

**TA-215AN97A-A1
TA-156AN97A-A1
TA-116AN97A-A1**

21.5", 15.6", 11.6" True-Flat Multi-Touch panel PC
Quick Start Guide

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Packing List

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

| Item | Quantity |
|---|----------|
| System kit | 1 |
| Power Cord : Optional (by region) | 1 |
| PSU ADP 19V 65W 100-240VAC (25EP1-100651-A3S) | 1 |
| Screws For VESA mounting M4x6L | 4 |

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.

- System - Panel PC TA-Series TA-215AN97A-A1_156AN97A-A1_116AN97A-A1
- 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 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.*

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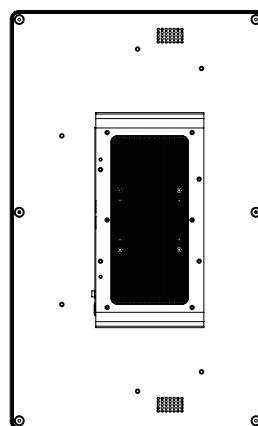
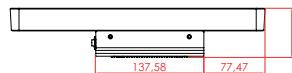
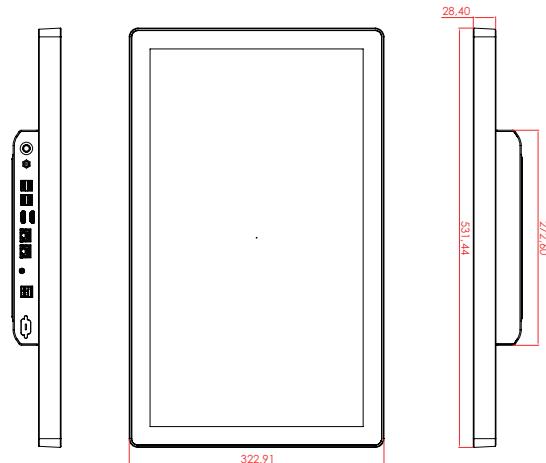
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Chapter 1

Chapter 1 - Product Specifications

1.1 Dimension

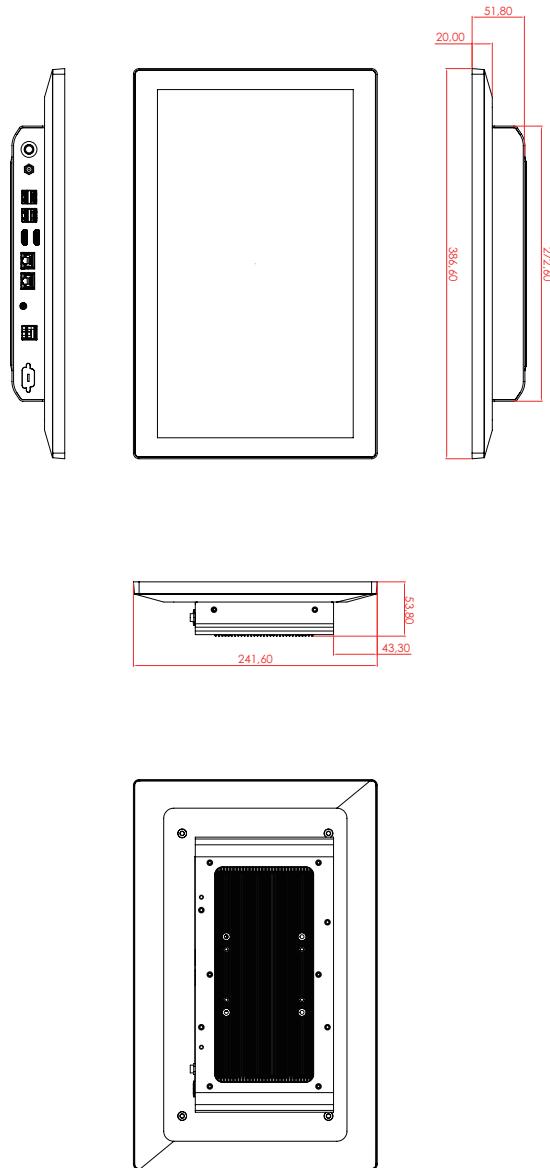
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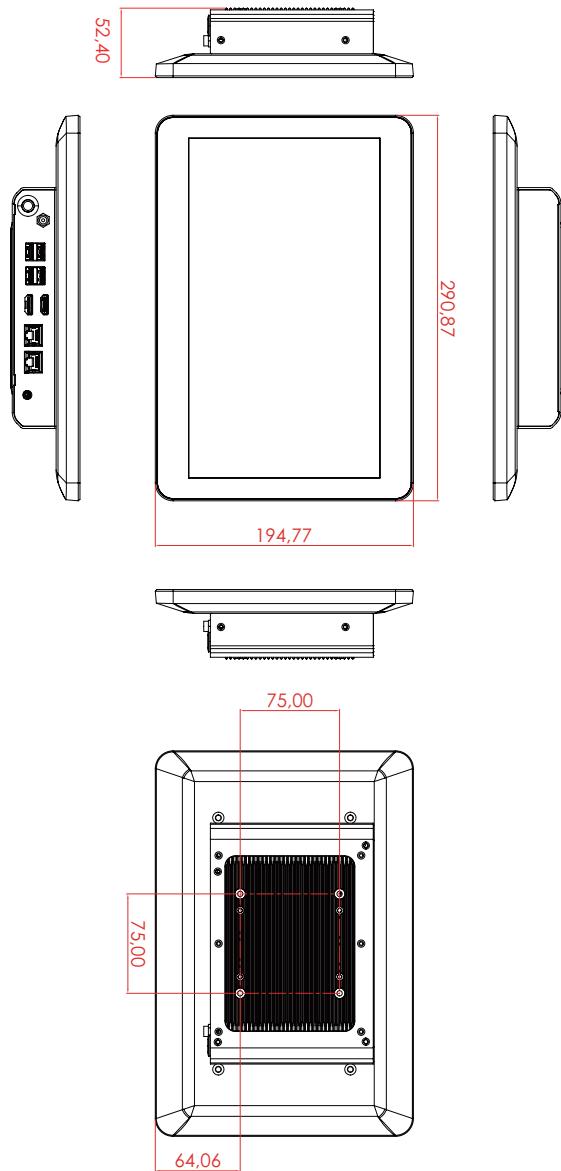
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System - Panel PC TA-Series

TA-215AN97A-A1_156AN97A-A1_116AN97A-A1



TA-116AN97A-A1



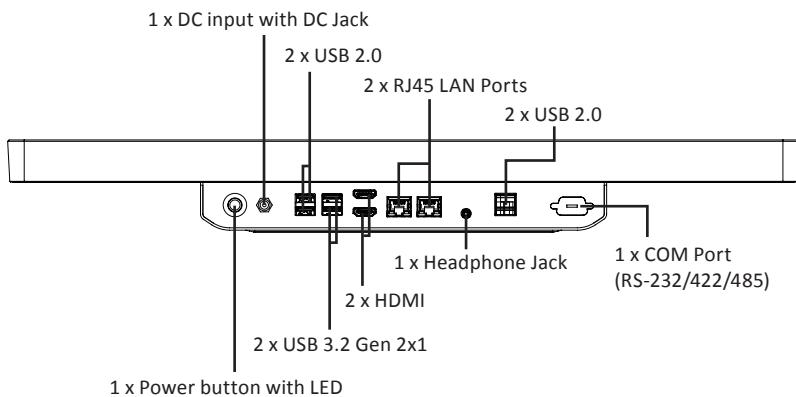
1.2 Specifications

| System | | TA-215AN97A-A1 | TA-156AN97A-A1 | TA-116AN97A-A1 |
|------------------|------------------|---|--|--|
| LCD | Panel size | 21.5" | 15.6" | 11.6" |
| | Resolution | 1920x1080 | 1920x1080 | 1366x768 |
| | Viewing angel | Horizontal : 178 / Vertical : 178 | Horizontal : 170 / Vertical : 170 | Horizontal : 170 / Vertical : 170 |
| | Brightness | 250 Cd/M ² | 400 Cd/M ² | 220 cd/m ² |
| | Color Support | 16.7M | 262K | 262K |
| | Backlight MTBF | 30,000 hrs | 30,000 hrs | 15,000 hrs |
| | Contrast Ratio | 1000 | 800 | 800 |
| Touch screen | Touchscreen Type | Projected Capacitive (PCAP) | | |
| | Surface Hardness | ≥ 7H | ≥ 7H | 6H |
| | Transparency | 86% | 86% | 85% |
| Dimension | | System Size : 531.4W x 322.9D x 62.2H (mm) | System Size : 386.6W x 241.6D x 53.8H (mm) | System Size : 290.9W x 194.8D x 52.4H (mm) |
| Weight | | 6.6 Kg | 2.8 Kg | 1.7 Kg |
| CPU | | Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz | | |
| Memory | | 1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz memory modules | | |
| Ethernet | | 2 x 2.5GbE LAN Ports (Intel® I225V) | | |
| Graphics support | | Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz (2 independent display outputs) | | |
| Audio | | Realtek® ALC897 | | |
| Expansion Slots | | 1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot | | |

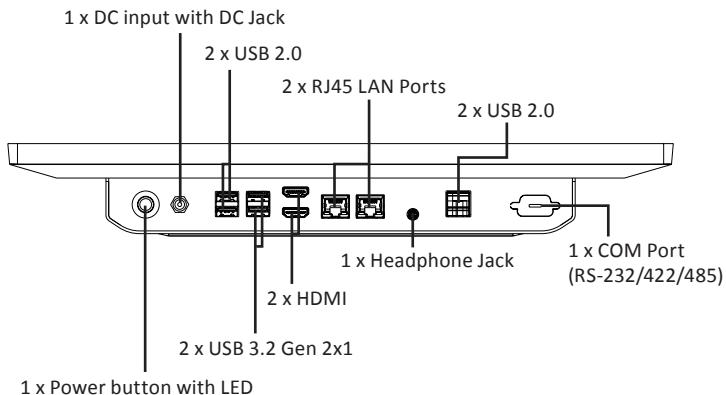
| System | TA-215AN97A-A1 | TA-156AN97A-A1 | TA-116AN97A-A1 |
|-----------------------|--|---|--|
| TPM | Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0 | | |
| Rear I/O | 2 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x COM Port (RS-232/422/485) 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack | 2 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x COM Port (RS-232/422/485) 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack | 2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack |
| Power Input | +12V~36VDC | | |
| Operation Temperature | Operating temperature: 0°C to 40°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing) Use wide temperature range memory and storage | | |
| IP Protection | Front bezel meets IP-65 | | |
| Mounting | Wall, Stand with VESA 75 x 75 | | |
| Order Information | 25OL5-212100-M0R (8GB DDR5 RAM, 128GB M.2 SSD) | 25OL5-151500-M0R (8GB DDR5 RAM, 128GB M.2 SSD) | 25OL5-111100-M0R (8GB DDR5 RAM, 128GB M.2 SSD) |

1.3 I/O outlets

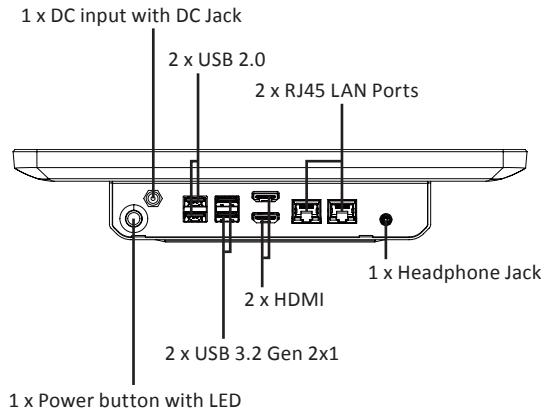
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TA-156AN97A-A1



