

# QBiP-1900A/ QBiP-1900AT

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3.5" SBC Boards- QBiP-1900A/ QBiP-1900AT

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# Packing List

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

Item	Quantity
QBiP-1900A/ QBiP-1900AT	1
SATA power cable	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

## About this Document

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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](http://GIGAIPC.com) for the latest version of this document.

# Safety Precautions

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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

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### **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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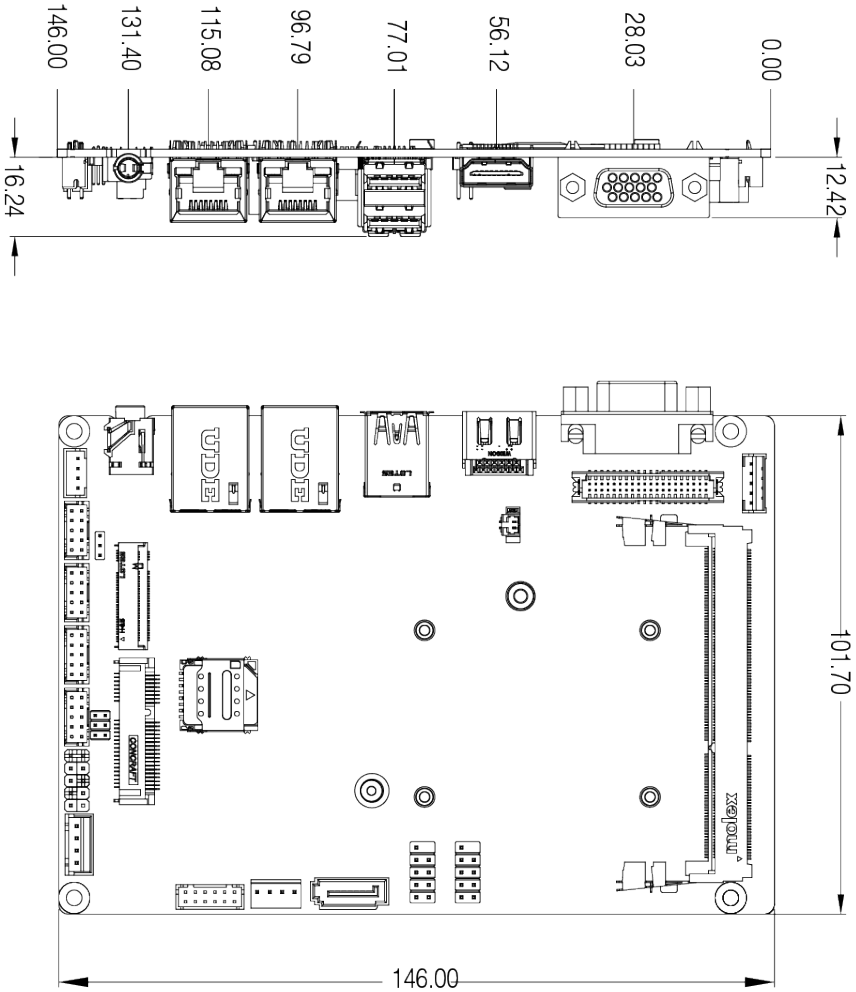
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# Chapter 1

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## Chapter 1 - Product Specifications QBiP-1900A/ QBiP-1900AT



## 1.1 Specifications- QBiP-1900A/ QBiP-1900AT

Motherboard	QBiP-1900A	QBiP-1900AT
Form Factor	3.5" SBC 146W x 101.7Dmm	
CPU	Intel® Celeron® J1900 Processor 22nm, 4 cores, 4 threads, up to 2.42 GHz TDP 10W	
Socket	1 x FCBGA1170	
Chipset	—	
Memory	1 x DDR3L SO-DIMM socket, Max. Capacity 8 GB Support Single channel DDR3L 1333 MHz memory module	
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	
Video	Integrated Graphics Processor -Intel® HD Graphics 500 1 x HDMI port, supporting a maximum resolution of 1920x1200 @60Hz 1 x D-SUB port, supporting a maximum resolution of 2560x1600 @60Hz (with compatible displays) 1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz	
Audio	Realtek® Audio Codec	
Storage	1 x SATA 3Gb/s Port	
Raid	—	
Expansion Slots	1 x 2280 M.2 M-Key (SATA 3Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1 + USB2.0) -- support 3G/4G module	

Motherboard	QBiP-1900A	QBiP-1900AT
Internal I/O	1 x 4-pin box power connector (DC in +9V~36VDC) (+48VDC optional) 1 x SATA Power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x COM headers (RS-232) 1 x COM header (RS-232/422/485) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x Buzzer header	
Rear I/O	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 1 x USB 2.0 1 x USB 3.2 Gen 1	
TPM	1 x TPM header	
OS Compatibility	Windows 10 (x64)	
PSU Connectors	1 x 4-pin Box header power connector (+9~36V Full Range) (+48VDC optional)	
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)	Operating temperature: -40°C to 85°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing)

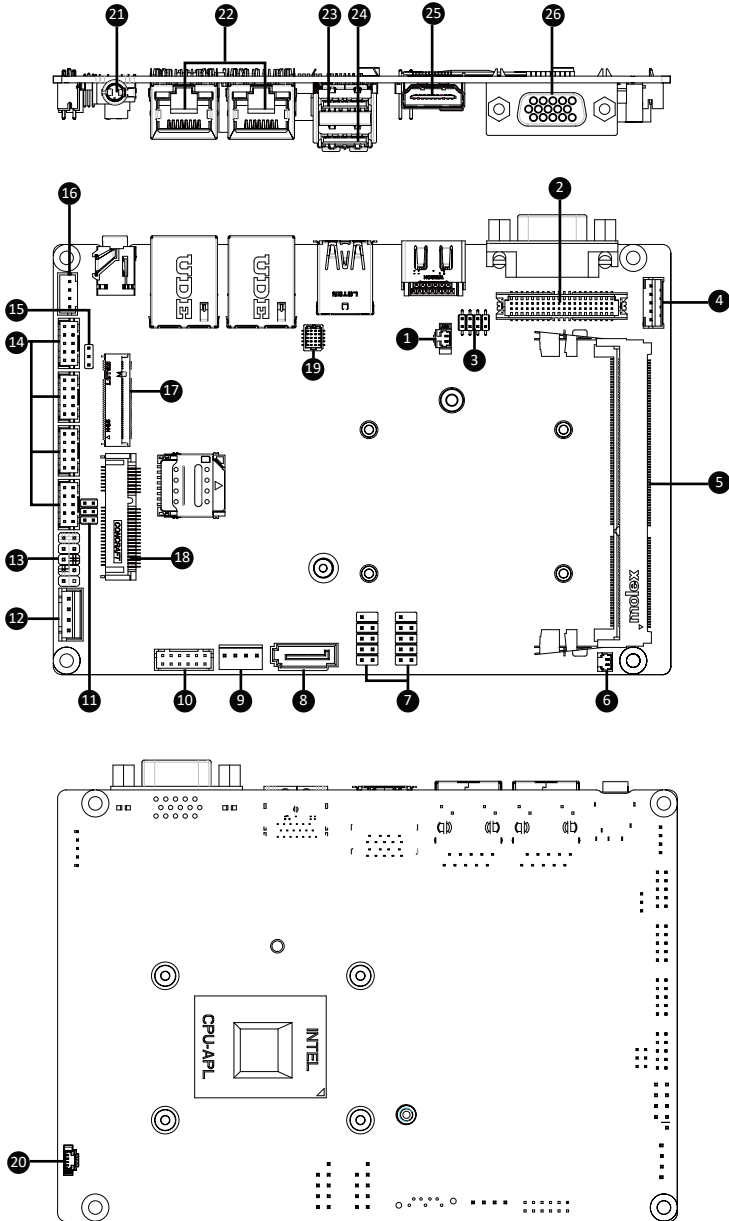


# Chapter 2

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## Chapter 2 – Hardware Information

