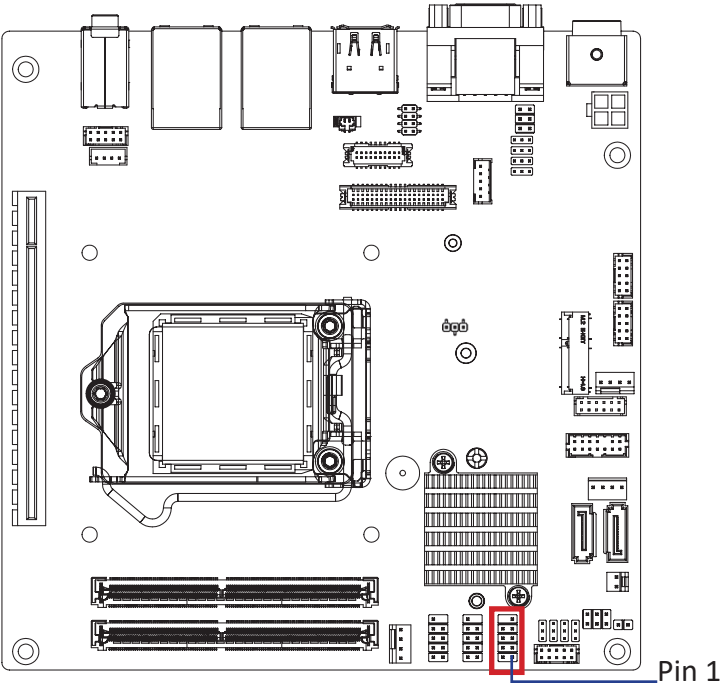


Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

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/5V/12V	-	-

2.2.23 SYS_PANEL (Front Panel header)

27



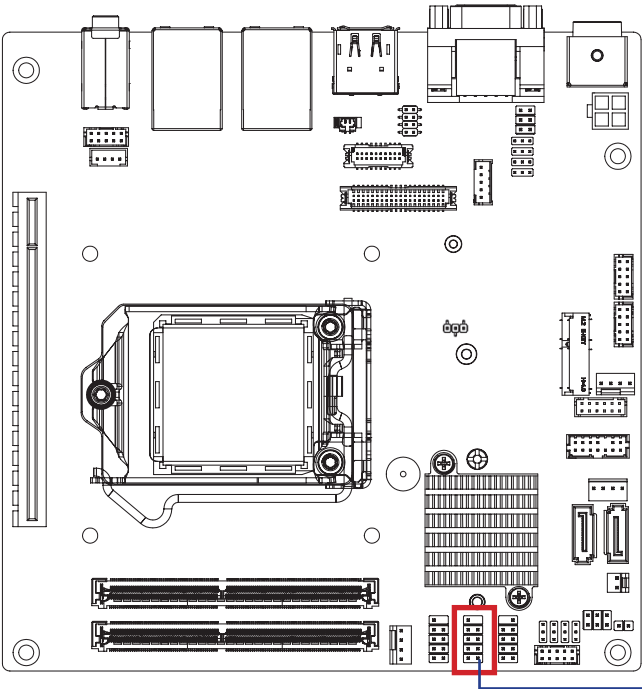
System Panel Header	
10	9
8	7
6	5
4	3
2	1