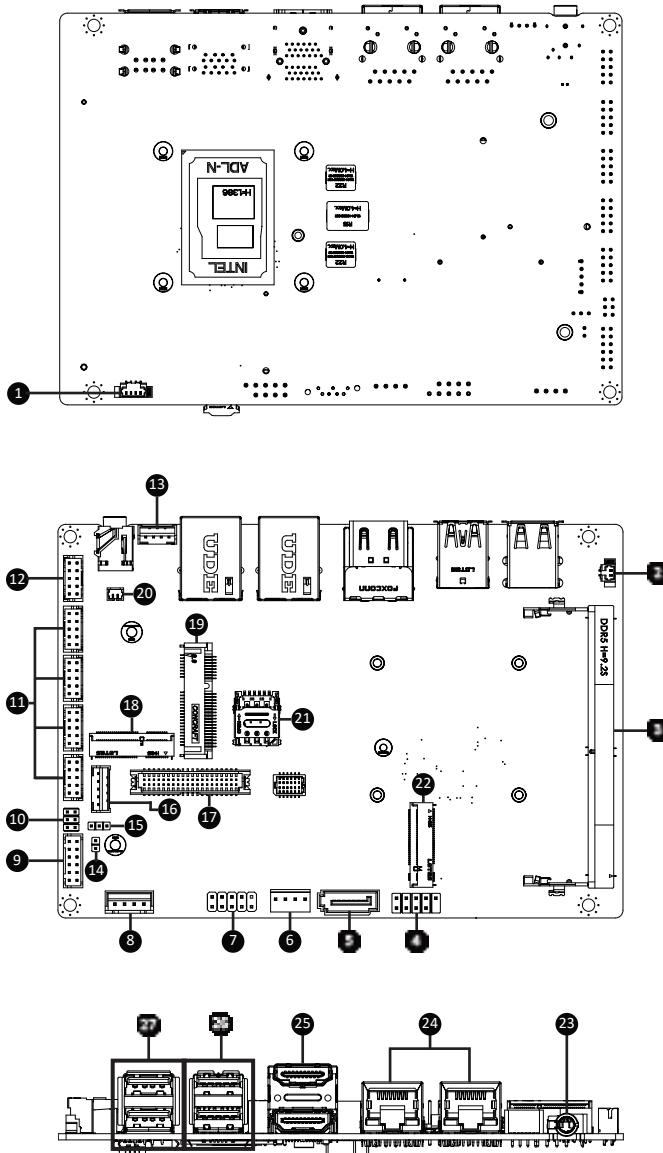
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Chapter 2

Chapter 2 – Hardware Information

2.1 Jumpers and Connectors

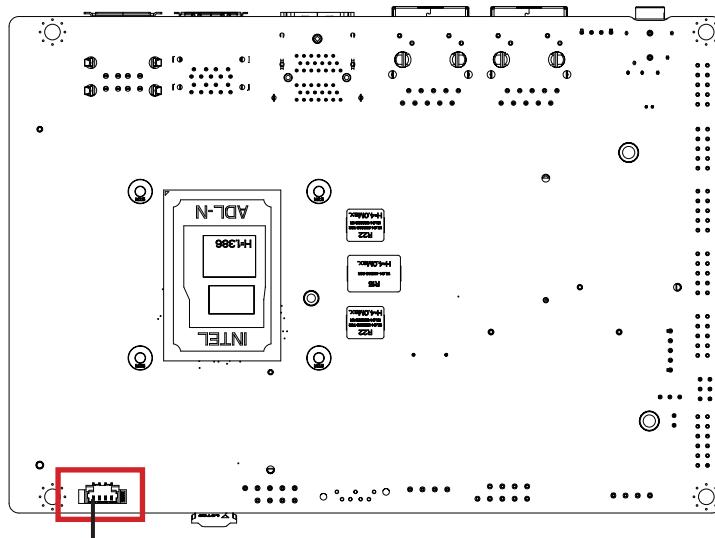


| No | Code | Description |
|----|------------------------------|---|
| 1 | FAN | FAN connector |
| 2 | BATTERY | Battery cable connector |
| 3 | SODIMMA | DDR5 SO-DIMM socket |
| 4 | FUSB20 | USB 2.0 header |
| 5 | SATA0 | SATA 6Gb/s connector |
| 6 | SATAPW | SATA power connector |
| 7 | SYS_PANEL | Front panel header |
| 8 | DC_IN | DC IN 1x4pin power connector |
| 9 | GPIO_CNT | General Purpose input/output header |
| 10 | JCOM1 | RI# pin RI#/5V/12V Select jumper for COM1 port |
| 11 | COM1 COM2 COM3 COM4 | Serial port header COM1 : RS-232/422/485 & RI/5V/12V COM2 : RS-232/422/485 COM3, COM4 : RS-232 |
| 12 | FP_AUDIO | Front panel audio header |
| 13 | SPKR | Speaker out connector |
| 14 | ME | ME Disable jumper |
| 15 | AT_CN | AT/ATX mode select jumper |
| 16 | BKL_CN | Backlight Control connector |
| 17 | LVDS | LVDS connector |
| 18 | M2E | M.2 slot, 2230 E-key |
| 19 | MPCIE | Mini-PCIe slot |
| 20 | BUZZER | Buzzer header |
| 21 | SIM_CARD | 3G/4G SIM Slot |

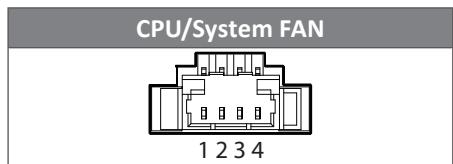
| No | Code | Description |
|----|------------|----------------------------------|
| 22 | M2M | M.2 slot, 2280 M-key |
| 23 | HP | Line out connector |
| 24 | LAN1, LAN2 | LAN connector |
| 25 | HDMI_21 | HDMI connector |
| 26 | USB32 | USB 3.2 Gen 2x1 connector |
| 27 | USB2 | USB 2.0 connector |

2.2.1 FAN (FAN connector)

1



Pin 1

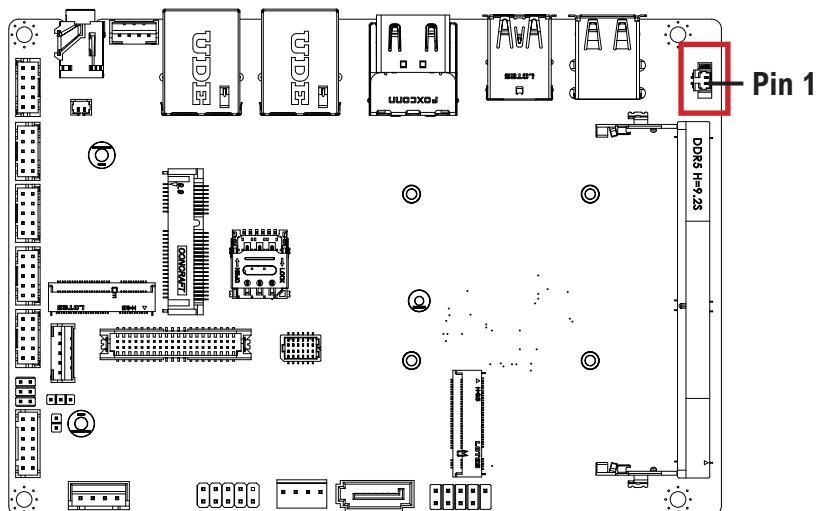


| Connector PN | Vendor |
|-----------------------------|------------|
| 85205-0470N | ACES |
| A1250WV-S-04PC | JOINT-TECH |
| Connector type | |
| 1x4pin header, pitch 1.25mm | |

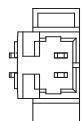
| Pin No. | Definition |
|---------|---------------|
| 1 | GND |
| 2 | 12V |
| 3 | Detect |
| 4 | Speed Control |

2.2.2 BATTERY

2



Battery Cable Connector



2
1

Connector PN

85205-0270L

Vendor

ACES

A1250WV-S-02PC

JOINT-TECH

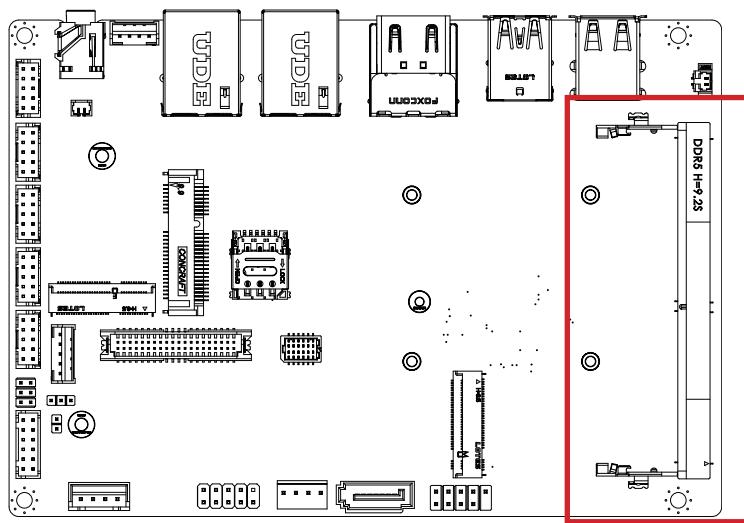
Connector type

1x2pin header, pitch 1.25mm

| Pin No. | Definition |
|---------|------------|
| 1 | 3V |
| 2 | GND |

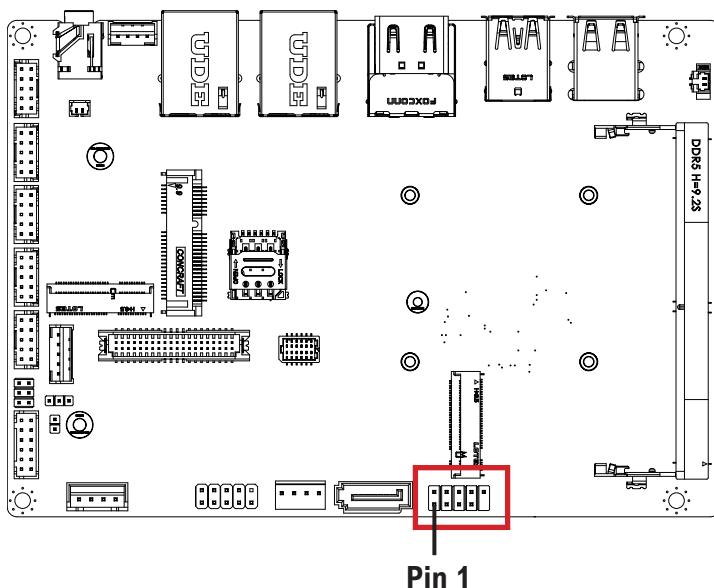
2.2.3 SODIMMA (DDR5 SO-DIMM socket)

3

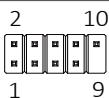


2.2.4 FUSB20 (USB 2.0 header)

4



USB 2.0 Header



Connector PN

210-92-05GB04

Vendor

PINREX

PH10R53BAZ009

HORNGTONG

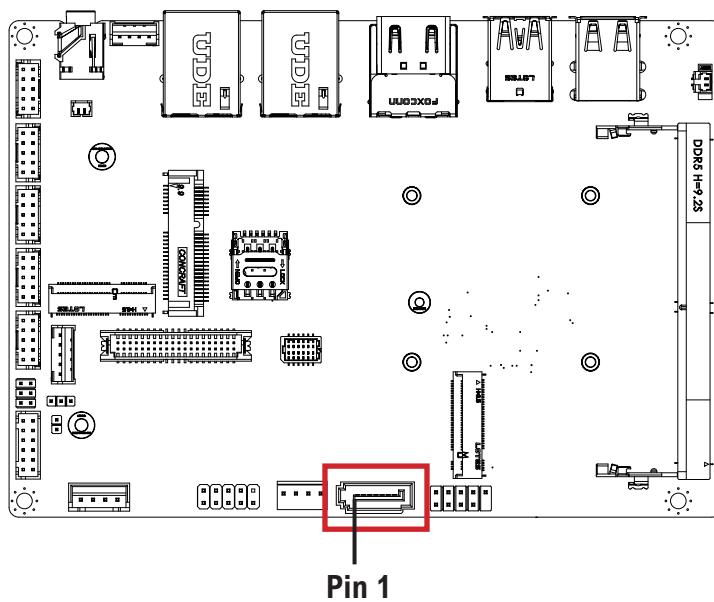
Connector type

2x5pin header, pitch 2.54mm

| 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 |

2.2.5 SATA0 (SATA 6Gb/s Connector)

5



SATA 6Gb/s Connector



Connector PN

WAT3M-07A1G3BU4W

Vendor

WINWIN

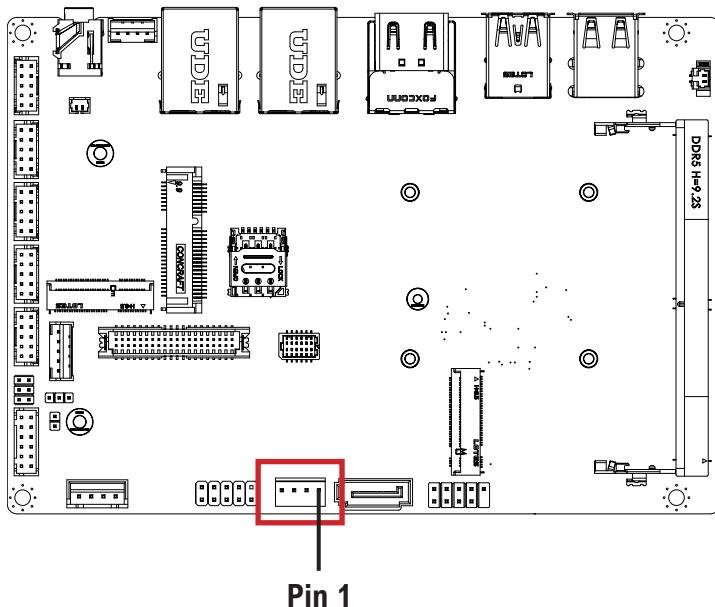
ABA-SAT-054-S15

LOTES

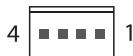
| Pin No. | Definition |
|---------|------------|
| 1 | GND |
| 2 | TXp |
| 3 | TXn |
| 4 | GND |
| 5 | RXn |
| 6 | RXp |
| 7 | GND |

