

iTXL-3350A (MZAPLBI)

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
iTXL-3350A MB	1
SATA power cable	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	○	○	○	○	○	○

○: 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	○	○	○	○	○	○
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>						

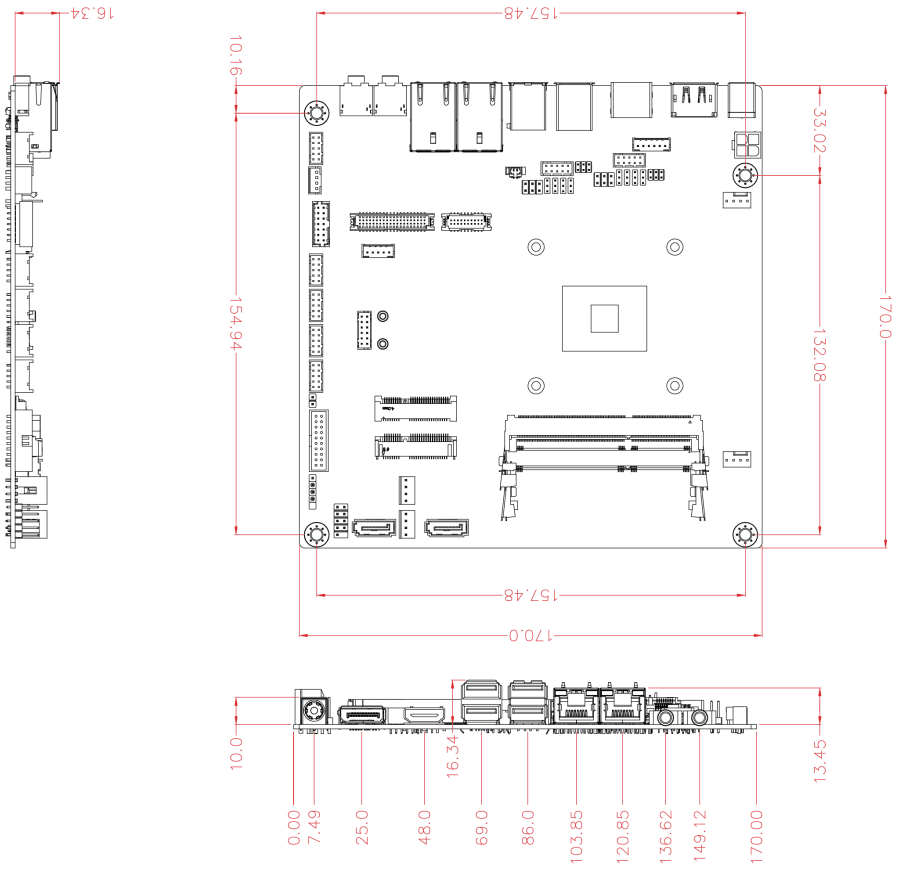
Table Contents

Thin Mini-ITX Motherboard	1
User's Manual 1st Ed	1
Copyright Notice	2
Acknowledgement	3
Packing List.....	4
About this Document	5
Safety Precautions	6
FCC Statement.....	8
China RoHS Requirements (CN).....	9
China RoHS Requirement (EN)	10
Chapter 1 - Product Specifications	13
1.1 Specifications	15
Chapter 2 – Hardware Information	17
2.1 Jumpers and Connectors	18
2.2.1 DC_IN1 (DC In Jack).....	21
2.2.2 DC_IN2 (ATX 2x2 pin power connector).....	22
2.2.3 SYS_FAN (System fan connector)	23
2.2.4 CPU_FAN (CPU fan connector)	24
2.2.5 F_AUDIO (Front audio header).....	25
2.2.6 SPK_OUT (Speaker out connector)	26
2.2.7 TPM_LPC (Trusted Platform Module connector)	27
2.2.8 LVDS (LVDS connector).....	28
2.2.9 BKL_CN (Back light brightness control connector).....	29

2.2.10	CLR_CMOS (Clear CMOS jumper)	30
2.2.11	LSW (LVDS resolution jumper)	31
2.2.12	GPIO_CNT (General Propose input/output header)	32
2.2.13	AT_CN (AT/ATX power mode select jumper)	33
2.2.14	COM3~6 (Serial port)	34
2.2.15	CASE_OPEN (Case open jumper)	35
2.2.16	FUSB30 (USB 3.0 header)	36
2.2.17	FUSB20 (USB 2.0 header)	37
2.2.18	SYS_PANEL (Front panel header)	38
2.2.19	SATAIII (SATA 6GB/S Connector)	39
2.2.20	SATAPW1~2 (SATA 6Gb/s power connector)	40
2.2.21	EDP (Embedded Display Port Connector)	41
2.2.22	KB_MS (Keyboard/Mouse connector)	42
2.2.23	COM1 (Serial port select)	43
2.2.24	COM2 (Serial port select)	44
2.2.25	JCOM12 (RS-232/RS-422/RS-485 select)	45
2.2.26	JCOM22 (RS-232/RS-422/RS-485 select)	46
2.2.27	JRS11, JRS12, JRS13, JRS14 (RS11, RS12, RS13, RS14 select jumper for serial port)	47
2.2.28	JRS21, JRS22, JRS23, JRS24 (RS21, RS22, RS23, RS24 select jumper for serial port)	48
2.2.29	JCOM11 (COM11 RI# pin RI#/5V/12V Select)	49
2.2.30	JCOM21 (COM21 RI# pin RI#/5V/12V Select)	50
2.2.31	Battery	51

Chapter 1

Chapter 1 - Product Specifications



1.1 Specifications

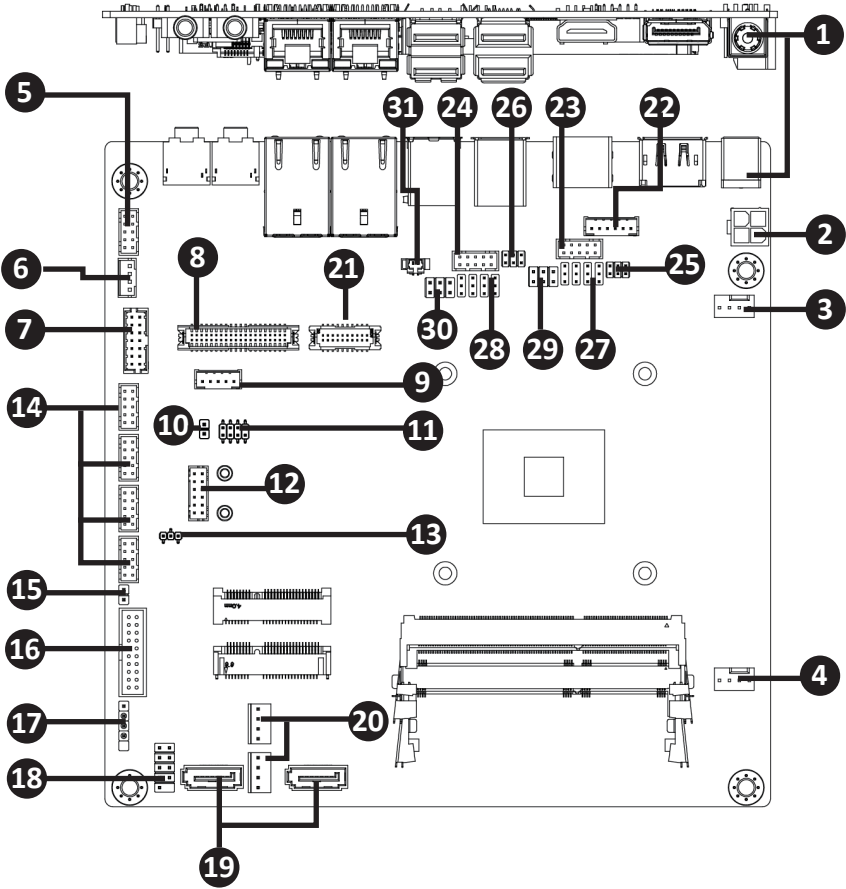
Motherboard	iTXL-3350A (MZAPLBI)
Form Factor	Thin Mini-ITX form factor 170W x 170D (mm)
CPU	Intel® Celeron® Processor N3350 14nm, 2 cores, 2 threads 1.10 - 2.40 GHz 2MB L2 cache TDP 6W 2 MB L2
Socket	1 x FCBGA1296
Chipset	—
Memory	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB Dual channel memory architecture Support DDR3L 1866MHz
Ethernet	2 x GbE LAN ports (Realtek® RTL8111HS)
Video	Intel® HD Graphics 500 1 x HDMI port, supporting a maximum resolution of 3840x2160 @ 30Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @ 60Hz 1 x LVDS port, supporting a maximum resolution of 1920 x 1080@60Hz 1 x eDP port, supporting a maximum resolution of 3840x2160 @ 60Hz x Support for HDMI 1.4 version
Audio	Realtek ALC269 High Definition Audio
Storage	2 x SATA 6Gb/s ports (1 x switch with mSATA)
Raid	—
Expansion Slots	1 x Mini PCIe (Half Size – PCIe Only) 1 x Mini PCIe (Full Size)(PCIe /mSATA)