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

Connector PN	Vendor
210-92-05G111	PINREX

2.2.24 FUSB2_1 (USB 2.0 header)

28



Pin 1

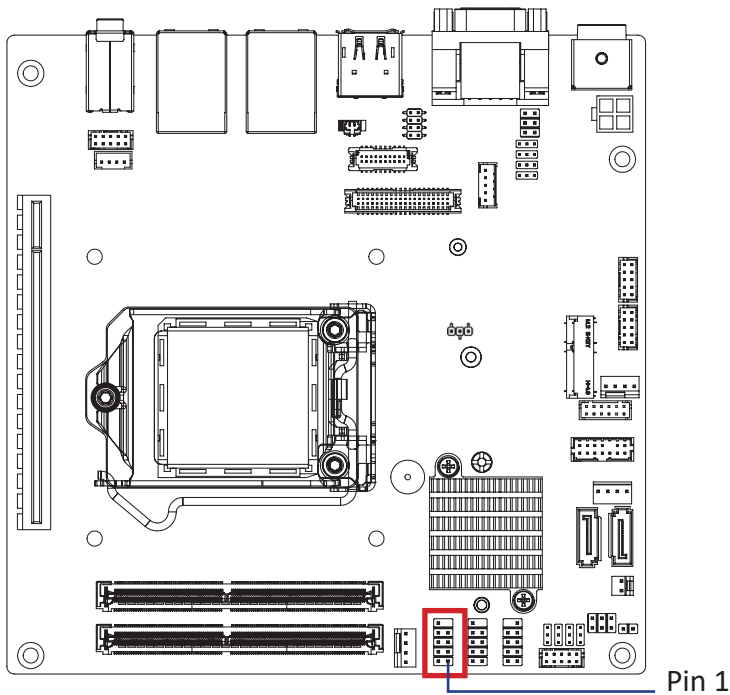
USB 2.0 Header	
	

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

2.2.25 FUSB2_2 (USB 2.0 header)

29



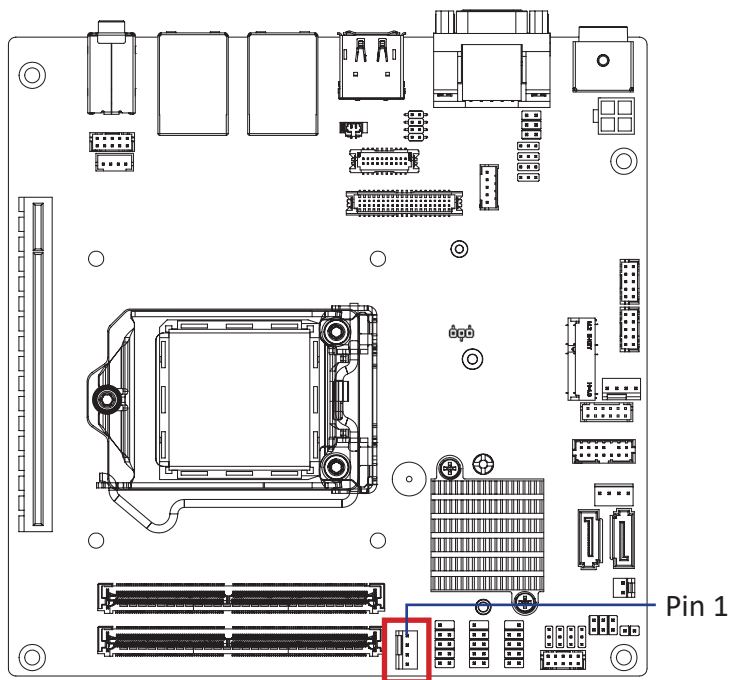
USB 2.0 Header	
109 21	

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

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

2.2.26 CPU_FAN (CPU fan connector)

30



CPU FAN Connector



Connector PN

744-81-045W11
WF04R22WJQ195

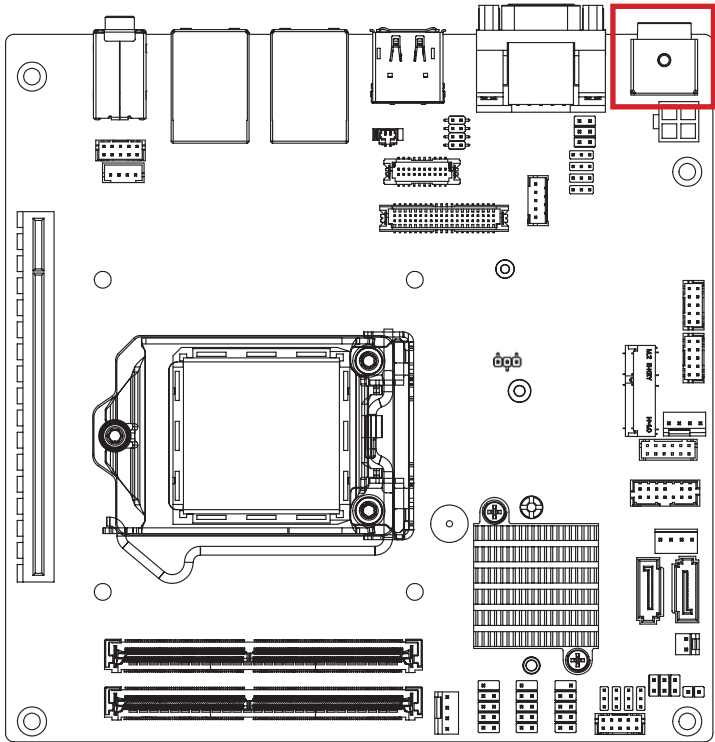
Vendor

PINREX
HORNGTONG