2.2.6 SATAPW (SATA power connector)

6



Hard Disk Power Connector



Connector PN

743-91-045W00

Vendor

PINREX

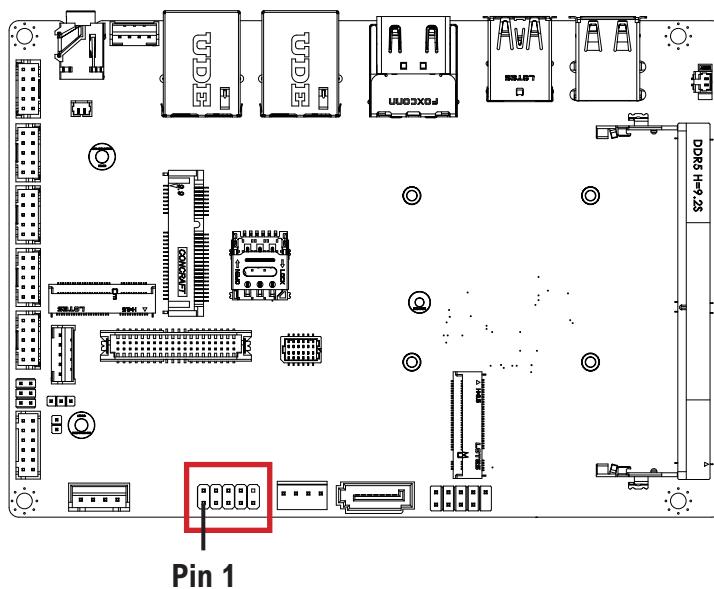
Connector type

1x4pin header, pitch 2.54mm

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

2.2.7 SYS_PANEL (Front panel header)

7



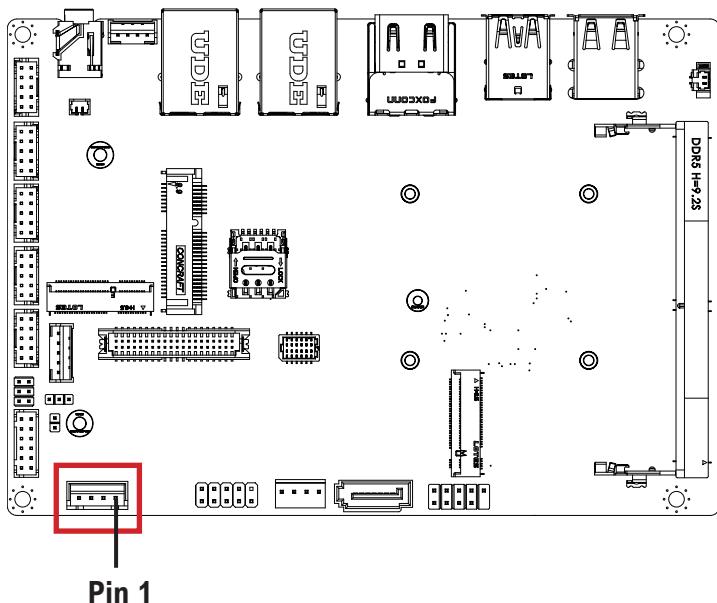
| System Panel Header | |
|---------------------|----|
| 2 | 10 |
| 1 | 9 |

| Connector PN | Vendor |
|-----------------------------|--------|
| 210-92-05GW5W | PINREX |
| Connector type | |
| 2x5pin header, pitch 2.54mm | |

| Pin No. | Definition |
|---------|----------------|
| 1 | HDD LED_p |
| 2 | Power LED_p |
| 3 | HDD LED_n |
| 4 | Power LED_n |
| 5 | GND |
| 6 | Power button_p |
| 7 | Reset Button |
| 8 | Power button_n |
| 9 | No Connect |
| 10 | No Pin |

2.2.8 DC_IN (DC IN 1x4pin power connector)

8



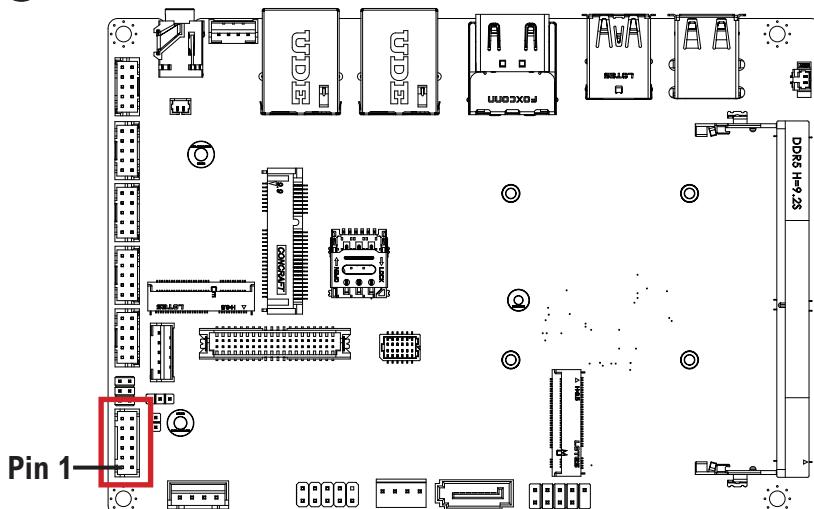
| DC in Connector |
|-----------------|
| DC_IN |
| 4 o o o □ 1 |

| Connector PN | Vendor |
|----------------------------|--------|
| 753-81-04TW00 | PINREX |
| Connector type | |
| 1x4pin header, pitch 2.5mm | |

| Pin No. | Definition |
|---------|------------|
| 1 | GND |
| 2 | DC in |
| 3 | DC in |
| 4 | GND |

2.2.9 GPIO_CNT (General Purpose input/output header)

9



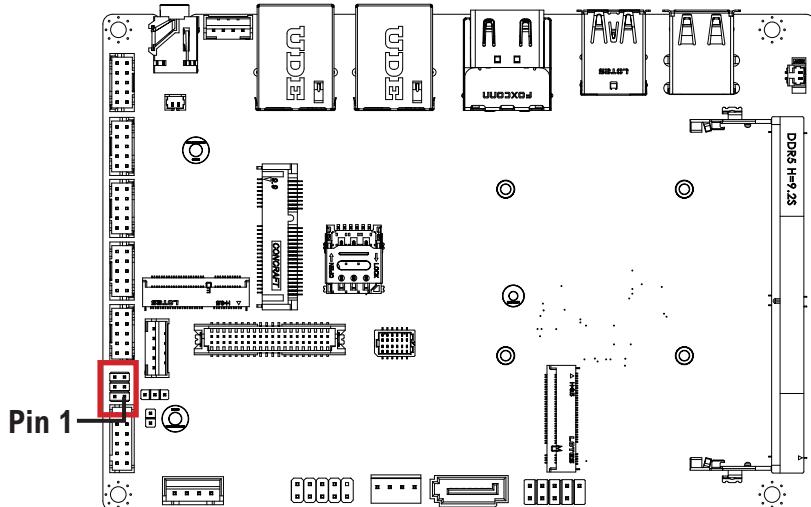
| GPIO Connector | |
|----------------|----|
| 11 | 12 |
| 1 | 2 |

| 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 |

| Pin No. | Definition | Connector PN | Vendor | Connector type | |
|---------|------------|---------------|--------|----------------------------|--|
| 11 | 5V | 725-81-12TW00 | PINREX | 2x6pin header, pitch 2.0mm | |
| 12 | GND | | | | |

2.2.10 JCOM1 (RI# pin RI#/5V/12V Select jumper for COM1 Port)

10

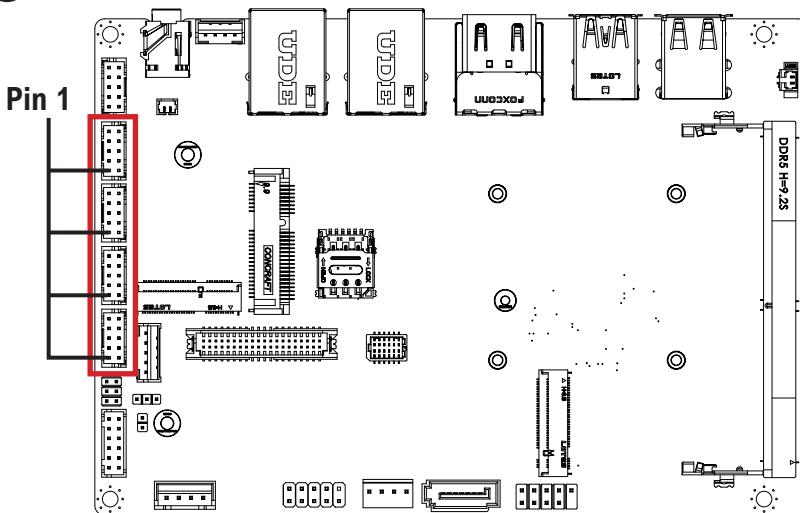


| JCOM1 Jumper Select | |
|---|-------------------------------|
|  | 1-2 Close: 5V (Power COM) |
|  | 3-4 Close: RI (Stand COM) |
|  | 5-6 Close: 12V (Power COM) |

| Connector PN | Vendor |
|----------------------------|-----------|
| 220-97-03GB01 | PINREX |
| PH06N53BAZ000 | HORNGTONG |
| Connector type | |
| 2x3pin header, pitch 2.0mm | |

2.2.11 COM1, COM2, COM3, COM4 (Serial port header)

11



Serial Port Cable Connector



Connector PN

Vendor

725-81-10TW00

PINREX

Connector type

2x5pin header, pitch 2.0mm

Note :

COM1 : Support RS-232/422/485 & RI/5V/12V
For RI/5V/12V jumper setting, please see
P. 29

COM2 : Support RS-232/422/485

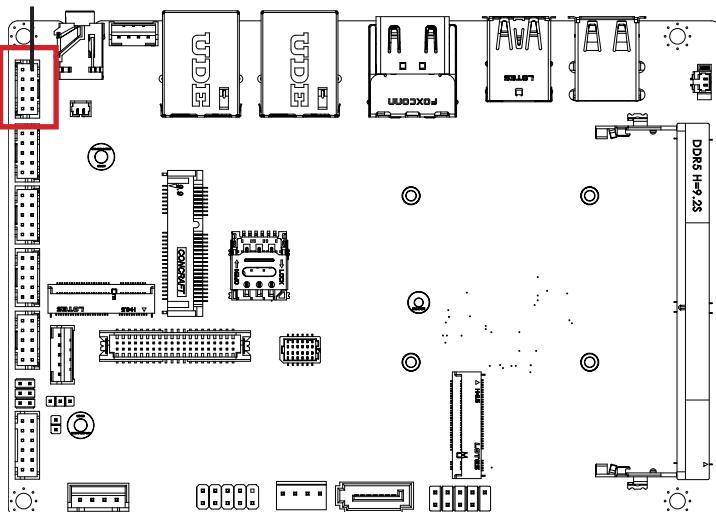
COM3, COM4 : Support RS-232 only

| 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 | - | - |

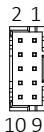
2.2.12 FP_AUDIO (Front panel audio header)