Motherboard	iTXL-3350A (MZAPLBI)
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA 6Gb/s connectors 1 x USB 2.0 header 2 x USB 3.0 headers 1 x Front panel header 1 x Front panel audio header 1 x Speaker out header 1 x LVDS connector 1 x Back Light Switch 1 x System fan header 1 x CPU fan header 4 x COM Headers (RS-232) 2 x COM headers (RS-232/422/485 and RI/5V/12V) 2 x SATA Power 1 x eDP 1 x Keyboard/Mouse header 1 x GPIO (4 in/ 4 out)
Rear I/O	2 x Audio jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 2 x USB2.0 2 x USB3.0 1 x DC Jack (+12Vdc)
TPM	1 x TPM Header
OS Compatibility	Windows 10 (x64)
PSU Connectors	1 x DC-in +12Vdc 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: -20°C to 70°C Non-operating humidity: 0%-95% (non-condensing)
Packing Content	BOX Packing Capacity: 10pcs Carton size: 460 x 345 x 203 (mm) Content: IO Shield x 1 (12AIO-MKLPC0-00R) SATA Power cable x 1 (25CRI-200B02-K1R)
Order Information	Motherboard: 9MZAPLBIMR-SI
Optional kit:	TPM 1.2 module: 9CMUFLNR-00 TPM 2.0 module: 9CTM000NR-00

Chapter 2

Chapter 2 – Hardware Information

2.1 Jumpers and Connectors

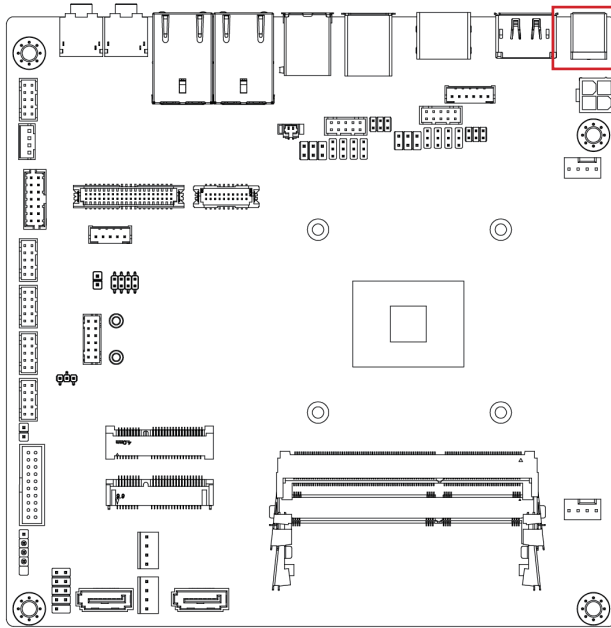


No	Code	Description
1	DC_IN1	DC In Jack
2	DC_IN2	ATX 2x2 pin power connector
3	SYS_FAN	System fan connector
4	CPU_FAN	CPU fan connector
5	F_AUDIO	Front audio header
6	SPK_OUT	Speaker out connector
7	TPM_LPC	Trusted Platform Module connector
8	LVDS	LVDS connector
9	BKL_CN	Back light brightness control connector
10	CLR_CMOS	Clear CMOS jumper
11	LSW	LVDS resolution jumper
12	GPIO_CNT	General Purpose input/output header
13	AT_CN	AT/ATX power mode select jumper
14	COM3~6	Serial port
15	CASE_OPEN	Case open jumper
16	FUSB30	USB 3.0 header
17	FUSB20	USB 2.0 header
18	SYS_PANEL	Front panel header
19	SATAIII_1~2	SATA 6Gb/s connector
20	SATAPW_1~2	SATA 6Gb/s power connector
21	EDP	Embedded Display Port connector
22	KB_MS	Keyboard and Mouse Connector
23	COM1	Serial port header
24	COM2	Serial port header

No	Code	Description
25	JCOM12	RS-232/RS-422/RS-485 select
26	JCOM22	RS-232/RS-422/RS-485 select
27	JRS11 JRS12 JRS13 JRS14	RS11, RS12, RS13, RS14 select jumper for serial port
28	JRS21 JRS22 JRS23 JRS24	RS21, RS22, RS23, RS24 select jumper for serial port
29	JCOM11	COM11 RI# pin RI#/5V/12V Select
30	JCOM21	COM21 RI# pin RI#/5V/12V Select
31	BATTERY	Battery cable connector