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

2.2.27 DC_IN1 (DC In JACK Connector)

33



DC JACK Connector



Connector PN

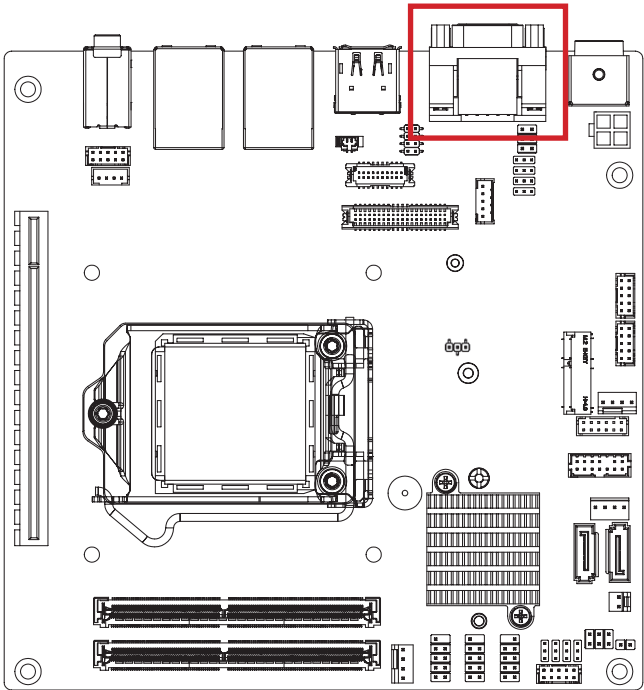
2MJ-3422A110

Vendor

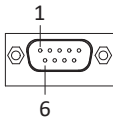
SINGATRON

2.2.28 COM1 (Serial port (RS-232/422/485 & RI/5V/12V))

34



Serial Port Connector



Connector PN

DM10151-N5W3-4F

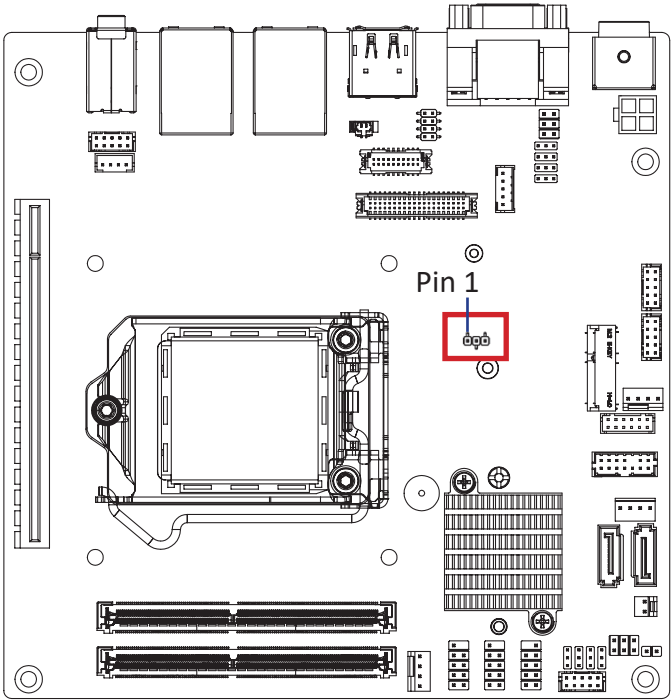
Vendor

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	-	-

2.2.29 AT_CN (AT/ATX mode select jumper)

33



AT/ATX mode select jumper	
1	3
	

Connector PN	Vendor
222-96-03GBE1	PINREX

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)	