12

Pin 1



Front panel audio Connector



Connector PN

Vendor

725-81-10TW00

PINREX

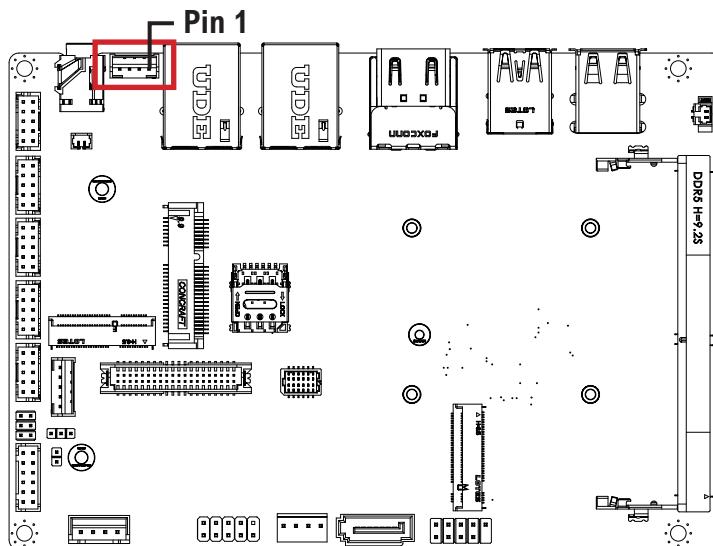
Connector type

2x5pin header, pitch 2.0mm

| Pin No. | Definition |
|---------|------------------|
| 1 | MIC-LEFT |
| 2 | GND |
| 3 | MIC-RIGHT |
| 4 | Detect |
| 5 | LINE-RIGHT |
| 6 | GND |
| 7 | JACKSENCE Detect |
| 8 | NC |
| 9 | LINE-LEFT |
| 10 | GND |

2.2.13 SPKR (Speaker out connector)

13



Speaker out connector



Connector PN

A2001WV-04P146

Vendor

JOINT-TECH

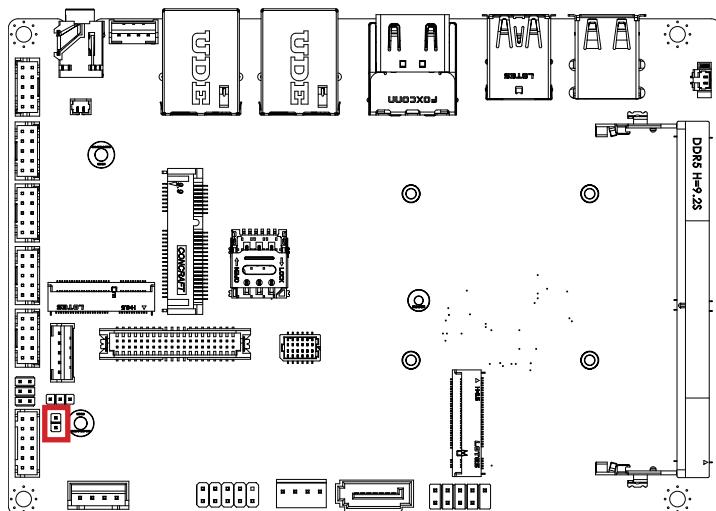
Connector type

1x4pin header, pitch 2.0mm

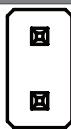
| Pin No. | Definition |
|---------|----------------|
| 1 | Speaker Out L+ |
| 2 | Speaker Out L- |
| 3 | Speaker Out R- |
| 4 | Speaker Out R+ |

2.2.14 ME (ME Disable jumper)

14



ME Disable Connector



Connector PN

220-96-02GBK1

Vendor

PINREX

Connector type

1x2pin header, pitch 2.0mm

ME Disable jumper



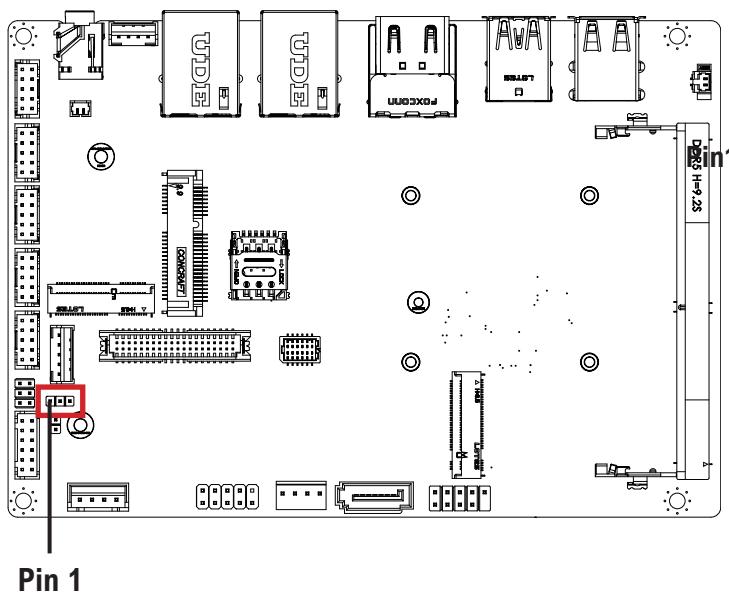
Enable (Default setting)



Disable

2.2.15 AT_CN (AT/ATX mode select jumper)

15


AT/ATX mode select jumper

| | |
|------|--|
| | 1-2 Close : AT mode. |
| 1 3 | 2-3 Close : ATX mode. (Default setting) |

Connector PN

220-96-03GB01

Vendor

PINREX

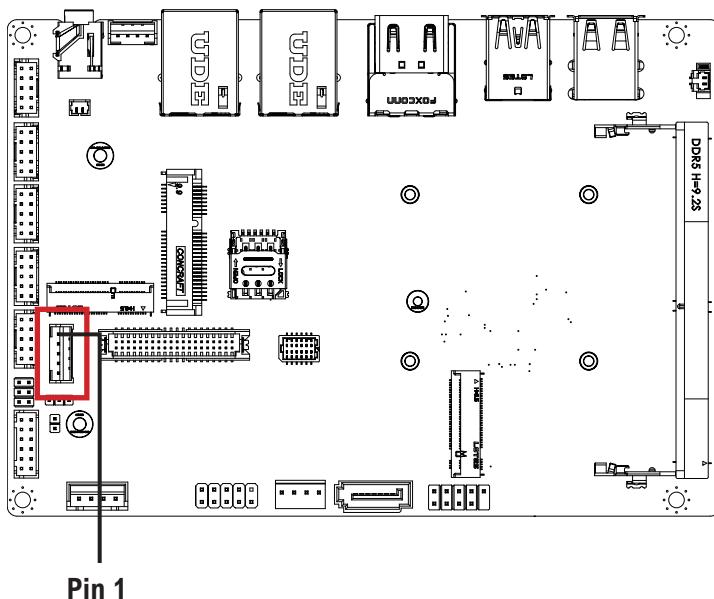
Connector type

1x3pin header, pitch 2.0mm

| Pin No. | Definition |
|---------|------------|
| 1 | AT MODE |
| 2 | Detect |
| 3 | ATX MODE |

2.2.16 BKL_CN (Backlight Control connector)

16

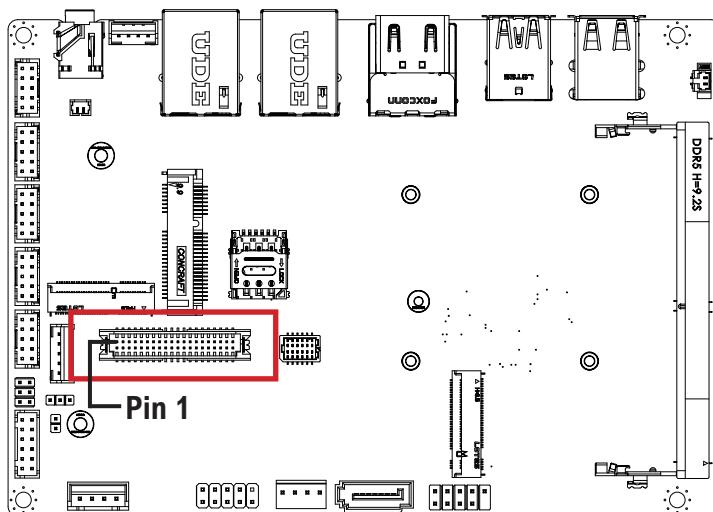


| Backlight Control connector | Connector PN | Vendor |
|--|---------------|----------------------------|
|  | 721-81-05TW00 | PINREX |
| Connector type | | 1x5pin header, pitch 2.0mm |
| | | |

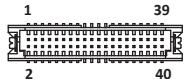
| Pin No. | Definition |
|---------|-------------------|
| 1 | 5V (optional 12V) |
| 2 | PWM |
| 3 | Backlight Enable |
| 4 | GND |
| 5 | 12V |

2.2.17 LVDS (LVDS connector)

17



LVDS Connector



| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 17 | A3- | 37 | GND |
| 18 | A2- | 38 | GND |
| 19 | GND | 39 | 12V |
| 20 | GND | 40 | 12V |

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.

| 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 | SPEC0 | 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- |

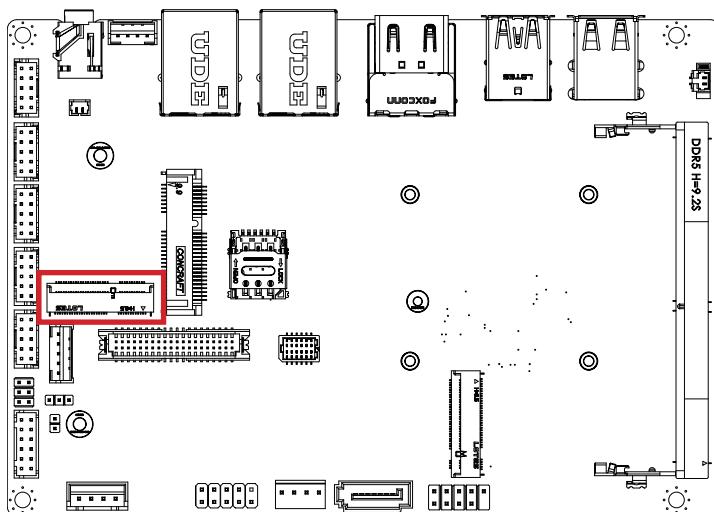
| Connector PN | Vendor |
|---------------------|------------|
| 712-76-40GWE0 | PINREX |
| A1252WV-SF-2X20PD01 | JOINT-TECH |

| Connector type |
|------------------------------|
| 2x20pin header, pitch 1.25mm |

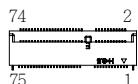
Note: *The LVDS output connector of the unit is only intended to be connected to an UL/IEC/EN approval equipment with fire enclosure.