# 3.1 Jumpers and Connectors

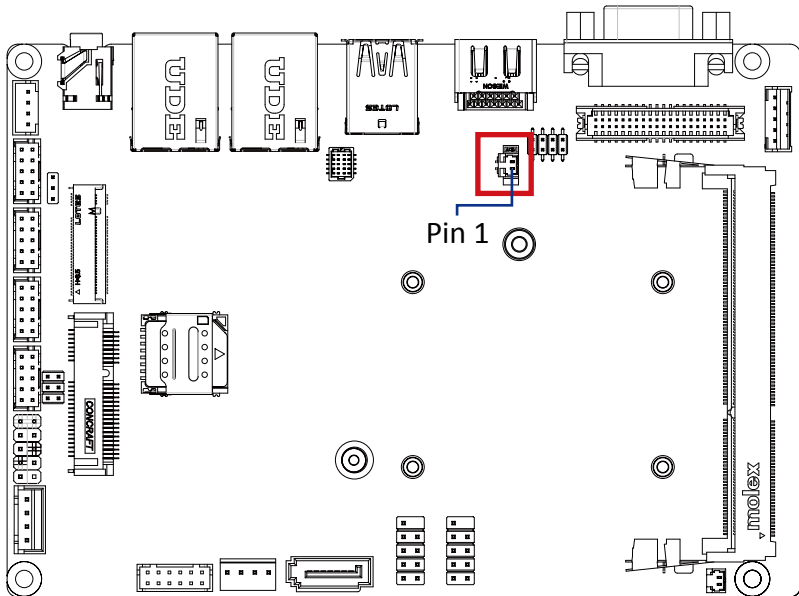


	Code	Description
1	Battery	Battery
2	LVDS	LVDS connector
3	LSW	LVDS resolution jumper
4	BKL_CN	Backlight brightness control connector
5	SODIMM	DDR3L SO-DIMM slot
6	BUZZER	
7	FUSB20_1 FUSB20_2	USB 2.0 header x 2
8	SATA	SATA 3Gb/s Connector
9	SATAPW	SATA Power Connector
10	GPIO_CNT	General Purpose input/output header
11	JCOM11	RI# pin RI#/5V/12V Select jumper for COM1 port
12	DC_IN	DC IN 1x4pin power connector
13	SYS_PANEL	Front panel header
14	COM1 COM2 COM3 COM4	Serial port header COM1 : RS-232/422/485 & RI/5V/12V COM2 : RS-232/422/485 COM3, COM4 : RS-232
15	AT_CN	AT/ATX power mode select jumper
16	SPK_OUT	Speaker out connector
17	M2M	M.2 Slot, 2280 M-key
18	MPCIE	Mini PCIe full size slot
19	LPC_CN	LPC Connector

	Code	Description
20	FAN	FAN Connector
21	HP	Audio out Connector
22	LAN1, LAN2	LAN Connectors
23	RUSB	USB 3.2 Gen 1 Connector
24		USB 2.0 Connector
25	HDMI	HDMI Connector
26	VGA	D-Sub Port

## 2.2.1 BATTERY

1



Battery Cable Connector



Connector PN

85205-0270L

A1250WV-S-02PC

Vendor

ACES

JOINT-TECH

Pin No.

Definition

1

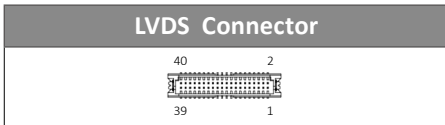
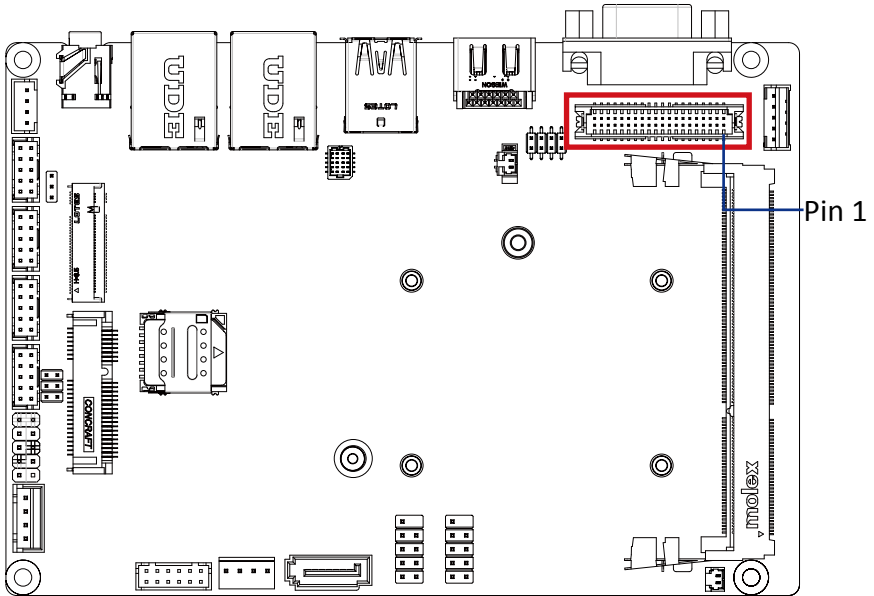
3V

2

GND

## 2.2.2 LVDS (LVDS connector)

2



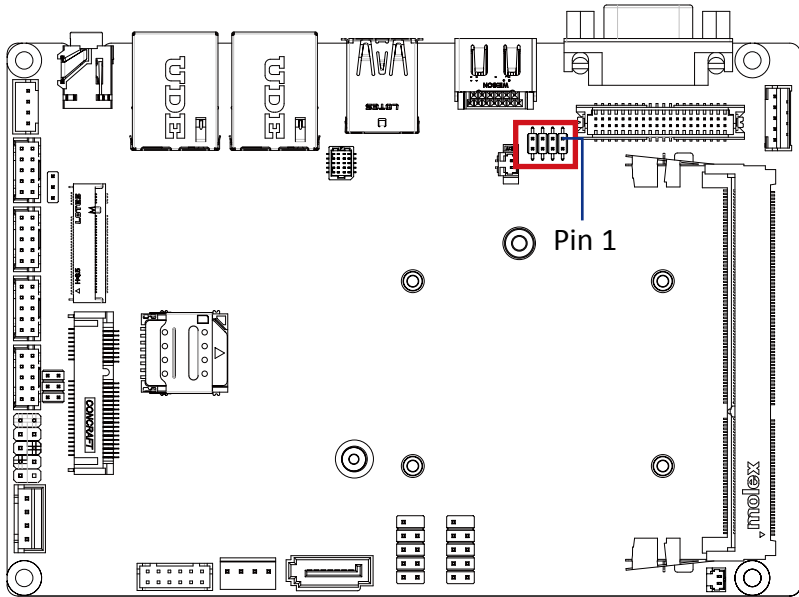
Pin No.	Definition	Pin No.	Definition
17	A3n	37	GND
18	A2n	38	GND
19	GND	39	12V
20	GND	40	12V