2.2.1 DC_IN1 (DC In Jack)

1



Power Connector



Connector PN

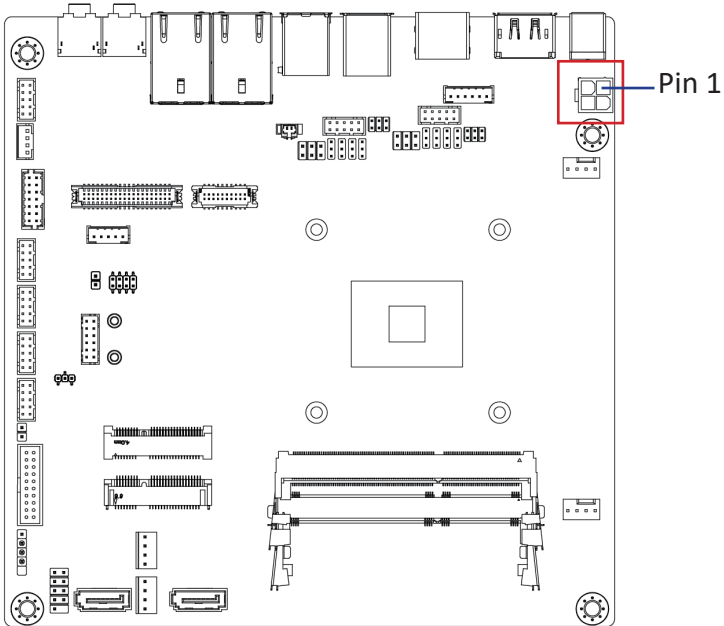
WTJ-020-88JSB

Vendor

KYOYAKU

2.2.2 DC_IN2 (ATX 2x2 pin power connector)

2



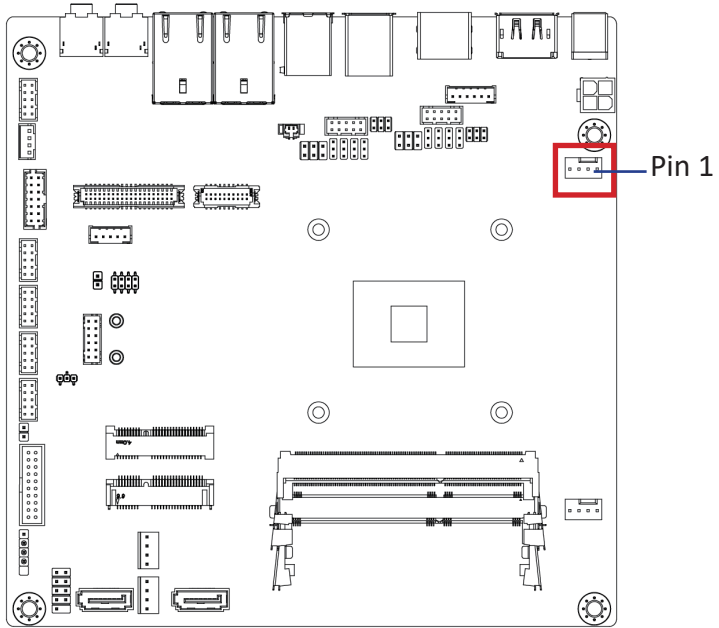
Power Connector	

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

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

2.2.3 SYS_FAN (System fan connector)

3



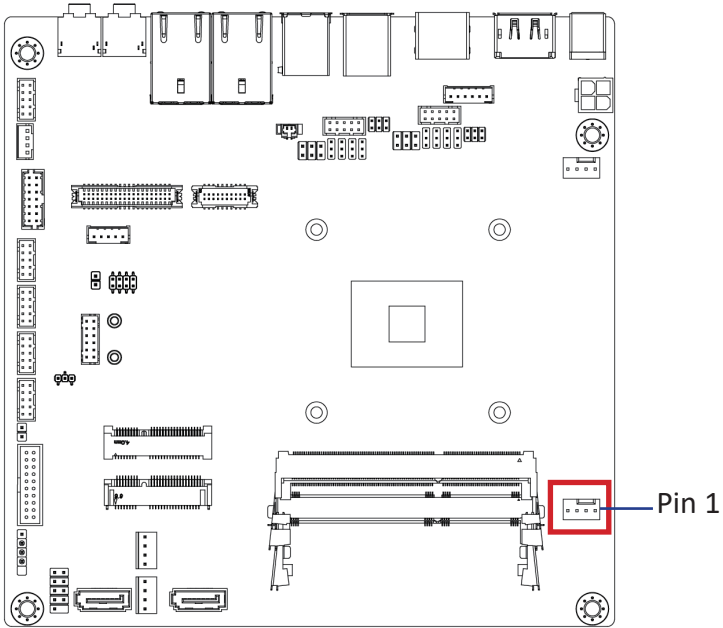
System FAN	
4	1

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

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

2.2.4 CPU_FAN (CPU fan connector)

4



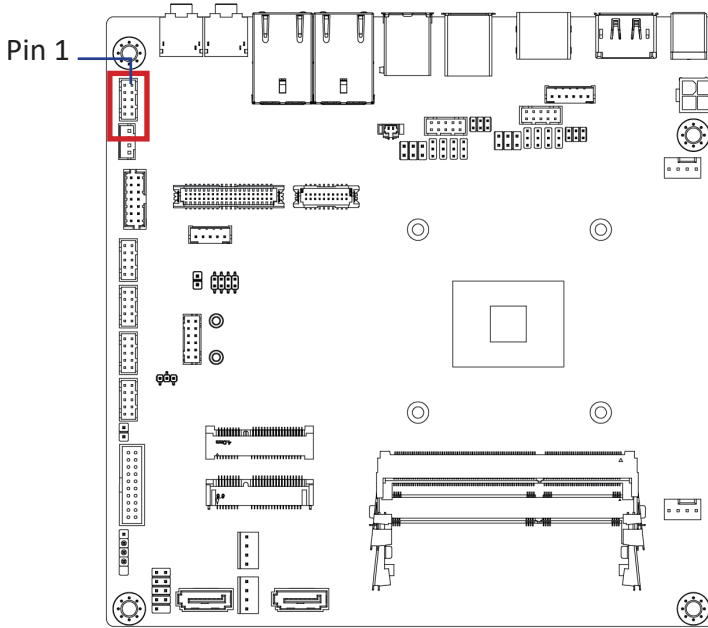
System FAN	
4	1

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

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

2.2.5 F_AUDIO (Front audio header)

5



Front Audio Connector



Connector PN

725-81-10TW00

Vendor

PINREX

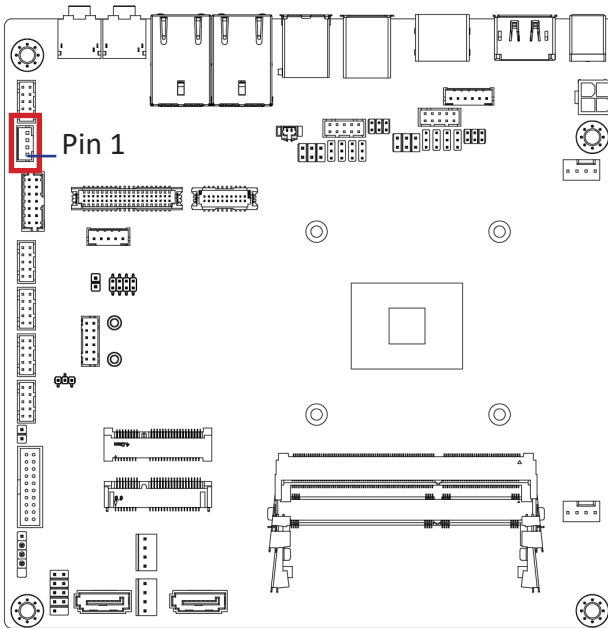
A2004WV-2X05P46

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	HPOUT_L
5	HPOUT_R	10	GND

2.2.6 SPK_OUT (Speaker out connector)

6



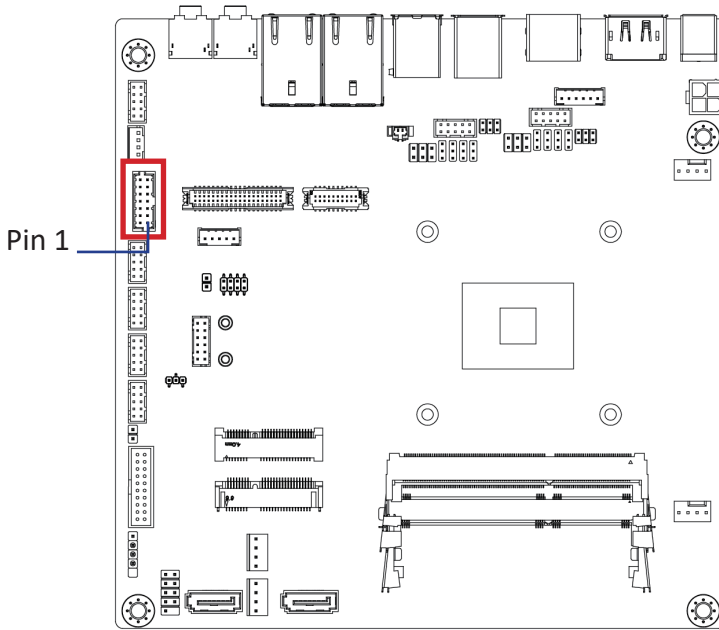
Audio Amplifie Connector	

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

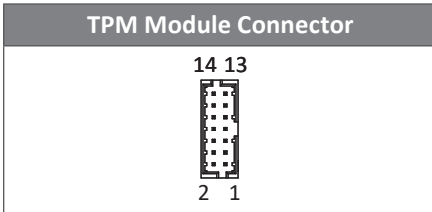
Pin No.	Definition
1	Speaker Out L+
2	Speaker Out L-
3	Speaker Out R-
4	Speaker Out R+