2.2.18 M.2 E slot, 2230 E-key

18



M.2 E Key Connector



| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 1 | GND | 2 | 3V |
| 3 | USB_Dp | 4 | 3V |
| 5 | USB_Dn | 6 | NC |
| 7 | GND | 8 | NC |
| 9 | NC | 10 | NC |
| 11 | NC | 12 | NC |
| 13 | NC | 14 | NC |
| 15 | NC | 16 | NC |
| 17 | NC | 18 | GND |
| 19 | NC | 20 | NC |
| 21 | NC | 22 | NC |
| 23 | NC | | |

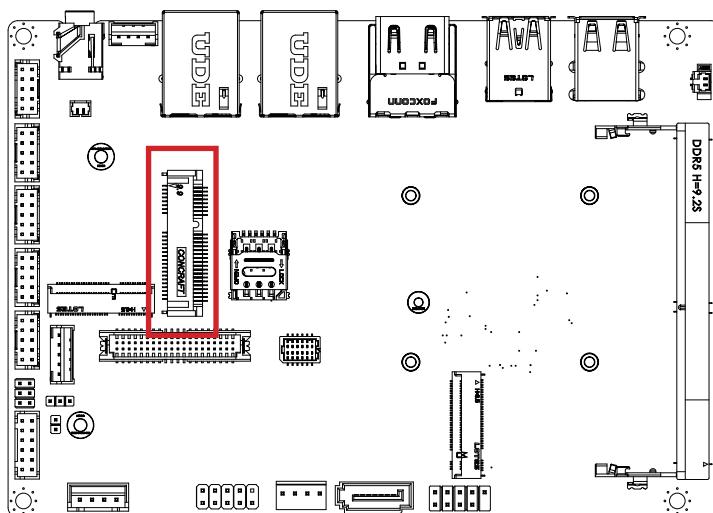
| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 33 | GND | 32 | NC |
| 35 | PCIE1 TXp | 34 | NC |
| 37 | PCIE1 TXn | 36 | NC |
| 39 | GND | 38 | NC |

| | | | |
|----|-----------|----|--------------|
| 41 | PCIE1 RXp | 40 | NC |
| 43 | PCIE1 RXn | 42 | NC |
| 45 | GND | 44 | NC |
| 47 | CLK_Dp | 46 | NC |
| 49 | CLK_Dn | 48 | NC |
| 51 | GND | 50 | SUSCLK |
| 53 | CLK_REQ | 52 | PCIE_RST |
| 55 | PCIE_WAKE | 54 | BT_Disable |
| 57 | GND | 56 | WLAN_DISABLE |
| 59 | NC | 58 | NC |
| 61 | NC | 60 | NC |
| 63 | GND | 62 | NC |
| 65 | NC | 64 | NC |
| 67 | NC | 66 | PE Reset |
| 69 | GND | 68 | NC |
| 71 | NC | 70 | NC |
| 73 | NC | 72 | 3V |
| 75 | GND | 74 | 3V |

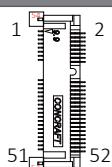
| Connector PN | Vendor |
|------------------|------------|
| APCI0095-P002A | LOTES |
| 80152-8521 | BELLWETHER |
| 2E0BC21-S85BE-LH | FOXCONN |

2.2.19 MPCIE (Mini PCIe slot)

19



Mini PCIe Connector



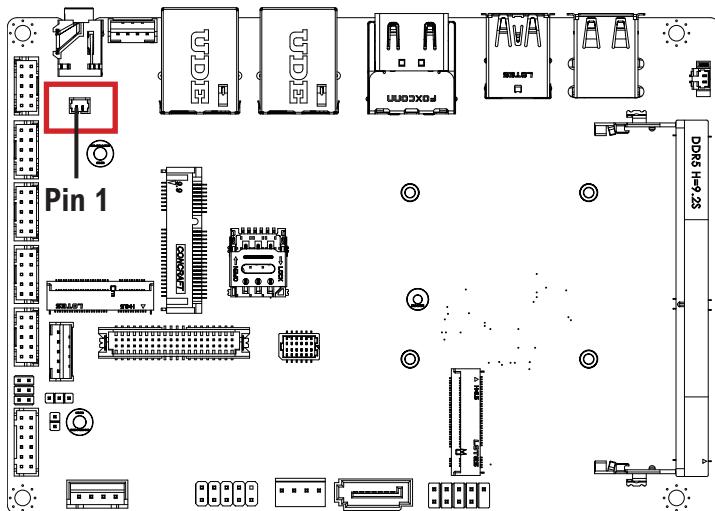
| Pin No. | Definition | Pin No. | Definition |
|---------|--------------------|---------|--------------|
| 1 | PCIE WAKE | 2 | 3.3V |
| 3 | NC | 4 | GND |
| 5 | NC | 6 | NC |
| 7 | PCIE Clock Request | 8 | SIM VCC |
| 9 | GND | 10 | SIM DATA |
| 11 | PCIE Clock n | 12 | SIM Clock |
| 13 | PCIE Clock p | 14 | SIM Reset |
| 15 | GND | 16 | VPP |
| 17 | NC | 18 | GND |
| 19 | NC | 20 | WLAN_DISABLE |
| 21 | GND | 22 | Reset |

| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 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 |
| 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 |
| 53 | GND | 54 | GND |

| Connector PN | Vendor |
|-----------------|---------|
| AS0B221-S99Q-7H | FOXCONN |

2.2.20 BUZZER (Buzzer header)

20



Buzzer header



Connector PN

712-71-02TW01

Vendor

PINREX

A1250WV-02P

JOINT-TECH

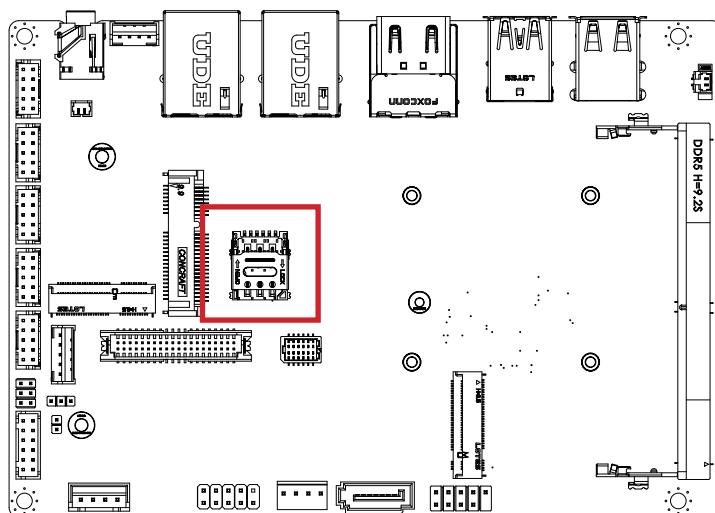
Connector type

1x2pin header, pitch 1.25mm

| Pin No. | Definition |
|---------|------------|
| 1 | Buzzer |
| 2 | 5V |

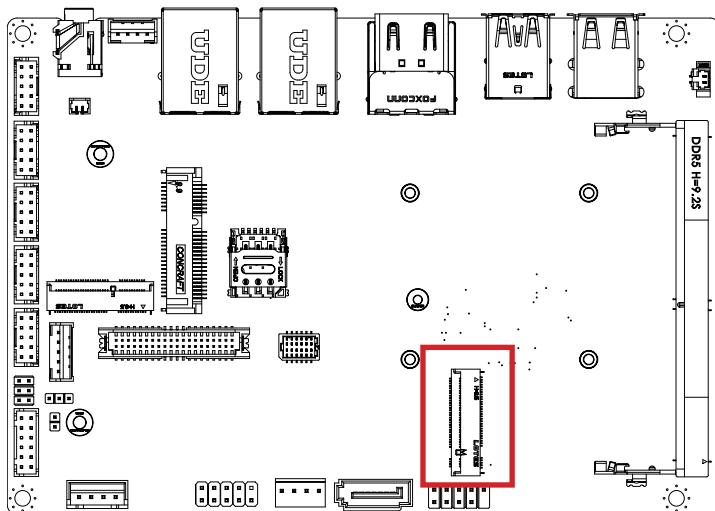
2.2.21 SIM_CARD (3G/4G SIM Slot)

21

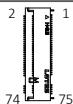


2.2.22 M2M (M.2 Slot, 2280 M-Key)

22



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 | SSD LED |
| 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 | PCIE1 RXn | 30 | NC |
| 31 | PCIE1 RXp | 32 | NC |
| 33 | GND | 34 | NC |

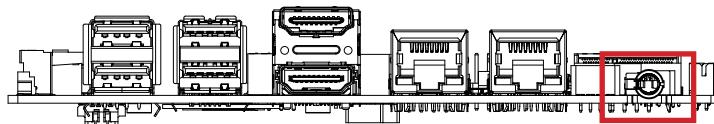
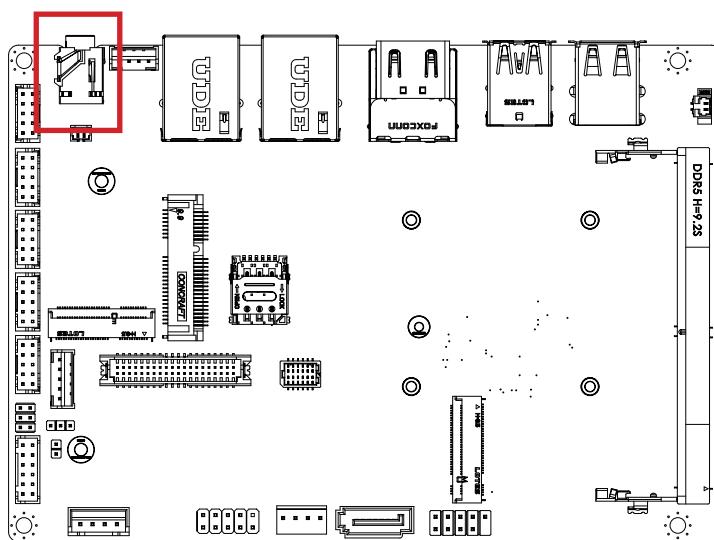
| Pin No. | Definition | Pin No. | Definition |
|---------|--------------|---------|--------------------|
| 35 | PCIE1 TXn | 36 | NC |
| 37 | PCIE1 TXp | 38 | NC |
| 39 | GND | 40 | NC |
| 41 | PCIE0 RXn | 42 | NC |
| 43 | PCIE0 RXp | 44 | NC |
| 45 | GND | 46 | NC |
| 47 | PCIE0 TXn | 48 | NC |
| 49 | PCIE0 TXp | 50 | PCI Reset |
| 51 | GND | 52 | PCIE Clock Request |
| 53 | PCIE Clock n | 54 | NC |
| 55 | PCIE Clock p | 56 | NC |
| 57 | GND | 58 | NC |

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

| Connector PN | Vendor |
|--------------|------------|
| 80159-8521 | BELLWETHER |

2.2.23 HP (LINE out connector)

23

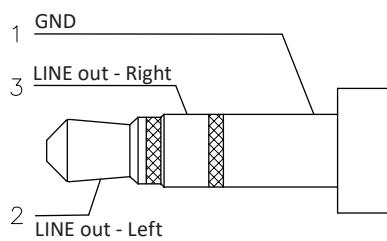
**Audio Connector****Connector PN**

WTJ-035-47ABZ1

Vendor

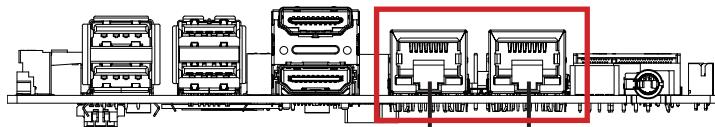
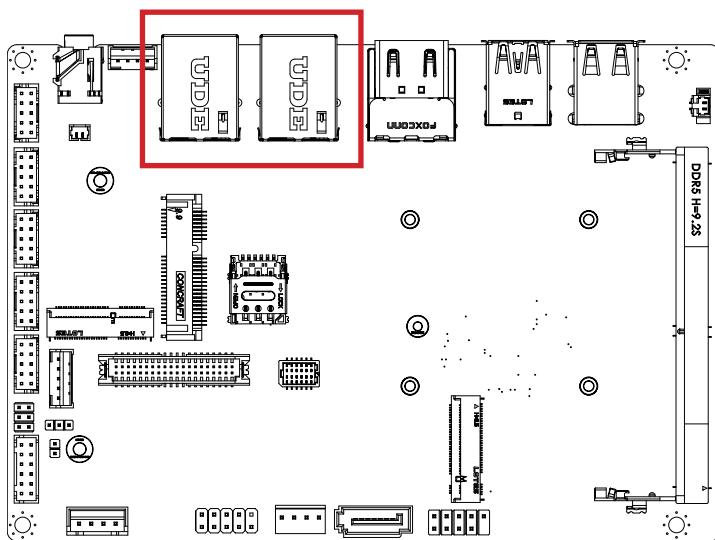
KYOYAKU

| Pin No. | Definition |
|----------------|-------------------|
| 1 | GND |
| 2 | LINE out - Left |
| 3 | LINE out - Right |
| 4 | JackSence |
| 5 | GND |
| 6 | GND |
| 7 | NC |