Pin No.	Definition	Pin No.	Definition
1	3.3V	21	A5p
2	5V	22	A4p
3	3.3V	23	A5n
4	5V	24	A4n
5	SPECO	25	GND
6	SPEDO	26	GND
7	GND	27	A7p
8	GND	28	A6p
9	A1p	29	A7n
10	A0p	30	A6n
11	A1n	31	GND
12	A0n	32	GND
13	GND	33	CLK2p
14	GND	34	CLK1p
15	A3p	35	CLK2n
16	A2p	36	CLK1n

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

## 2.2.3 LSW (LVDS resolution jumper)

3

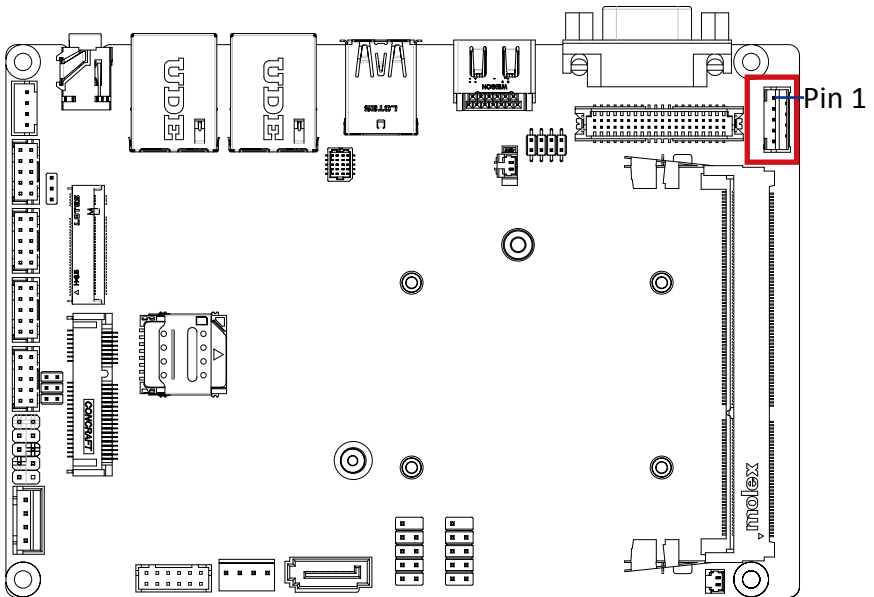


LVDS Resolution Jumper			
Jumper Setting	Resolution	Jumper Setting	Resolution
8 8888 1	800 x 600 18bit	8 8888 1	1366 x 768 24bit
8 888 1	1024 x 768 18bit	8 888 1	1440 x 900 24bit
8 888 1	1024 x 768 24bit	8 888 1	1400 x 1050 24bit
8 88 1	1024 x 600 18bit	8 88 1	1600 x 900 24bit
8 888 1	1280 x 800 18bit	8 888 1	1680 x 1050 24bit
8 888 1	1280 x 960 18bit	8 888 1	1600 x 1200 24bit
8 888 1	1280 x 1024 24bit	8 888 1	1920 x 1080 24bit
8 888 1	1366 x 768 18bit	8 888 1	1920 x 1200 24bit

Connector PN	Vendor
222-97-04GBE1	PINREX

## 2.2.4 BKL\_CN (Backlight Control connector)

4



### Backlight Control connector



### Connector PN

721-81-05TW00

A2001WV-05P146

### Vendor

PINREX

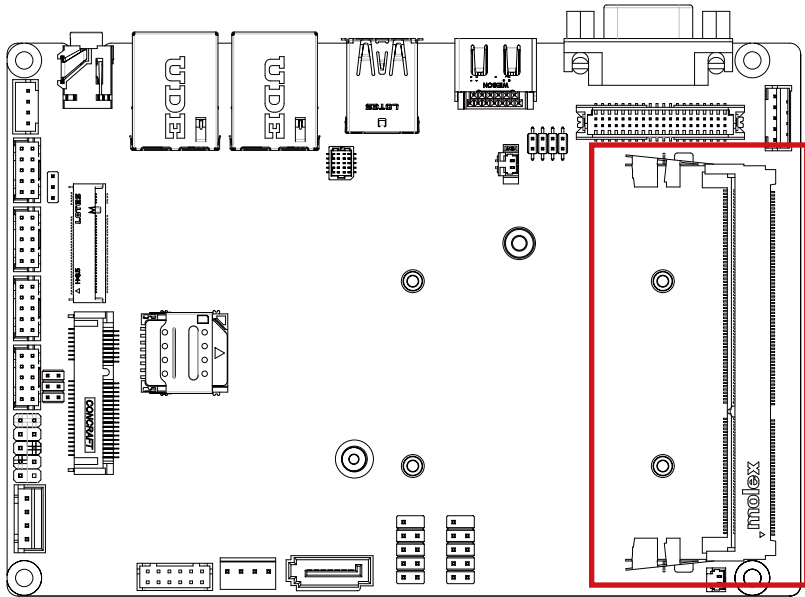
JOINT-TECH

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



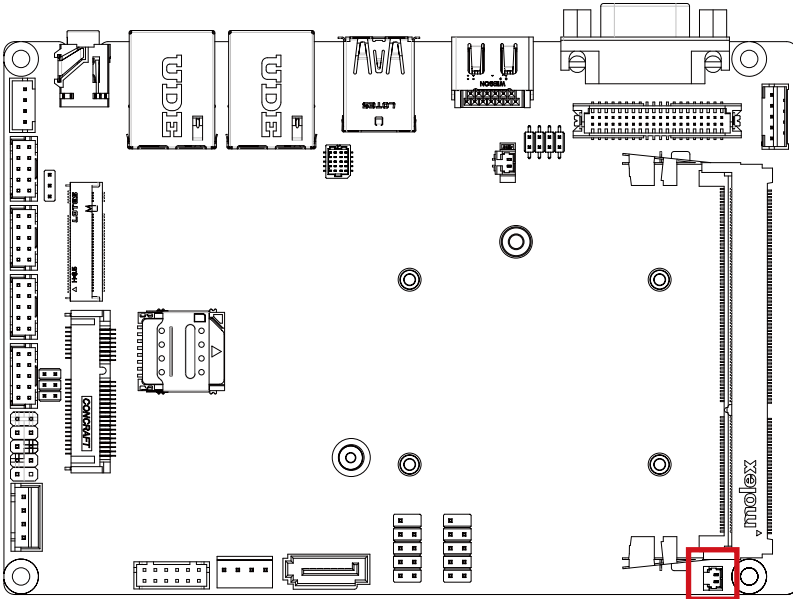
## 2.2.5 SODIMM (DDR3L SO-DIMM slot)