2.2.7 TPM_LPC (Trusted Platform Module connector)

7



TPM Module Connector



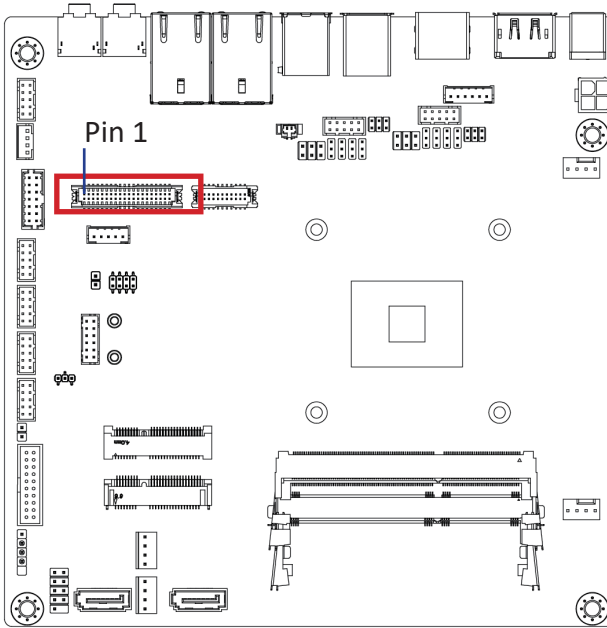
Pin No.	Definition
1	LPCCLK
2	3VDUAL
3	PFM RST
4	VCC3
5	LAD0
6	IRQ_SERIAL

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

2.2.8 LVDS (LVDS connector)

8



LVDS Connector



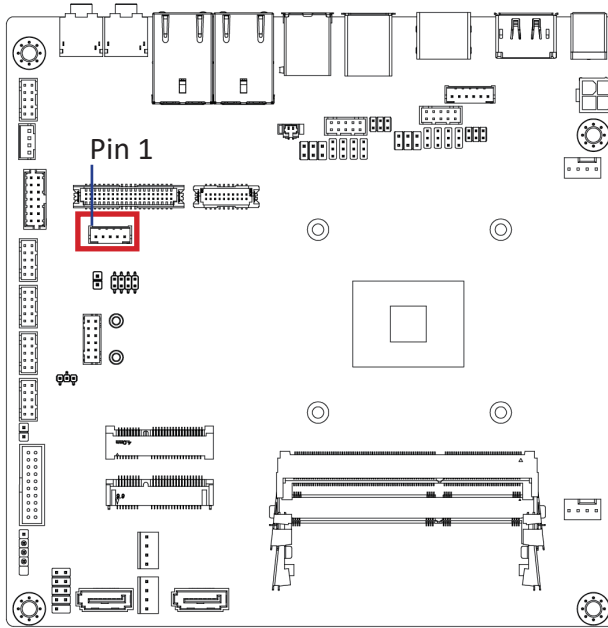
Pin No.	Definition	Pin No.	Definition
1	3.3V	21	A5+
2	5V	22	A4+
3	3.3V	23	A5-
4	5V	24	A4-
5	SPECO	25	GND
6	SPED0	26	GND
7	GND	27	A7+
8	GND	28	A6+
9	A1+	29	A7-
10	A0+	30	A6-
11	A1-	31	GND
12	A0-	32	GND
13	GND	33	CLK2+
14	GND	34	CLK1+
15	A3+	35	CLK2-
16	A2+	36	CLK1-


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

2.2.9 BKL_CN (Back light brightness control connector)

9



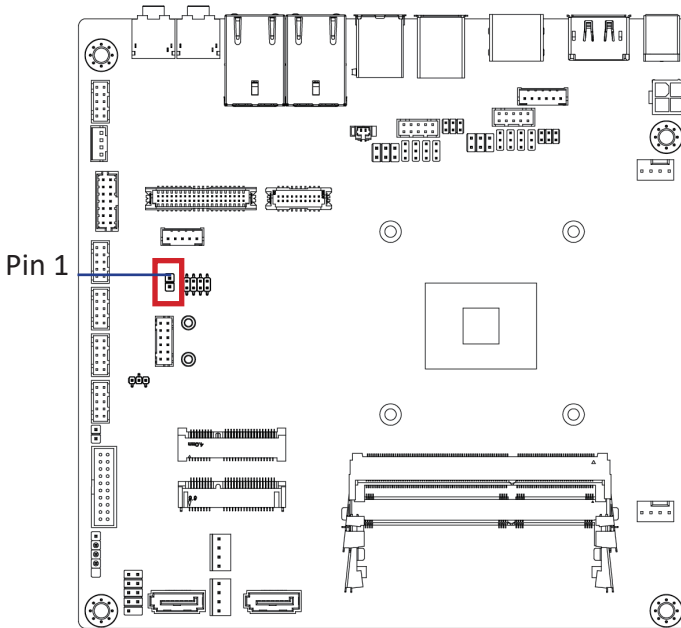
Back light brightness control connector
1  5



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 CLR_CMOS (Clear CMOS jumper)

10



Clear COMS Jumper	
1	
2	

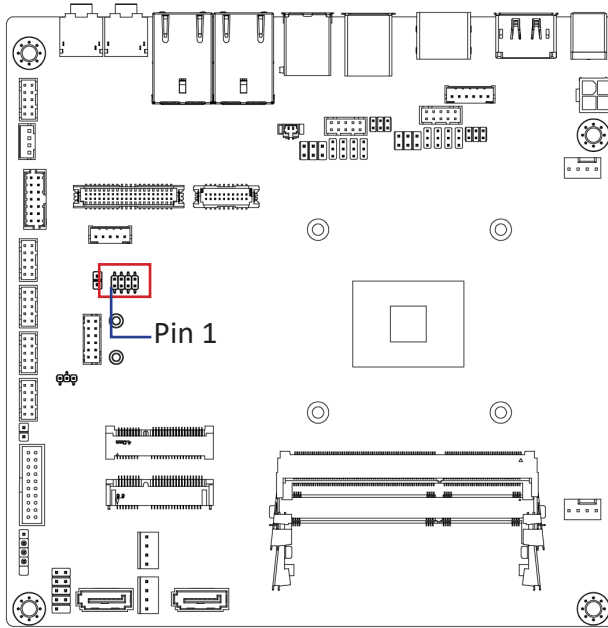
Pin No.	Definition
	Open: Normal Operation (Default setting)
	Close: Clear COMS data.

















Pin No.	Definition
1	Clear CMOS
2	GND

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

2.2.11 LSW (LVDS resolution jumper)

11

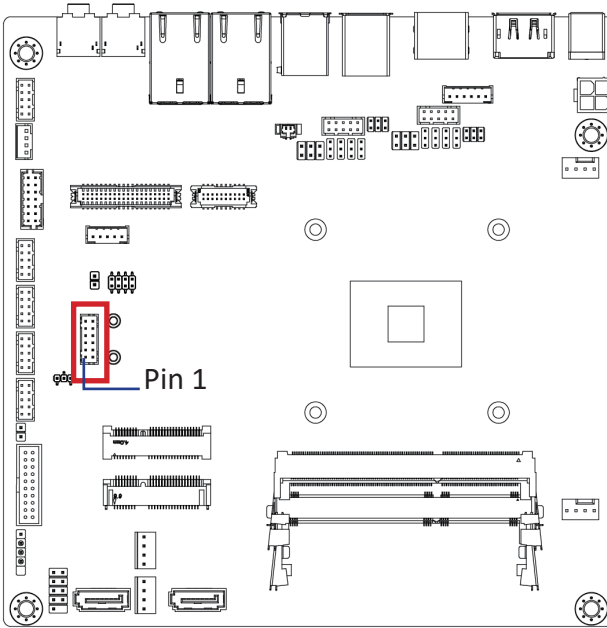


LVDS Resolution Jumper			
Jumper Setting	Resolution	Jumper Setting	Resolution
1 	800 x 600 18bit	1 	1366 x 768 24bit
1 	1024 x 768 18bit	1 	1440 x 900 24bit
1 	1024 x 768 24bit	1 	1400 x 1050 24bit
1 	1024 x 600 18bit	1 	1600 x 900 24bit
1 	1280 x 800 18bit	1 	1680 x 1050 24bit
1 	1024 x 600 18bit	1 	1600 x 1200 24bit
1 	1280 x 1024 24bit	1 	1920 x 1080 24bit
1 	1366 x 768 18bit	1 	1920 x 1200 24bit