2.2.24 LAN1, LAN2 (LAN connector)

24



LAN Connector



LAN 1 LAN 2

State Description

Yellow On 2.5Gbps data rate

Green On 1Gbps data rate

Off 100M & 10Mbps data rate

Connector PN

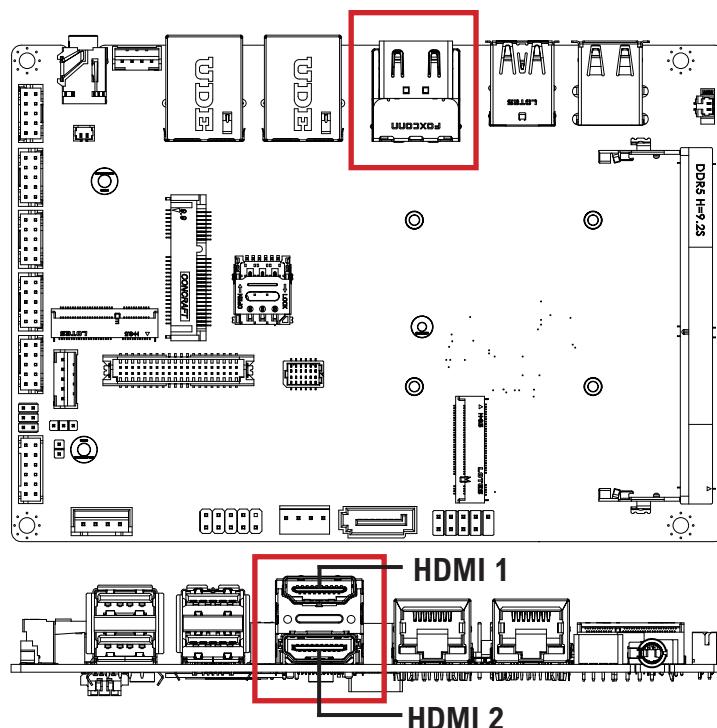
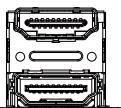
Vendor

RB1-GB-0010 UDE

| Pin No. | Definition |
|---------|------------|
| 1 | TX1+ |
| 2 | TX1- |
| 3 | TX2+ |
| 6 | TX2- |
| 4 | TX3+ |
| 5 | TX3- |
| 7 | TX4+ |
| 8 | TX4- |

2.2.25 HDMI_21 (HDMI connector)

25

**HDMI Connector**

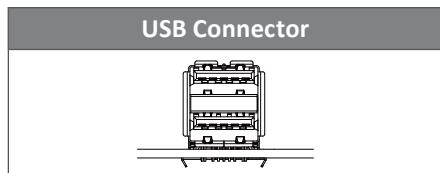
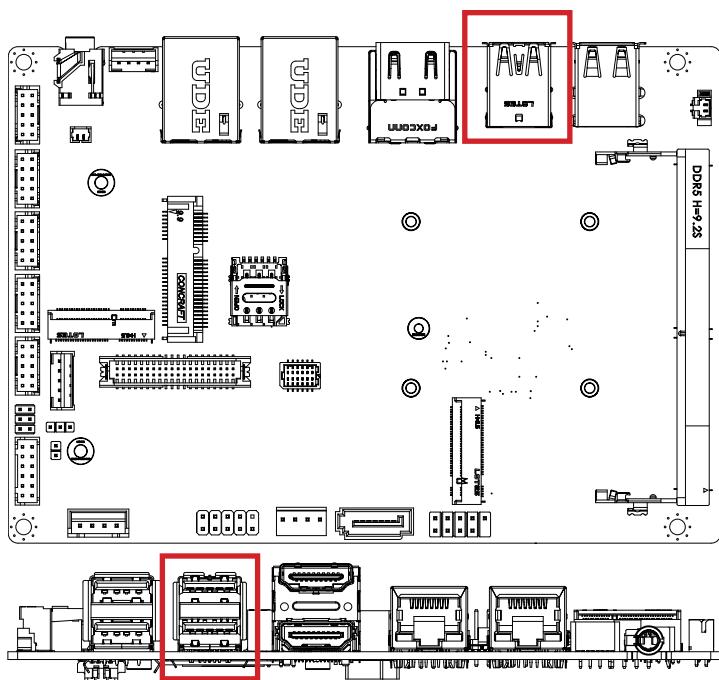
| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 1 | TX2p | 20 | TX2p |
| 2 | GND | 21 | GND |
| 3 | TX2n | 22 | TX2n |
| 4 | TX1p | 23 | TX1p |
| 5 | GND | 24 | GND |
| 6 | TX1n | 25 | TX1n |
| 7 | TX0p | 26 | TX0p |
| 8 | GND | 27 | GND |
| 9 | TX0n | 28 | TX0n |
| 10 | CLKp | 29 | CLKp |

| Pin No. | Definition | Pin No. | Definition |
|---------|-----------------|---------|-----------------|
| 11 | GND | 30 | GND |
| 12 | CLKn | 31 | CLKn |
| 13 | NC | 32 | NC |
| 14 | NA | 33 | NA |
| 15 | DDC Clock | 34 | DDC Clock |
| 16 | DDC Data | 35 | DDC Data |
| 17 | GND | 36 | GND |
| 18 | 5V | 37 | 5V |
| 19 | Hot Plug Detect | 38 | Hot Plug Detect |

| Connector PN | Vendor |
|-----------------|---------|
| QJ11191-DFB1-4F | FOXCONN |

2.2.26 USB32 (USB 3.2 Gen 2x1 connector)

26

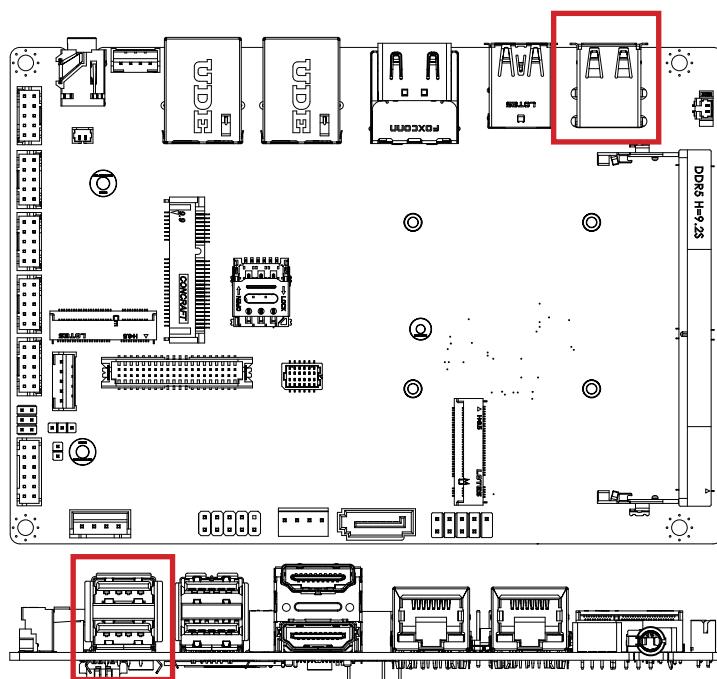
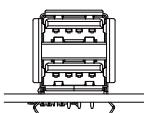


| Connector PN | Vendor |
|-----------------|--------|
| 18-A5950-6A33-A | TCONN |

| Pin No. | Definition | Pin No. | Definition |
|---------|------------|---------|------------|
| 1 | 5V | 10 | 5V |
| 2 | USB_Dn | 11 | USB_Dn |
| 3 | USB_Dp | 12 | USB_Dp |
| 4 | GND | 13 | GND |
| 5 | USB3_RXn | 14 | USB3_RXn |
| 6 | USB3_RXp | 15 | USB3_RXp |
| 7 | GND | 16 | GND |
| 8 | USB3_TXn | 17 | USB3_TXn |
| 9 | USB3_TXp | 18 | USB3_TXp |

2.2.27 USB2 (USB 2.0 connector)

27

**USB Connector****Connector PN**

| | |
|-----------------|---------|
| UB1112C-8FDE-4F | FOXCONN |
| 185-0820112-GB | YSELEC |

Vendor

| Pin No. | Definition |
|---------|------------|
| 1 | 5V |
| 2 | D1n |
| 3 | D1p |
| 4 | GND |
| 5 | 5V |
| 6 | D2n |
| 7 | D2p |
| 8 | GND |

Chapter 3

Chapter 3 – BIOS

3.1 Introduction

BIOS (Basic input/output system) provides hardware detailed information and boot-up options, which include firmware to control, set-up and test all hardware settings. Therefore, BIOS is the communication bridge between OS/application software and hardware.

3.1.1 How to Entering into BIOS menu

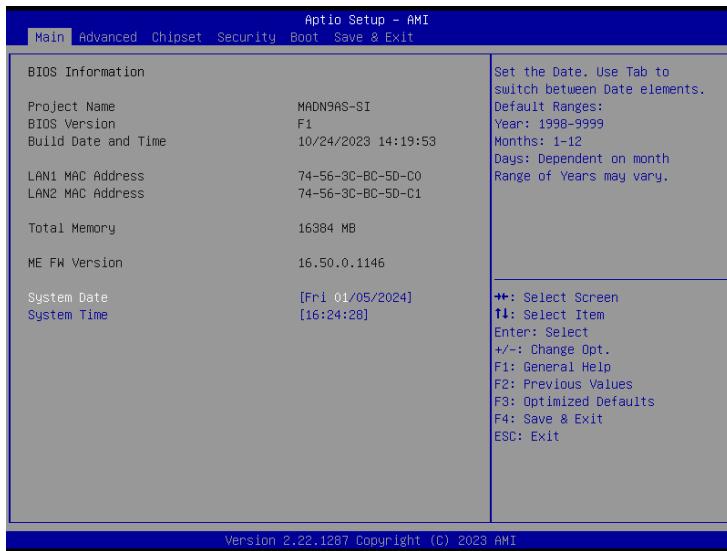
Once the system is power on, press the key as soon as possible to access into BIOS Setup program.

3.1.2 Function Keys to setup in BIOS Setup program

| Function keys | Description |
|---------------|--|
| →← | Select Screen |
| ↑↓ | Select Item |
| Enter | Execute command or enter the submenu |
| + | Increase the numeric value or make changes |
| — | Decrease the numeric value or make changes |
| F1 | General Help |
| F2 | Previous Values |
| F3 | Load Optimized Defaults Settings |
| F4 | Save changes & Exit the BIOS Setup program |
| ESC | Exit the BIOS Setup program |

3.2 The Main Menu

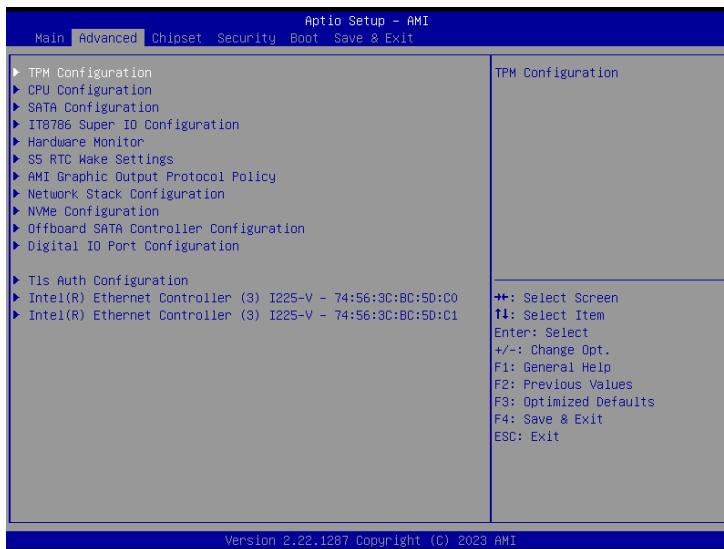
The main menu shows the basic system information.
Use arrow keys to move among the items.