5



## 2.2.6 BUZZER

6



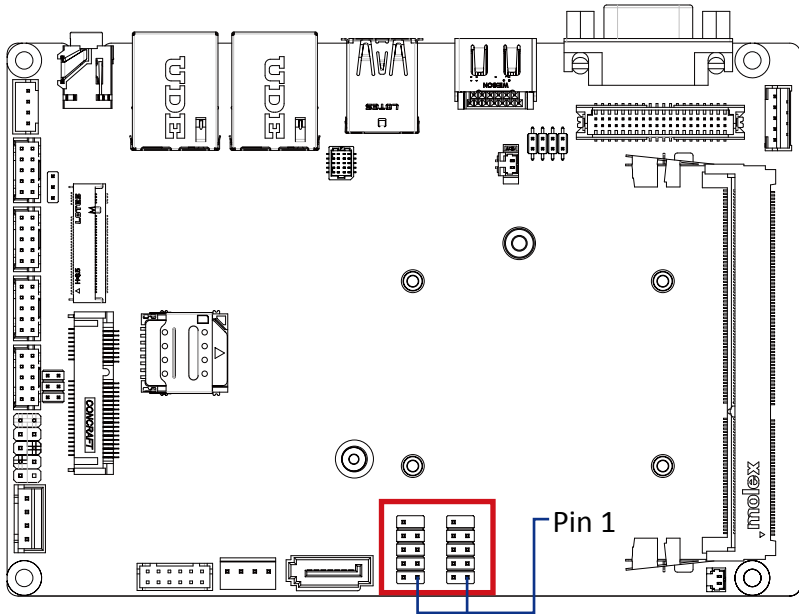
Buzzer


Connector PN	Vendor
712-71-02TW01	PINREX
A1250WV-02P	JOINT-TECH

Pin No.	Definition
1	SPK
2	5V

## 2.2.7 FUSB20\_1, FUSB2\_2 (USB 2.0 header)

7



USB 2.0 Header



Connector PN

210-92-05GB04

PH10R53BAZ009

Vendor

PINREX

HORNGTONG

Pin No.

Definition

1

5V

2

5V

3

D2n

4

D1n

5

D2p

6

D1p

7

GND

8

GND

9

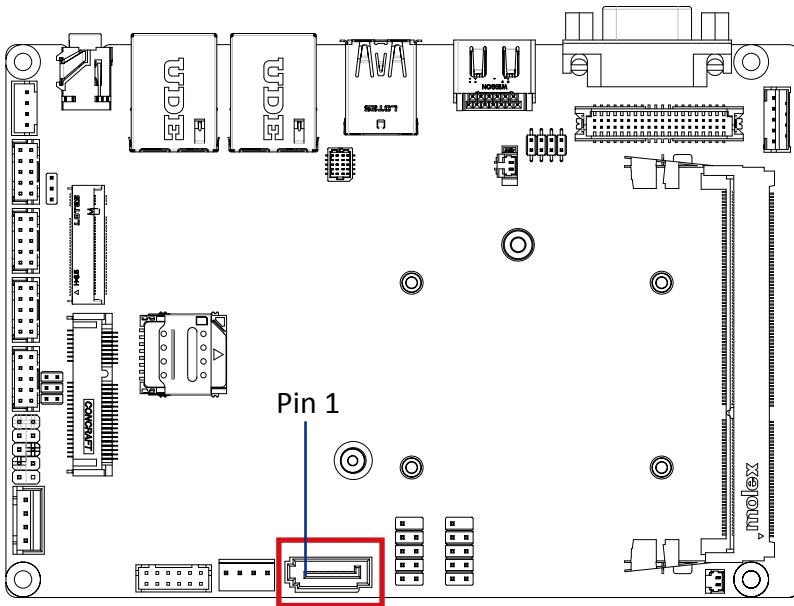
No Pin

10

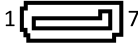
No Connect

## 2.2.8 SATA (SATA 3Gb/s Connector)

8



SATA 3Gb/s Connector



Connector PN

Vendor

WAT3M-07A1G3BU4W

WINWIN

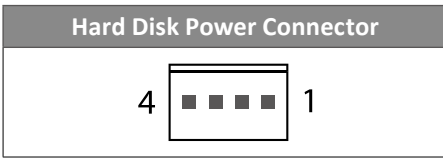
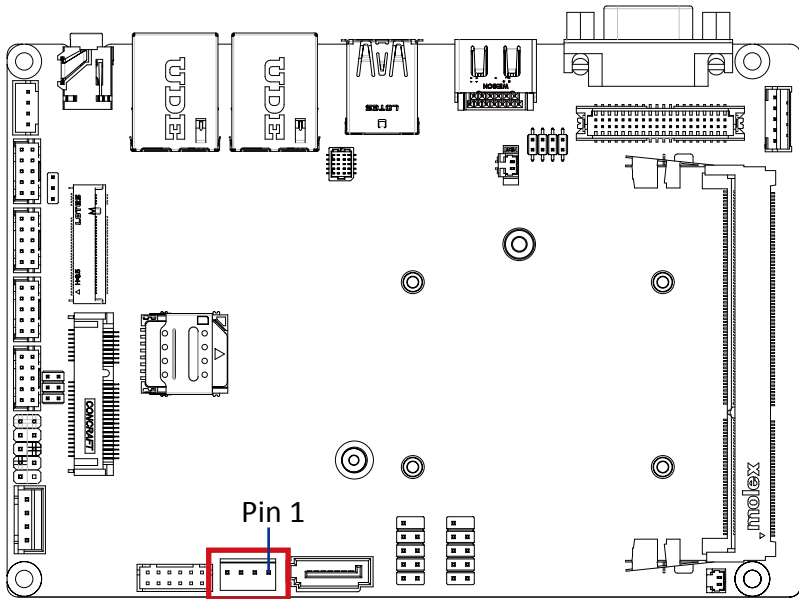
ABA-SAT-054-S15