Connector PN	Vendor
222-97-04GBE1	PINREX

2.2.12 GPIO_CNT (General Propose input/output header)

12



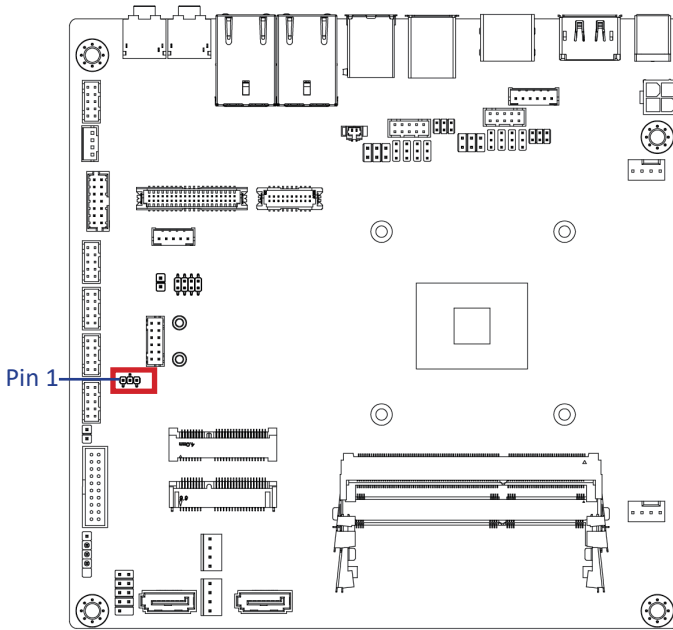
GPIO Connector	
Pin No.	Definition
1	GPO1
2	GPI1
3	GPO2
4	GPI2
5	GPO3
6	GPI3
7	GPO4
8	GPI4
9	SMB_CLK
10	SMB_DATA

Pin No.	Definition
11	5V
12	GND

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

2.2.13 AT_CN (AT/ATX power mode select jumper)

13



AT/ATX power mode select jumper



Connector PN

PH03N33BAAA00

Vendor

HORNGTONG

Pin No.

Definition

1

AT MODE

2

Detect

3

ATX MODE

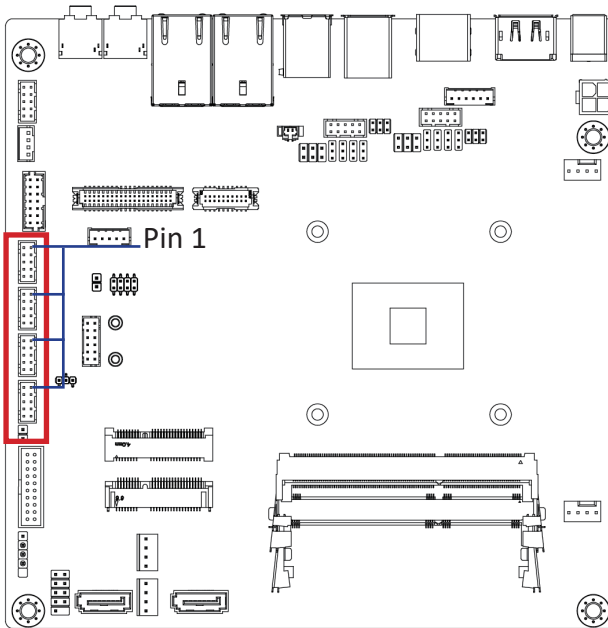
Jumper setting

1-2 Close : AT mode.

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

2.2.14 COM3~6 (Serial port)

14



Serial Port Cable Connector



Connector PN

725-81-10TW00
A2004WV-2X05P46

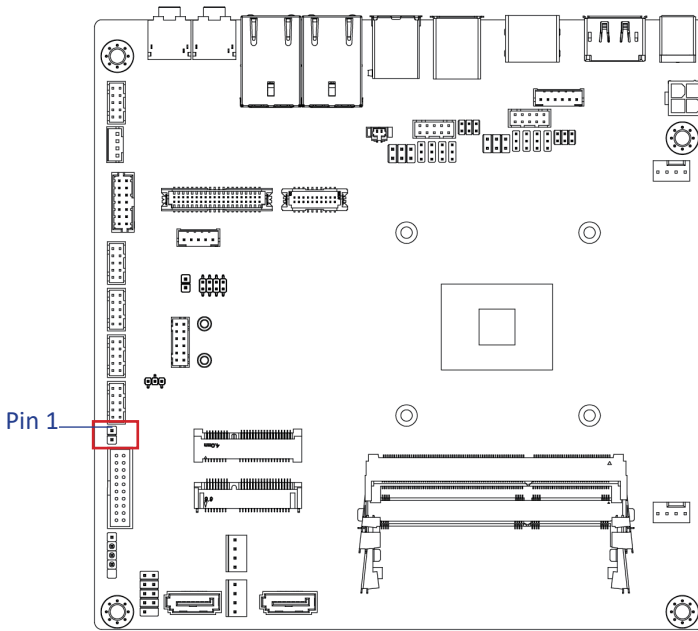
Vendor

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

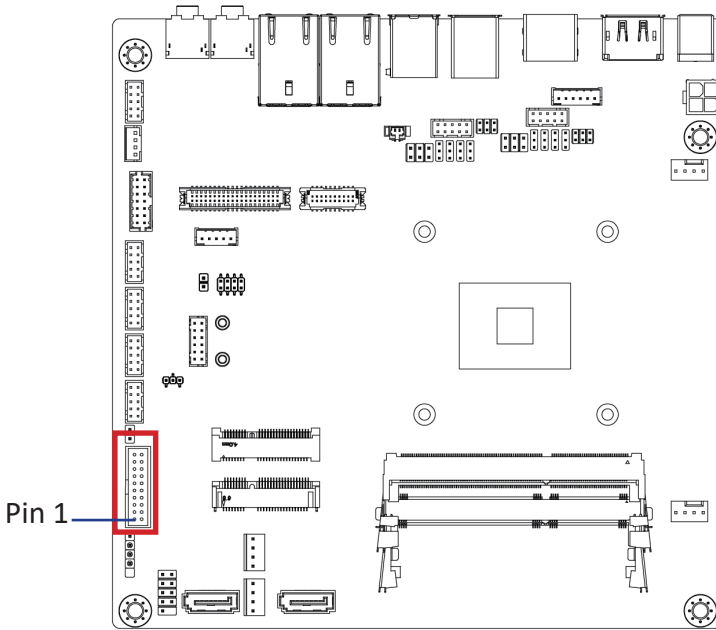
2.2.15 CASE_OPEN (Case open jumper)