| Items | Description |
|---------------------|---|
| Project Name | Shows Project name information |
| BIOS Version | Shows the BIOS version of the system |
| Build Date and Time | Shows the Build Date and Time when the BIOS was created. |
| LAN1 MAC Address | Shows LAN1 MAC Address information |
| LAN2 MAC Address | Shows LAN2 MAC Address information |
| Total Memory | Shows the total memory size of the installed memory |
| ME FW version | Shows ME firmware version |
| System Date | Set the Date for the system (Format : Week - Month - Day - Year) |
| System Time | Set the time for the system (Format : Hour - Minute - Second) |

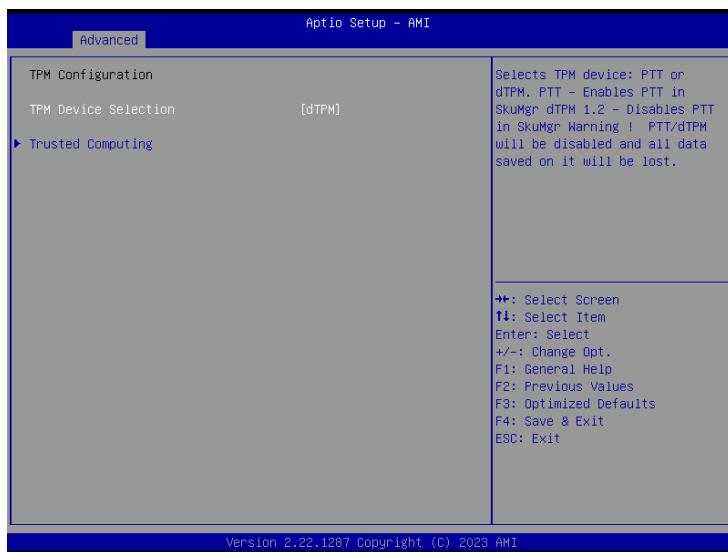
3.3 Advanced

The Advanced menu is to configure the functions of hardware settings through submenu. Use arrow keys to move among the items, and press <Enter> to access into the related submenu.



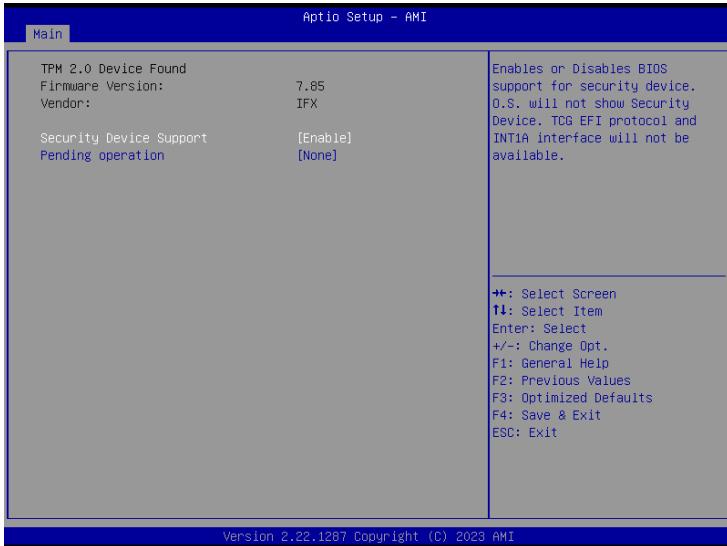
3.3.1 TPM Configuration

Use TPM Configuration submenu to choose TPM interface.



| Item | Description |
|----------------------|---|
| TPM Device Selection | PTT : Internal TPM dTPM : External TPM (When using External TPM module or having TPM chip on MB) (Default setting) |

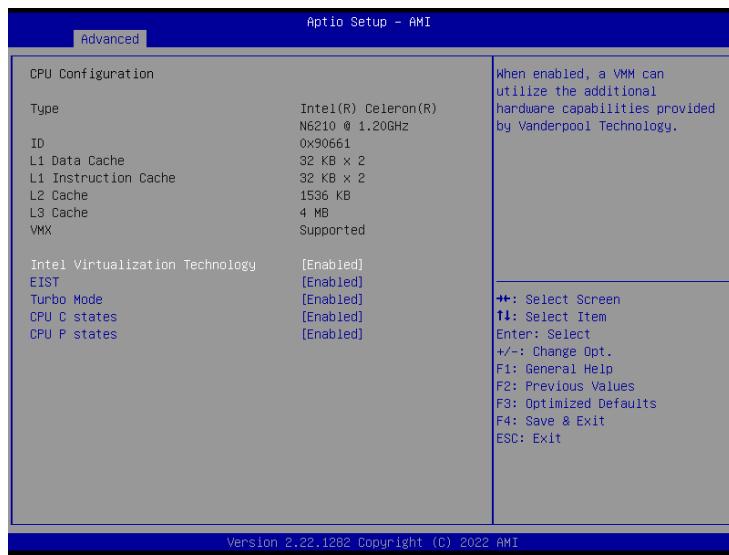
Trusted Computing : Shows TPM information, and TPM module configuration setting.



| Item | Description |
|-------------------------|---|
| Security Device support | Enabled : Enables TPM feature (Default setting) Disabled : Disables TPM feature |
| Pending operation | None : No execution will be conducted (Default setting) TPM clear : Set to clear data on TPM |

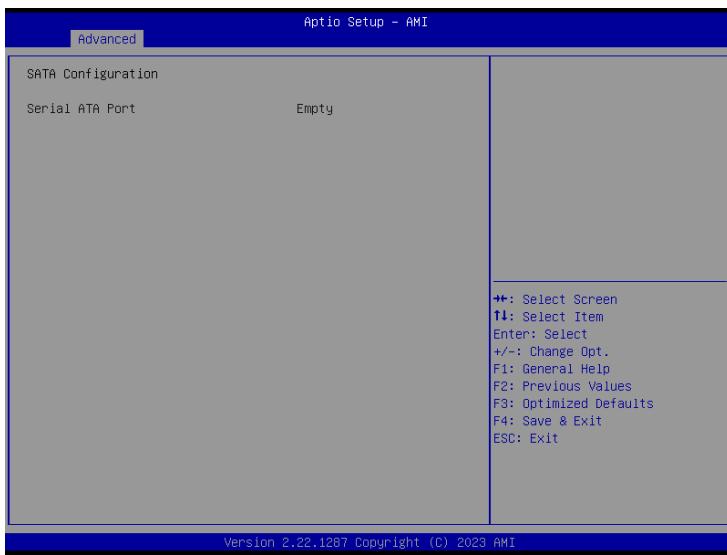
3.3.2 CPU Configuration

This submenu shows detailed CPU informations.



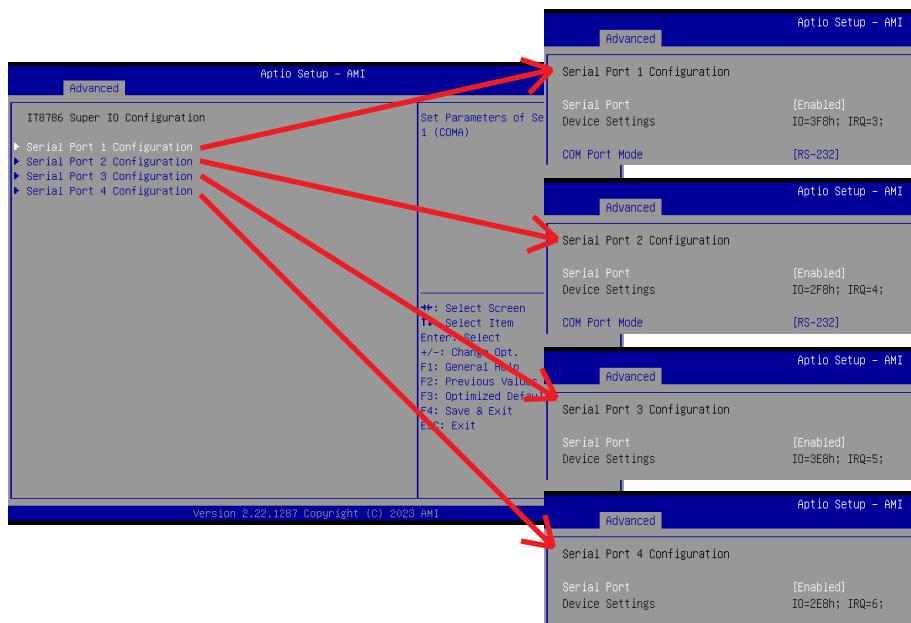
| Item | Description |
|--|--|
| Intel Virtualization Technology | Virtualization enhanced by Intel® Virtualization Technology will allow a platform to run multiple operating systems and applications in independent partitions. With virtualization, one computer system can function as multiple virtual systems. Enabled : Enables Intel Virtualization Technology (Default setting) Disabled : Disables Intel Virtualization Technology |
| EIST | According to System loading, Enhanced Intel SpeedStep Technology (EIST)will automatically adjust the CPU voltage and core frequency to decrease heat and power consumption for power saving. Enabled : Enables EIST Technology (Default setting) Disabled : Disables EIST Technology |
| Turbo Mode | Enabled : Enables Turbo Mode (Default setting) Disabled : Disables Turbo Mode |
| CPU C states | Command CPU to enter into low power consumption mode when CPU is under idle mode. Enabled : Enables C states (Default setting) Disabled : Disables C states |
| CPU P states | CPU will adjust frequency depends on it's loading. Enabled : Enables CPU P states function (Default setting) Disabled : Disables CPU P states function |

3.3.3 SATA Configuration



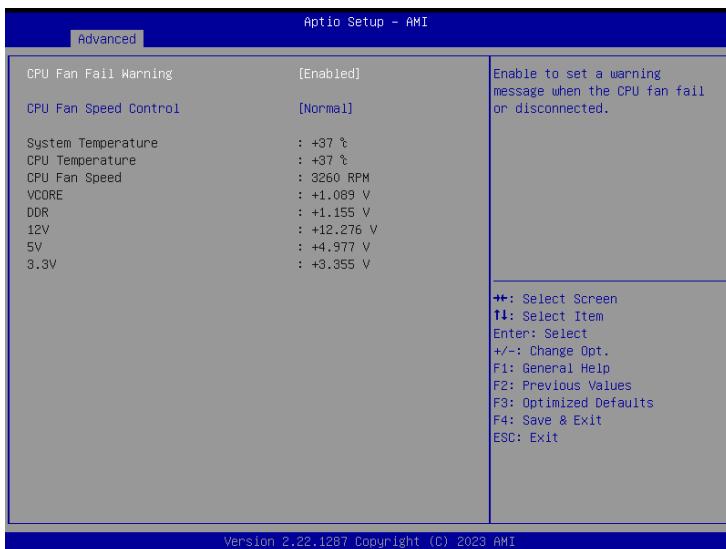
| Item | Description |
|------------------------|-------------------------------------|
| Serial ATA Port | shows 2.5" SATA HDD/SSD information |

3.3.4 IT8786 Super IO Configuration



| Item | Description |
|------------------------------------|---|
| Serial Port 1 Configuration | Press [Enter] to configure advanced items : Serial Port : Enabled : Enables allows you to configure the serial port settings Disabled : if Disabled, displays no configuration for the serial port |
| Serial Port 2 Configuration | Device settings : Display the specified Serial Port base I/O address and IRQ COM Port Mode : Choose RS-232, RS-422, or RS-485 feature |
| Serial Port 3 Configuration | Press [Enter] to configure advanced items : Serial Port : Enabled : Enables allows you to configure the serial port settings Disabled : if Disabled, displays no configuration for the serial port |
| Serial Port 4 Configuration | Device settings : Display the specified Serial Port base I/O address and IRQ |