LOTES

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

## 2.2.9 SATAPW (SATA power connector)

9

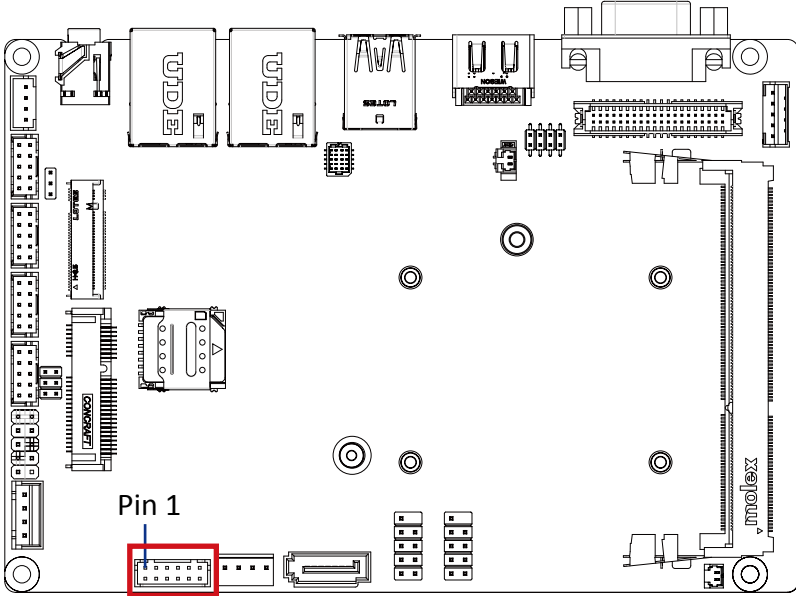


Connector PN	Vendor
743-81-04TW00	PINREX
WF04Q2-3BJQ000	HORNGTONG

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

## 2.2.10 GPIO\_CNT (General Purpose input/output header)

10



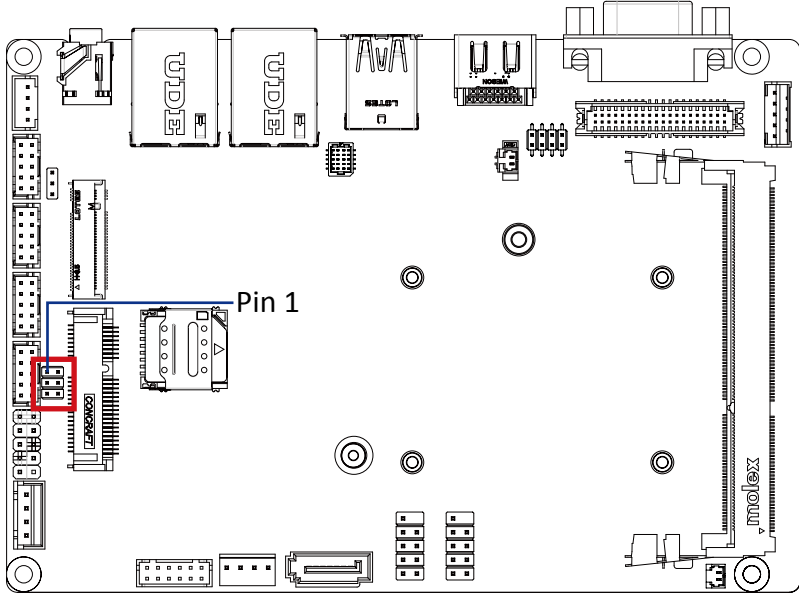
GPIO Connector	

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

Pin No.	Definition
1	GPIO-output_1
2	GPIO-input_1
3	GPIO-output_2
4	GPIO-input_2
5	GPIO-output_3
6	GPIO-input_3
7	GPIO-output_4
8	GPIO-input_4
9	SMBus Clock
10	SMBus DATA
11	5V
12	GND

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

11

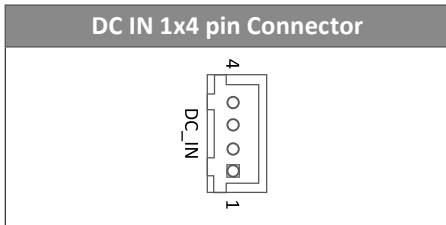
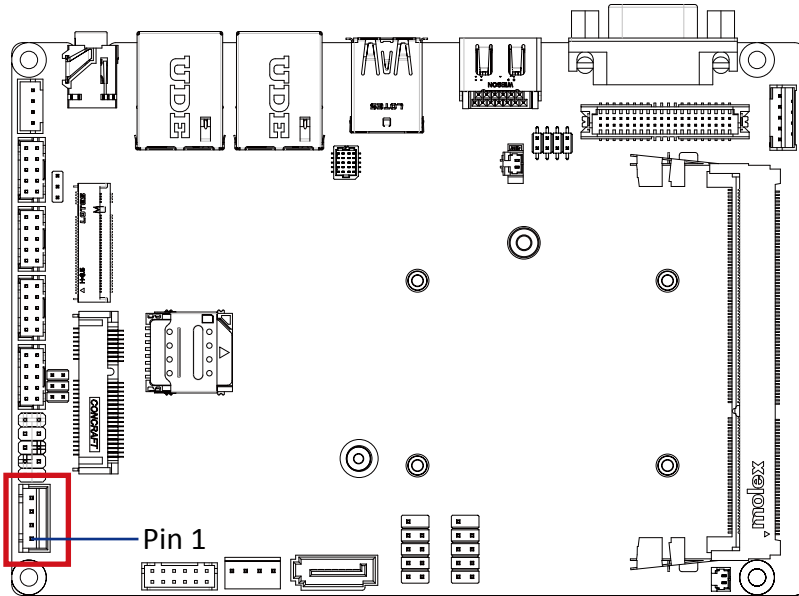


JCOM11 Jumper Select	
	1-2 Close: 5V (Power COM)
	3-4 Close: RI (Stand COM) Default
	5-6 Close: 12V (Power COM)

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

## 2.2.12 DC IN (DC IN 1x4pin power connector)

12



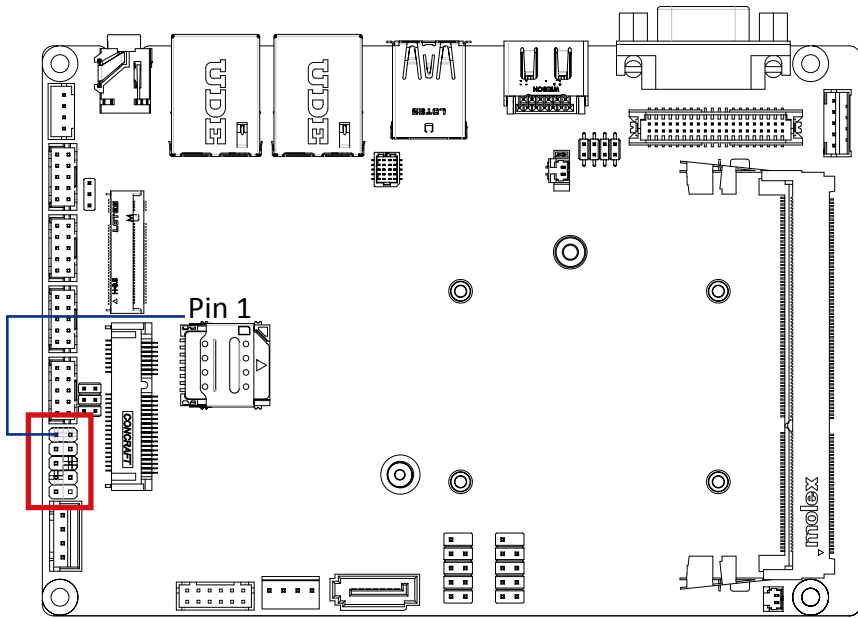
Connector PN	Vendor
753-81-04TW00	PINREX