15

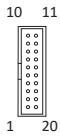


2.2.16 FUSB30 (USB 3.0 header)

16



USB 3.0 Header



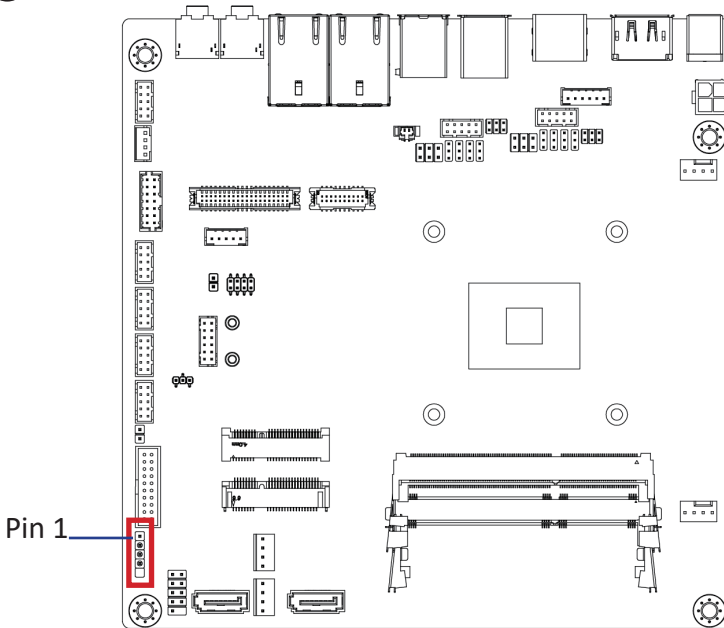
Pin No.	Definition
1	Power
2	P1_RX-
3	P1_RX+
4	GND
5	P1_TX-
6	P1_TX+
7	GND
8	P1_D-
9	P1_D+
10	OC

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

2.2.17 FUSB20 (USB 2.0 header)

17



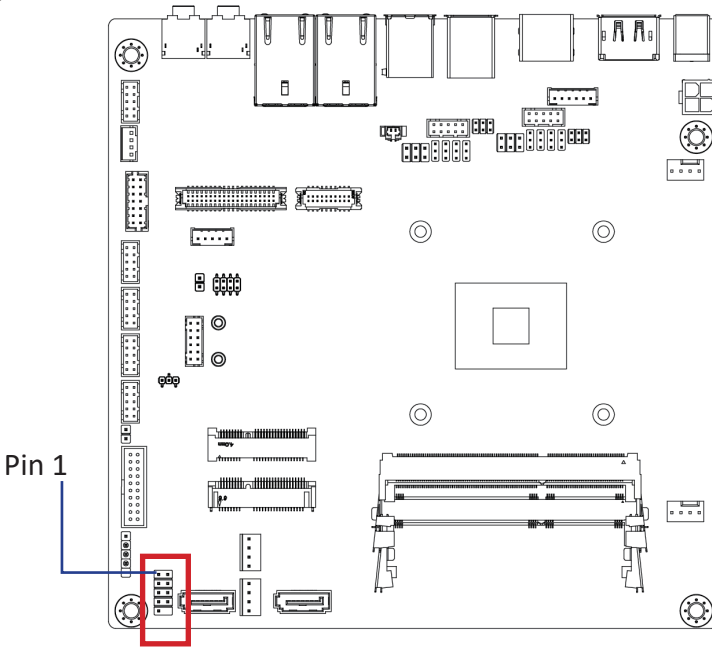
USB 2.0 Header	
1	□
2	□
3	□
4	□
5	□

Connector PN	Vendor
210-91-05GB02	PINREX
PH05R23BAZ005	HORNGTONG

Pin No.	Definition
1	VCC
2	D-
3	D+
4	GND
5	NC

2.2.18 SYS_PANEL (Front panel header)

18



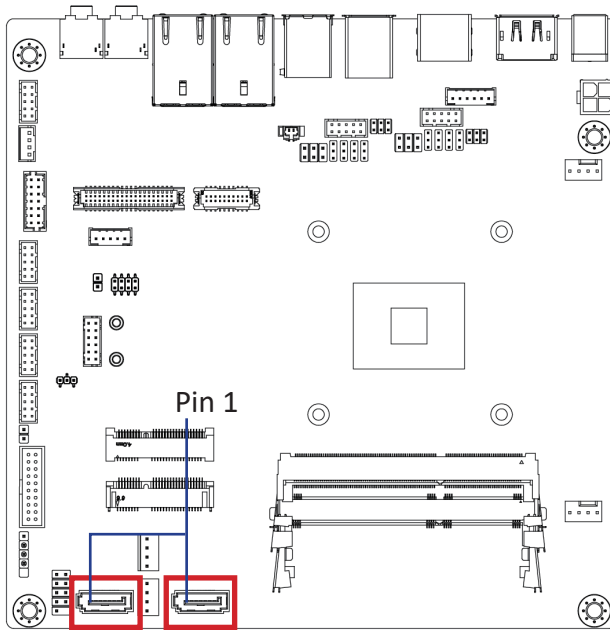
System Panel Header	

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

2.2.19 SATAIII (SATA 6GB/S Connector)

19



SATA 6GB/S Connector



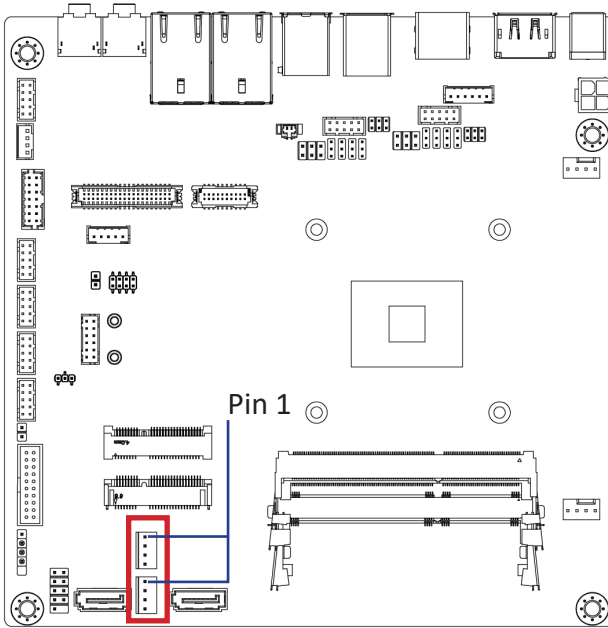
SATAIII

Connector PN	Vendor
WAT3M-07A1G3BU4W	WINWIN
ABA-SAT-054-S15	LOTES

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

2.2.20 SATAPW1~2 (SATA 6Gb/s power connector)

20



Hard Disk Power Connector



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

Connector PN

743-81-04TW00

WF04Q2-3BJQ000

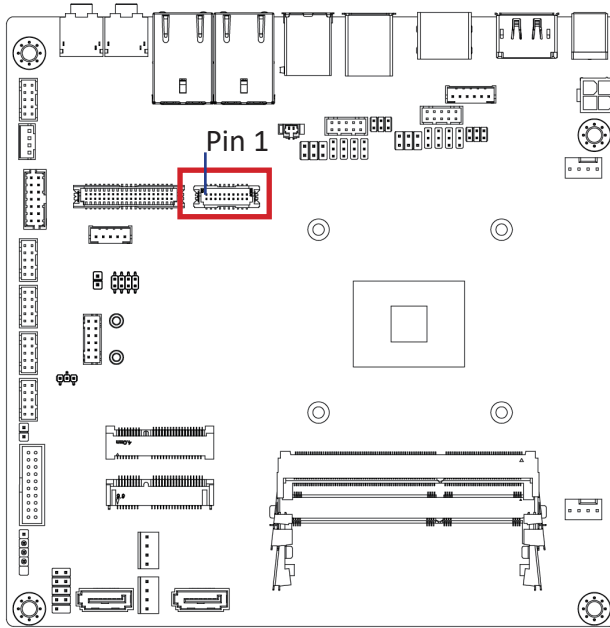
Vendor

PINREX

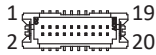
HORNGTONG

2.2.21 EDP (Embedded Display Port Connector)

21



Embedded Display Port connector



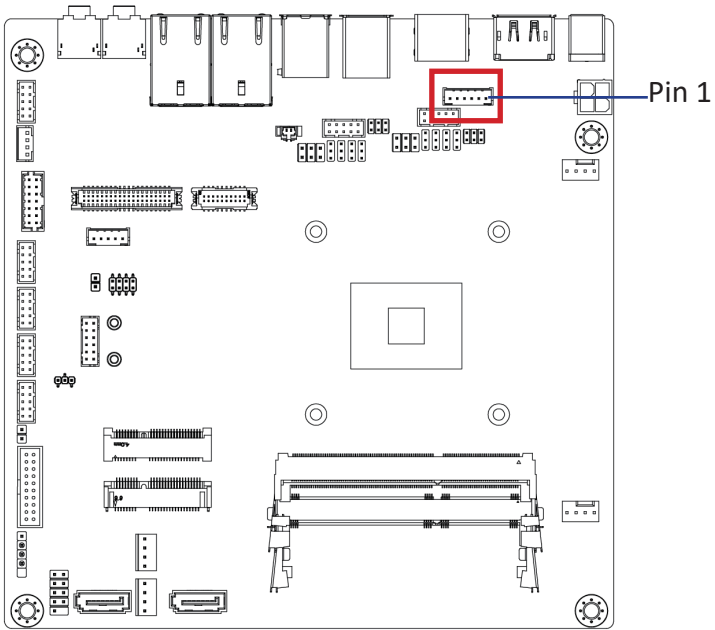
Pin No.	Definition	Pin No.	Definition
1	GND	11	eDP_1+
2	GND	12	eDPAUX-
3	eDP_0-	13	GND
4	eDP_3-	14	eDPAUX+
5	eDP_0+	15	eDP_2-
6	eDP_3+	16	GND
7	GND	17	eDP_2+
8	eDPSW	18	HDP
9	eDP_1-	19	5V
10	GND	20	3.3V

Note: Please ensure pin 8 is connected to Ground.

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

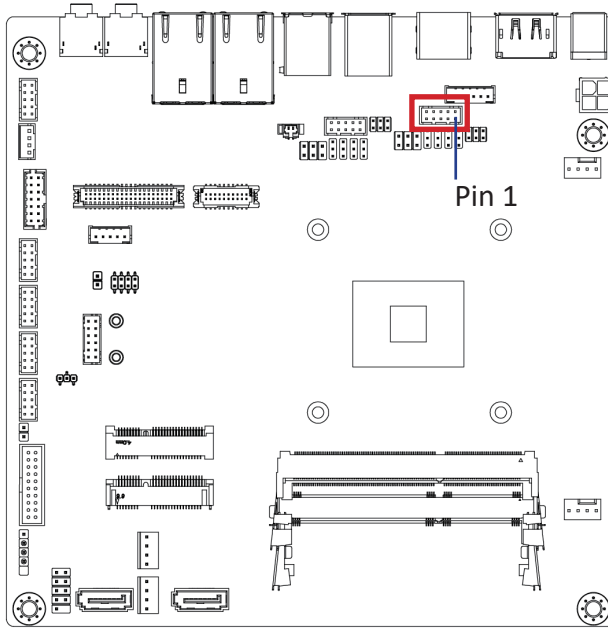
2.2.22 KB_MS (Keyboard/Mouse connector)

22



2.2.23 COM1 (Serial port select)

23



Serial Port Cable Connector



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

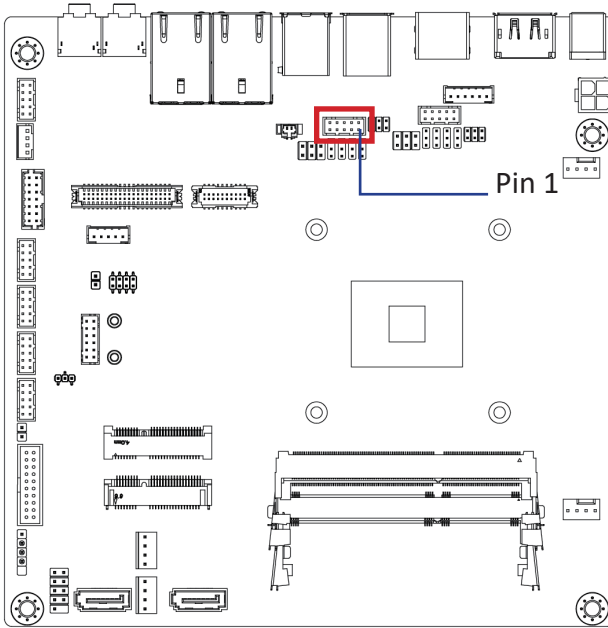
Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

RS-422/RS-485's signal table

Pin No.	Signal Name		
	RS232	RS422	RS485
1	RXD	TX+	DATA+
2	DCD	TX-	DATA-
3	DTR	RX-	No connect
4	TXD	RX+	No connect
5	DSR	No connect	No connect
6	GND	GND	GND
7	CTS	No connect	No connect
8	RTS	No connect	No connect
9	No connect	No connect	No connect
10	RI/5V/12V	No connect	No connect

2.2.24 COM2 (Serial port select)

24



Serial Port Cable Connector



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

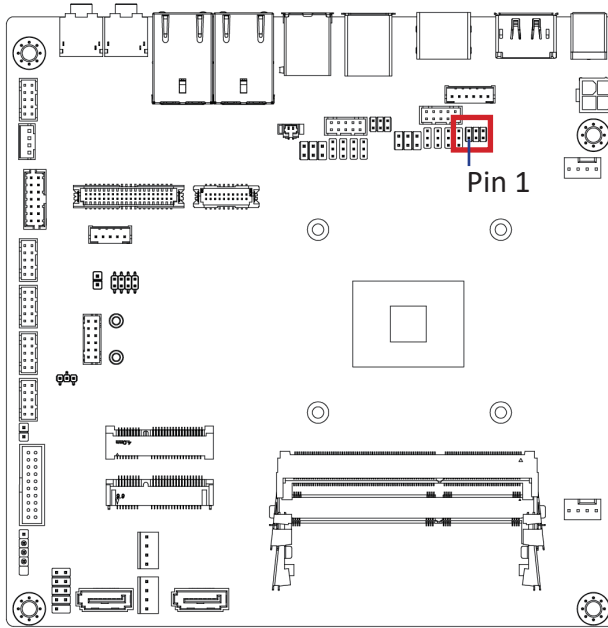
Connector PN	Vendor
725-81-10TW00	PINREX
A2004WV-2X05P46	JOINT-TECH

RS-422/RS-485's signal table

Pin No.	Signal Name		
	RS232	RS422	RS485
1	RXD	TX+	DATA+
2	DCD	TX-	DATA-
3	DTR	RX-	No connect
4	TXD	RX+	No connect
5	DSR	No connect	No connect
6	GND	GND	GND
7	CTS	No connect	No connect
8	RTS	No connect	No connect
9	No connect	No connect	No connect
10	RI/5V/12V	No connect	No connect

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

25



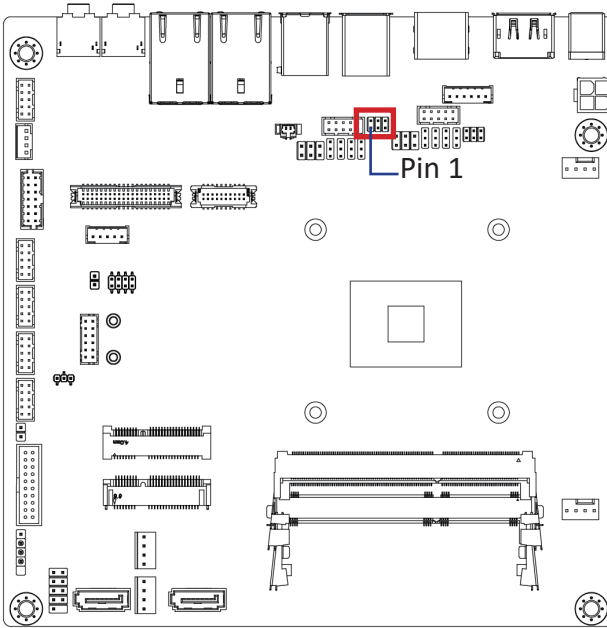
JCOM12/22 Jumper	
	1-2 Close: RS-232
	3-4 Close: RS-422
	5-6 Close: RS-485