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



## 2.2.13 SYS\_PANEL (Front panel header)

13



System Panel Header



Connector PN

210-92-05G111

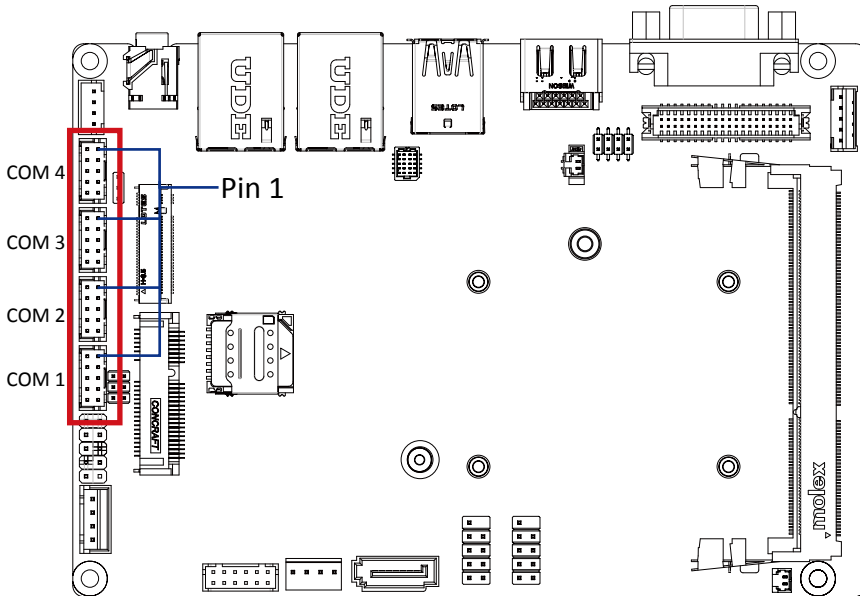
Vendor

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

## 2.2.14 COM1, COM2, COM3, COM4 (Serial port header)

14



Serial Port Cable Connector



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	-	-

Connector PN

Vendor

725-81-10TW00

PINREX

A2004WV-2X05P46

JOINT-TECH

### Note :

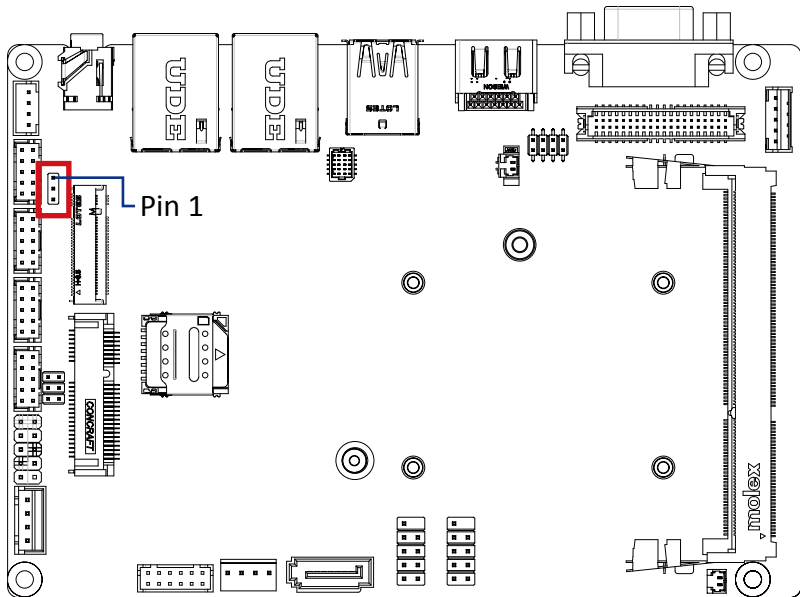
COM1 : Support RS-232/422/485 & RI/5V/12V  
For RI/5V/12V jumper setting, please see  
P. 41

COM2 : Support RS-232/422/485

COM3, COM4 : Support RS-232 only

## 2.2.15 AT\_CN (AT/ATX power mode select jumper)

15



### AT/ATX power mode select jumper



1-2 Close : AT mode.

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

### Connector PN

220-96-03GB01

PH03N2-7BAN000

### Vendor

PINREX

HORNGTONG

### Pin No.

### Definition

1

AT MODE

2

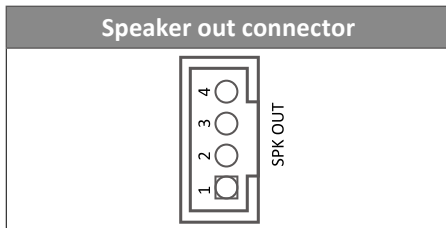
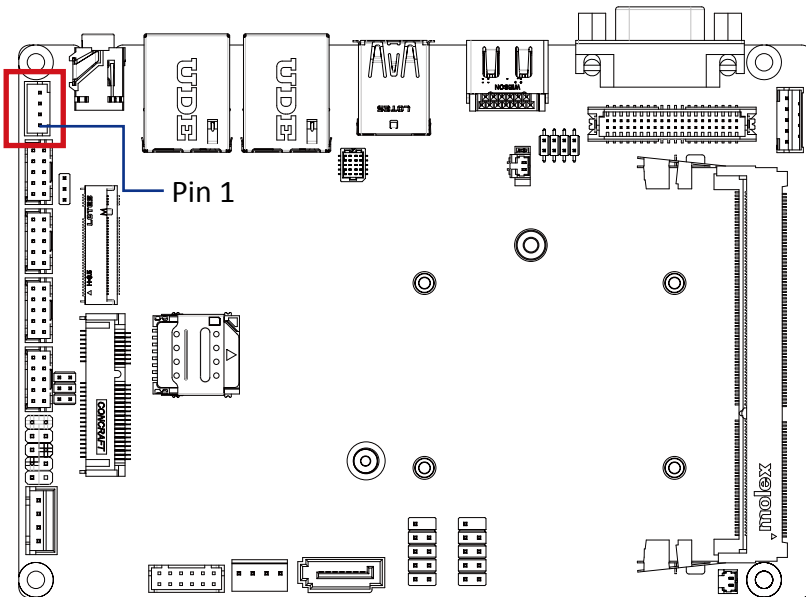
Detect

3

ATX MODE

## 2.2.16 SPK\_OUT (Speaker out connector)

16

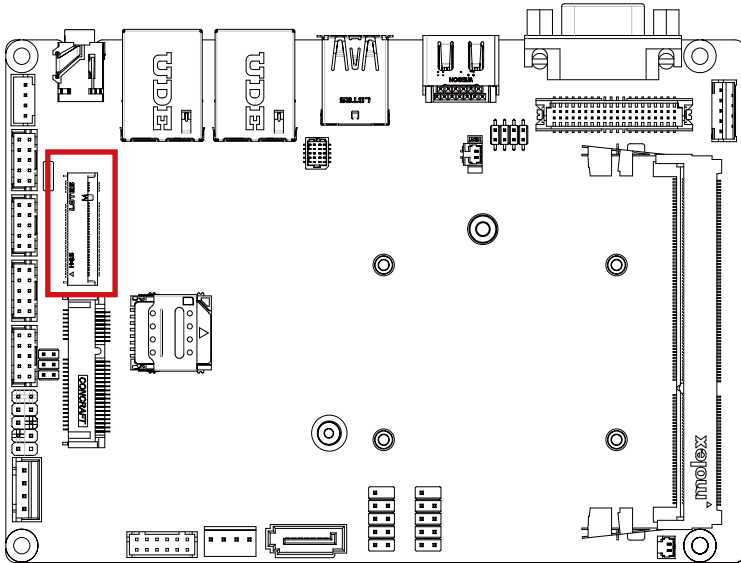


Pin No.	Definition
1	Speaker Out R+
2	Speaker Out R-
3	Speaker Out L-
4	Speaker Out L+

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

## 2.2.17 M2M (M.2 Slot, 2280 M-key)

17



M.2 M Key Connector



Pin No.	Definition	Pin No.	Definition
1	GND	2	3.3V
3	GND	4	3.3V
5	NC	6	NC
7	NC	8	NC
9	GND	10	NC
11	NC	12	3.3V
13	NC	14	3.3V
15	GND	16	3.3V
17	NC	18	3.3V
19	NC	20	NC
21	GND	22	NC
23	NC	24	NC
25	NC	26	NC
27	GND	28	NC
29	NC	30	NC
31	NC	32	NC
33	GND	34	NC
35	NC	36	NC
37	NC	38	NC

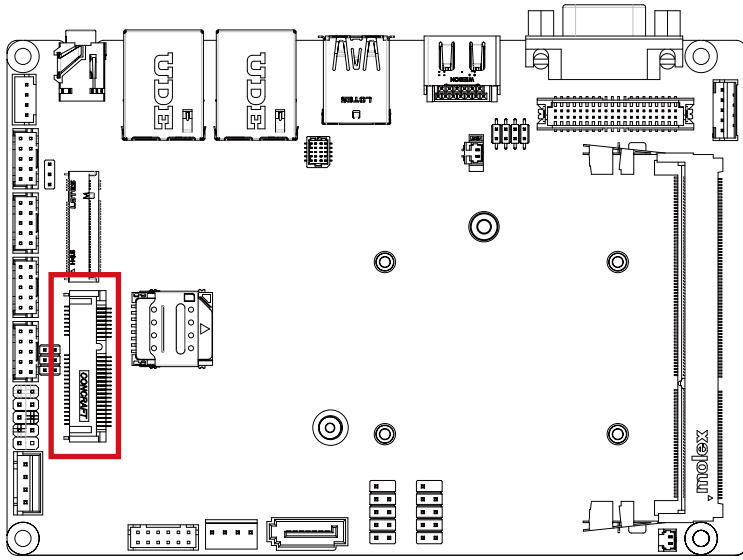
Pin No.	Definition	Pin No.	Definition
39	GND	40	NC
41	SATA RXp	42	NC
43	SATA RXn	44	NC
45	GND	46	NC
47	SATA TXn	48	NC
49	SATA TXp	50	Reset
51	GND	52	NC
53	NC	54	NC
55	NC	56	NC
57	GND	58	NC

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

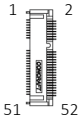
Connector PN	Vendor
80159-8521	BELLWETHER
2E0BC21-S85BM-7H	FOXCONN
APCI0096-P002A	LOTES

## 2.2.18 MPCIE (Mini PCIe slot)

18



Mini PCIe Connector



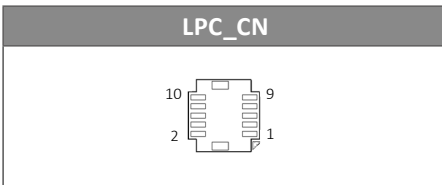
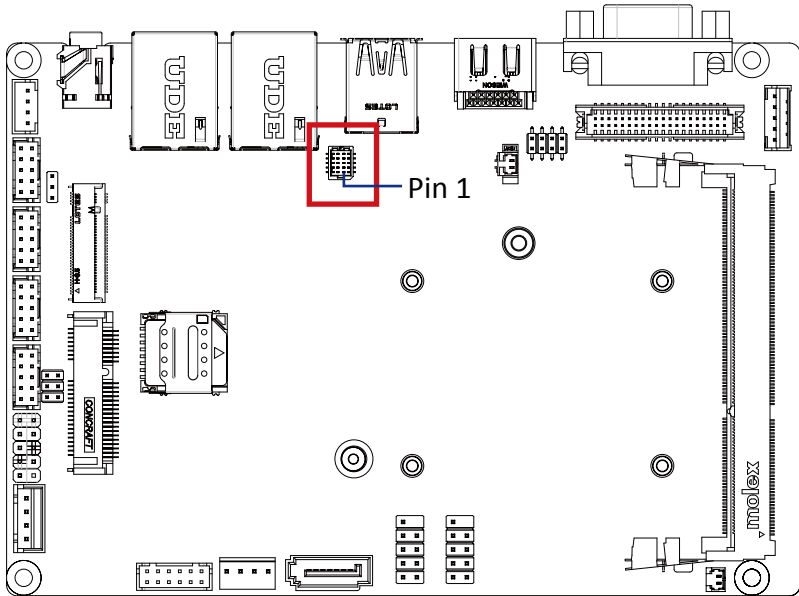
Pin No.	Definition	Pin No.	Definition
1	PCIE WAKE	2	3.3V
3	NC	4	GND
5	NC	6	NC
7	PCIE Clock Request	8	SIM VDD
9	GND	10	SIM DATA
11	PCIE Clockn	12	SIM Clock
13	PCIE Clockp	14	SIM Reset
15	GND	16	UIM VPP3
17	NC	18	GND
19	NC	20	MPWF_DISABLE
21	GND	22	PFRreset
23	PCIE RXn	24	3.3V
25	PCIE RXp	26	GND
27	GND	28	NC
29	GND	30	SMB Clock
31	PCIE TXn	32	SMB DATA

Pin No.	Definition	Pin No.	Definition
33	PCIE TXp	34	GND
35	GND	36	USB Dn
37	GND	38	USB Dp
39	3.3V	40	GND
41	3.3V	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	NC
49	NC	50	GND
51	NC	52	3.3V

Connector PN	Vendor
AS0B221-S99Q-7H	FOXCONN

## 2.2.19 LPC\_CN (LPC Connector)

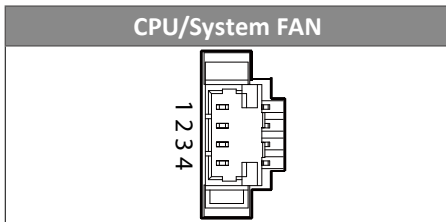
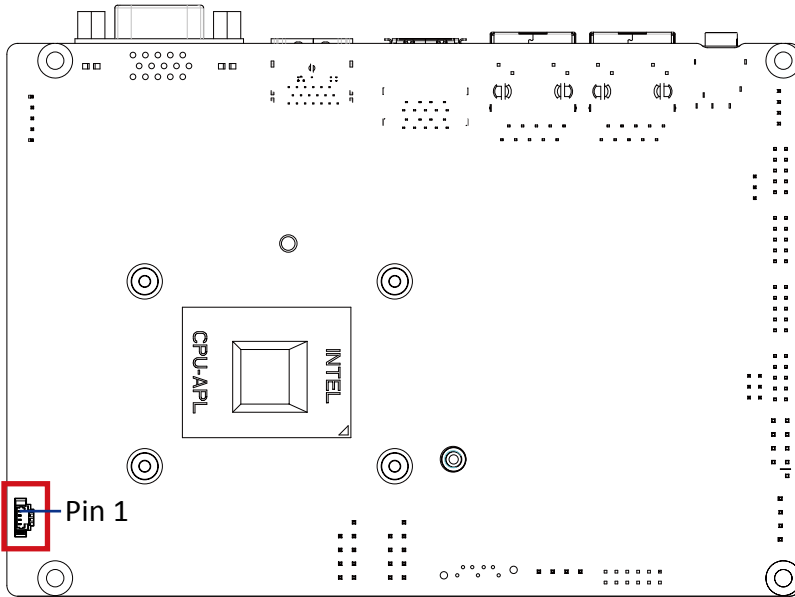
19



Pin No.	Definition
1	LPC_CLK
2	GND
3	LFRAME#
4	LAD0
5	PCI_RST
6	LAD1
7	LAD3
8	LAD2
9	3.3V
10	SERIRQ