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

Connector PN	Vendor
222-97-03GBE1	PINREX

2.2.26 JCOM22 (RS-232/RS-422/RS-485 select)

26



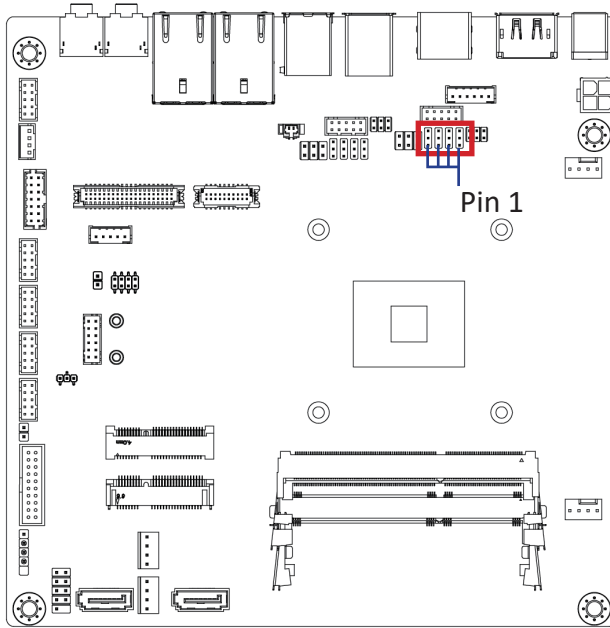
JCOM12/22 Jumper	
	1-2 Close: RS-232
	3-4 Close: RS-422
	5-6 Close: RS-485

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

Connector PN	Vendor
222-97-03GBE1	PINREX

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

27



JRS 11-14 Jumper



1-2 Close:
RS-422/RS-485

2-3 Close:
RS-232 (Default-setting)

Connector PN

220-96-03GB01

PH03N2-7BAN000

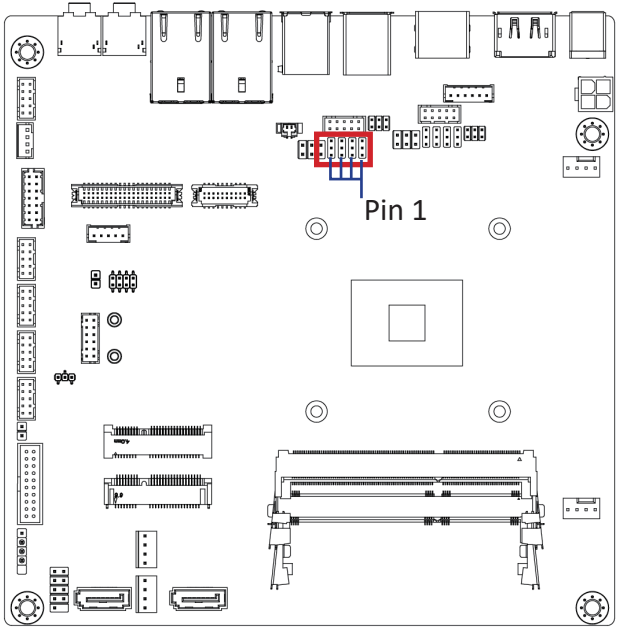
Vendor

PINREX

HORNGTONG

2.2.28 JRS21, JRS22, JRS23, JRS24 (RS21, RS22, RS23, RS24 select jumper for serial port)

28

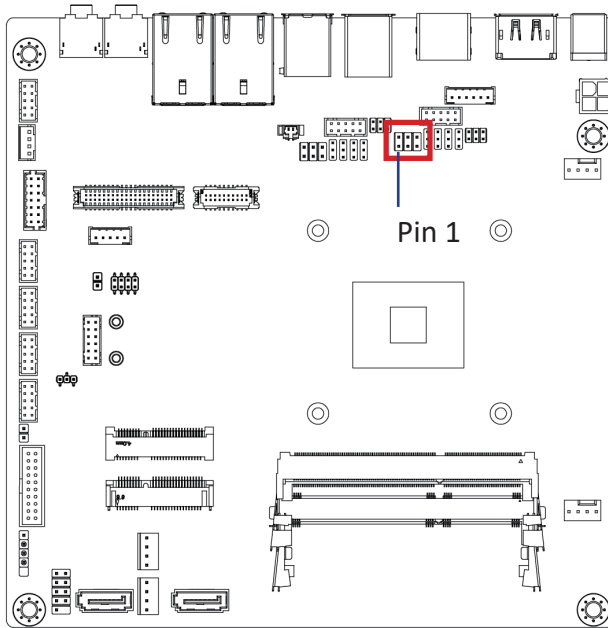


JRS 21-24 Jumper
1-2 Close: RS-422/RS-485
2-3 Close: RS-232 (Default-setting)

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

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

29

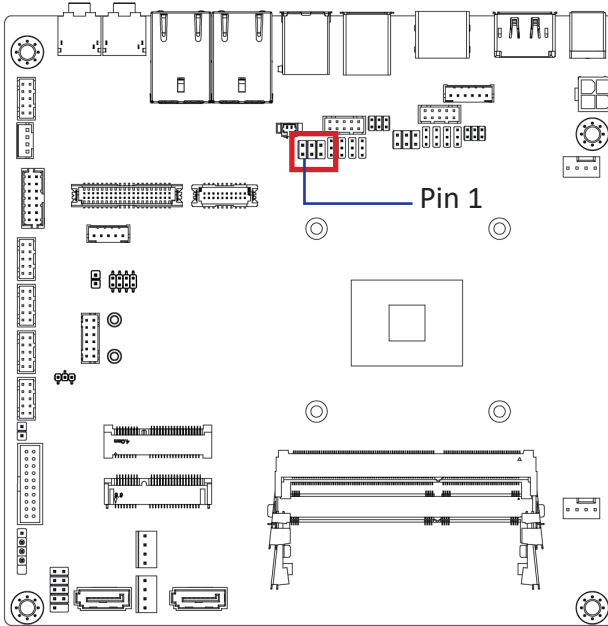


JCOM11 Jumper	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM)
	5-6 Close: 12V (Power COM)

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

2.2.30 JCOM21 (COM21 RI# pin RI#/5V/12V Select)

30

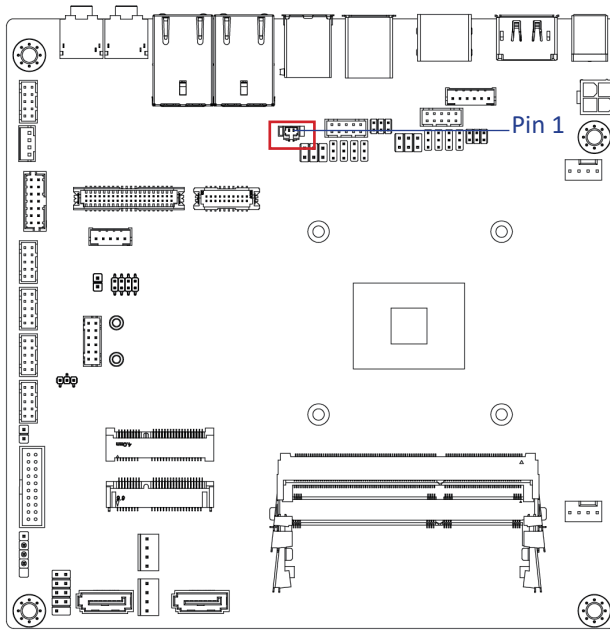


JCOM21 Jumper	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM)
	5-6 Close: 12V (Power COM)

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

2.2.31 Battery

31



Battery Cable Connector



Connector PN

85205-0270L

A1250WV-S-02PC

Vendor

ACES

JOINT-TECH

Pin No.

Definition

1

3.3V

2

GND