## 2.2.20 FAN (FAN Connector)

20



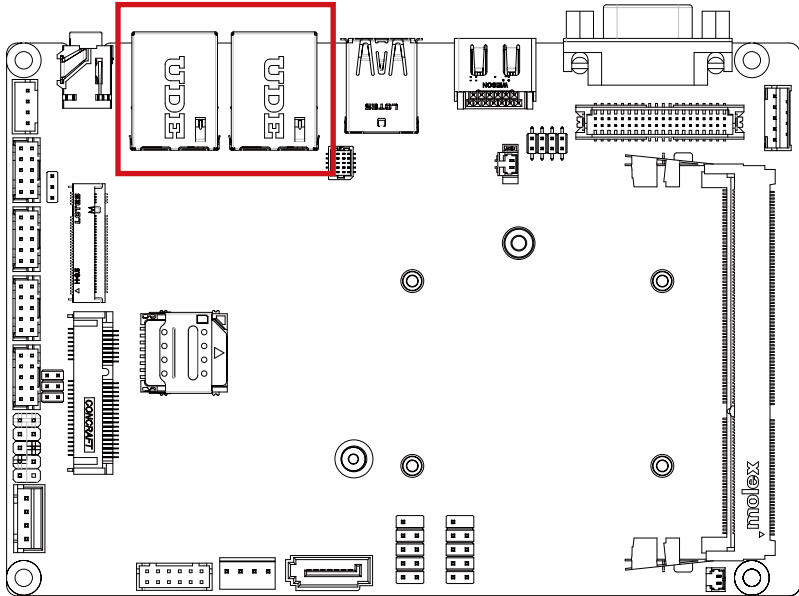
Connector PN	Vendor
85205-0470N	ACES
A1250WV-S-04PC	JOINT-TECH

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



## 2.2.21 LAN1, LAN2 (LAN Connector)

22



LAN Connector



Status

Description

Orange On

1Gbps data rate

Green On

100Mbps data rate

Off

10Mbps data rate

Pin No.

Definition

1

TX1+

2

TX1-

3

TX2+

6

TX2-

4

TX3+

5

TX3-

7

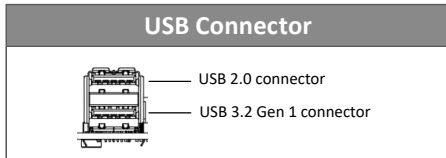
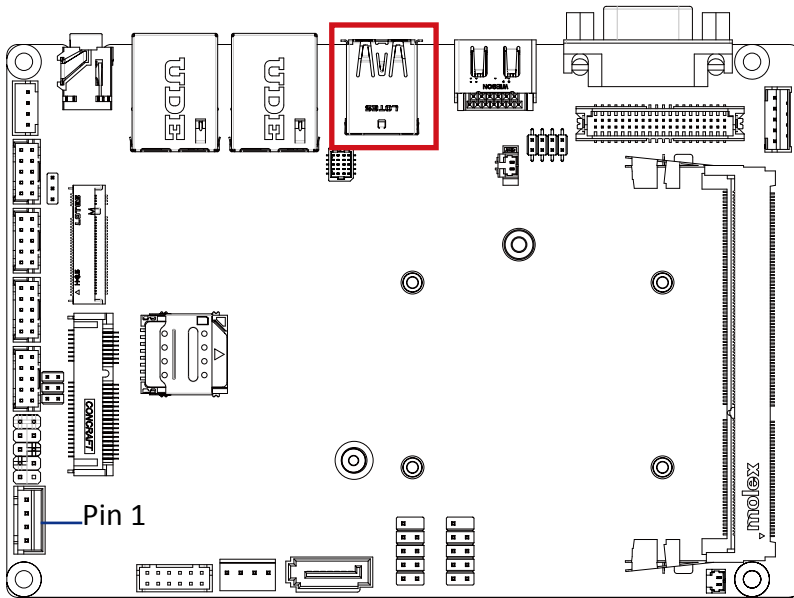
TX4+

8

TX4-

## 2.2.22 RUSB1, RUSB2 (USB 3.2 Gen 1 + USB 2.0 connector)

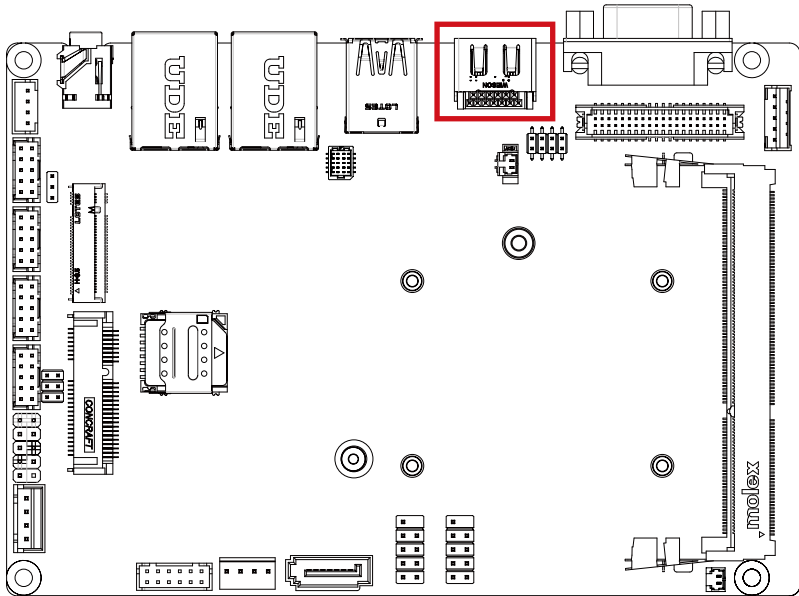
23 24



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

## 2.2.23 HDMI (HDMI Connector)

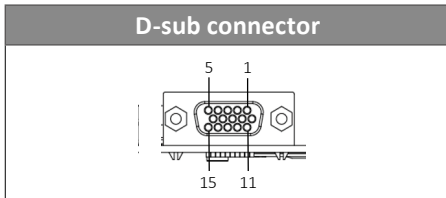
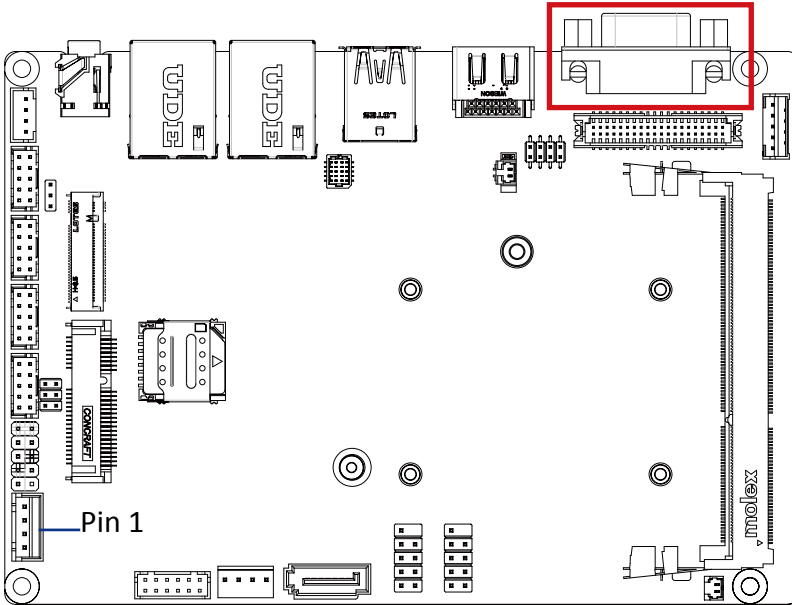
25



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

## 2.2.24 VGA (D-sub port)

26



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