3.3.5 Hardware Monitor



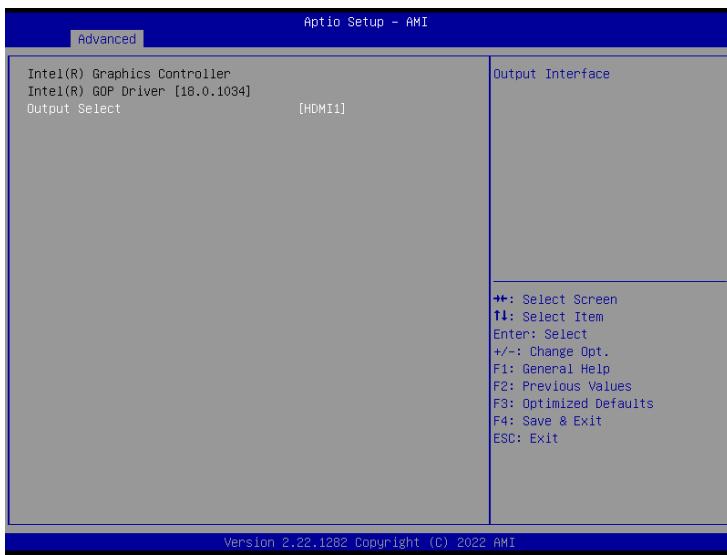
| Item | Description |
|-----------------------|--|
| CPU Fan Fail Warning | Enabled : Enables CPU FAN Fail warning alert function (Default setting) Disabled : Disables CPU FAN Fail warning alert function |
| CPU Fan Speed Control | Normal : Fan speed set by BIOS default (Default setting) Full Speed : Set Fan operates at full speed |
| System temperature | Shows current system temperature |
| CPU temperature | Shows current CPU temperature |
| CPU Fan Speed | Shows current CPU fan Speed |

3.3.6 S5 RTC Wake Settings



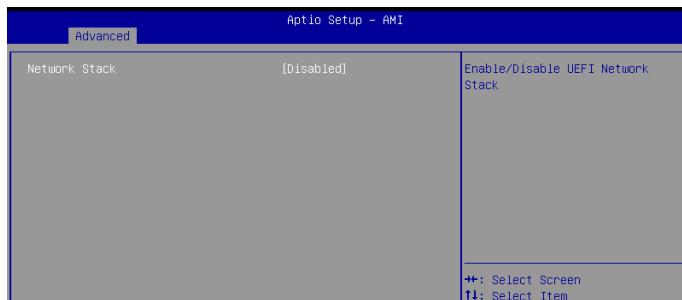
| Item | Description |
|---------------------|---|
| Wake system from S5 | Enable or Disable System to wake on a specific time. Disabled : Disables system to wake on a specific time (Default setting) Fixed Time : Enables system to wake on a specific time (Format : hr : min : sec) |

3.3.7 AMI Graphic Output Protocol Policy

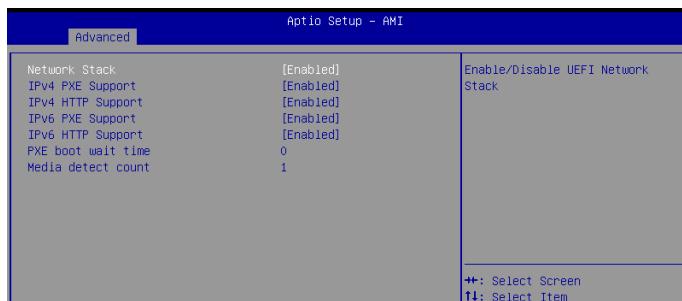


| Item | Description |
|----------------------|--|
| Output Select | Choose default monitor output when there are more than one monitor plugged on the motherboard. |

3.3.8 Network Stack Configuration



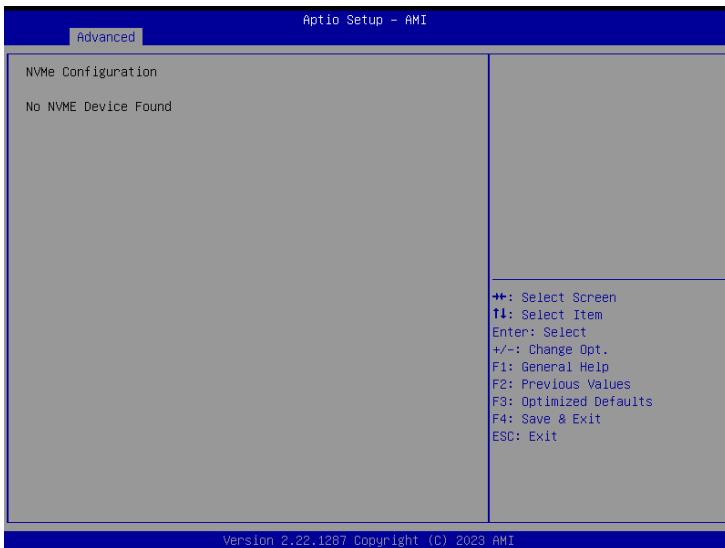
When Network stack is enabled :



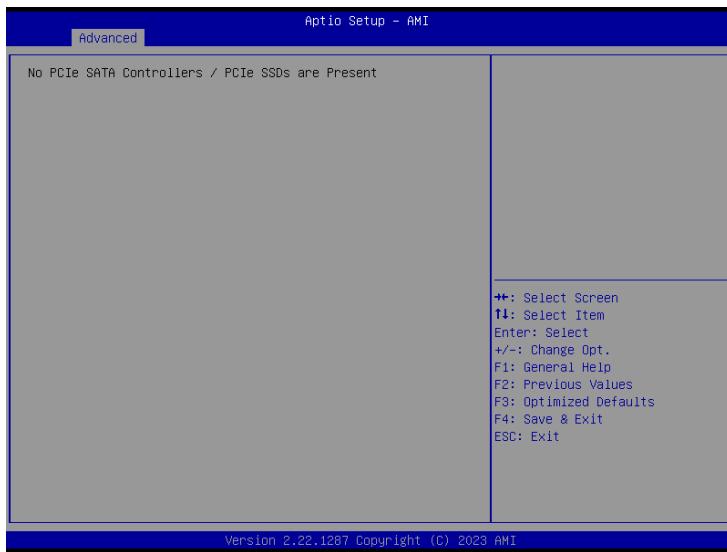
| Item | Description |
|---------------------------|---|
| Network Stack | When system is power on, install LAN driver under UEFI mode Disabled : Disables UEFI Network Stack (Default setting) Enabled : Enables UEFI Network Stack |
| IPv4 PXE Support | When Network stack is enabled : Disabled : Disables Ipv4 PXE Support Enabled : Enables Ipv4 PXE Support |
| IPv4 HTTP Support | When Network stack is enabled : Disabled : Disables Ipv6 PXE Support Enabled : Enables Ipv6 PXE Support |
| IPv6 PXE Support | When Network stack is enabled : Disabled : Disables Ipv4 PXE Support Enabled : Enables Ipv4 PXE Support |
| IPv6 HTTP Support | When Network stack is enabled : Disabled : Disables Ipv6 PXE Support Enabled : Enables Ipv6 PXE Support |
| PXE boot wait time | Wait time in seconds, or use ESC key to abort the PXE boot. |
| Media detect count | Number of times the presence of media will be checked. |

3.3.9 NVMe Configuration

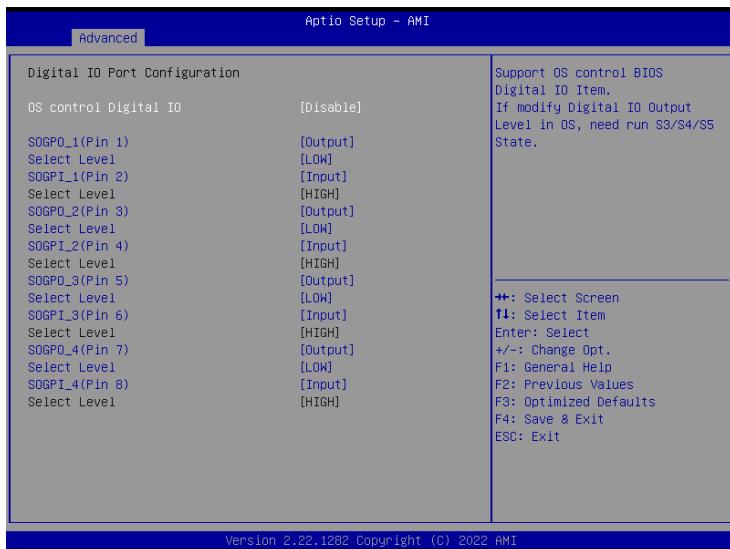
NVMe Configuration shows information when your M.2 NVMe PCIe SSD is installed.



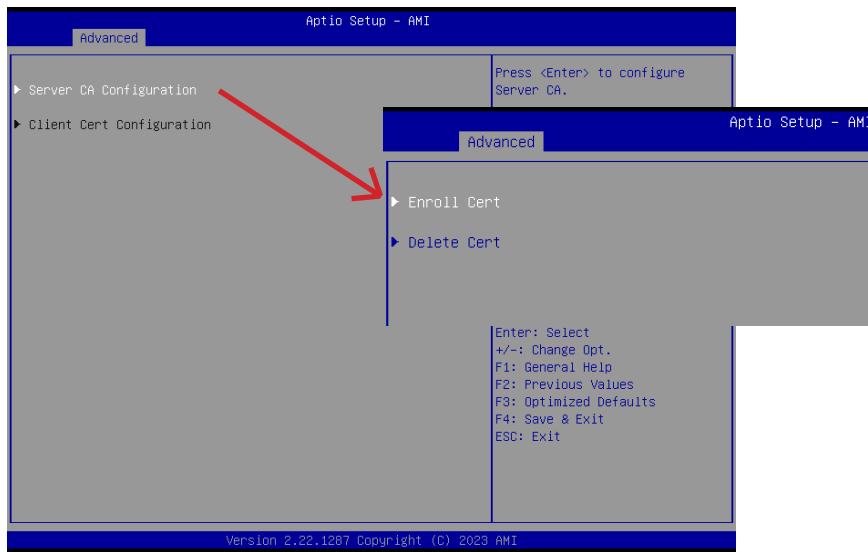
3.3.10 Offboard SATA Controller Configuration



3.3.11 Digital IO Port Configuration



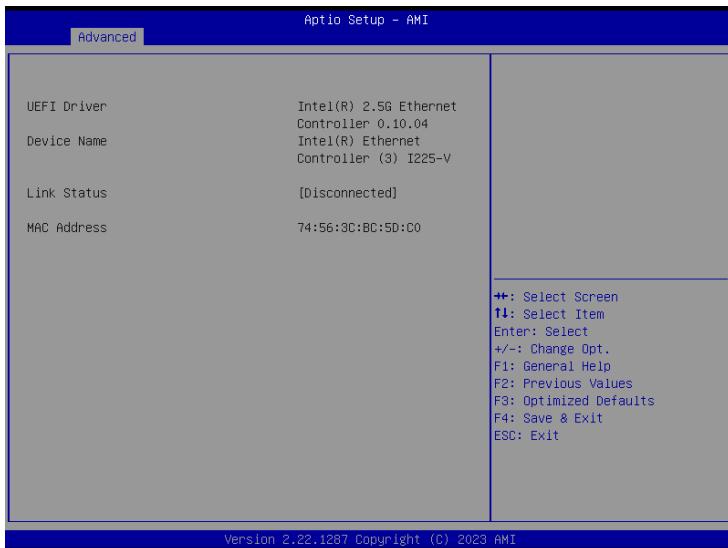
| Item | Description |
|--|---|
| OS control Digital IO | Disabled : If Digital IO Output value/level is modified in OS, they will not be memorized and kept. (Default setting) Enabled : If Digital IO Output value/level is modified in OS, they will be memorized and kept. |
| SOGPO_1 (Pin 1) SOGPI_1 (Pin 2) SOGPO_2 (Pin 3) SOGPI_2 (Pin 4) SOGPO_3 (Pin 5) SOGPI_3 (Pin 6) SOGPO_4 (Pin 7) SOGPI_4 (Pin 8) | Configure Digital IO Input or Output values for each pin. |



| Item | Description |
|--------------------|--|
| Enroll Cert | <p>Press [Enter] to configure advanced items :</p> <p>Server CA Configuration :</p> <p>Enroll Cert :</p> <ol style="list-style-type: none"> 1. Enroll Cert Using File 2. Cert GUID : <p>Input digit character in 11111111-2222-3333-4444-1234567890ab format.</p> <ol style="list-style-type: none"> 3. Commit Changes and Exit 4. Discard Changes and Exit |

3.3.13 Intel(R) Ethernet Controller (3) I225-V - 74:56:3C:BC:5D:C0 (MAC address may varied based on different motherboard)

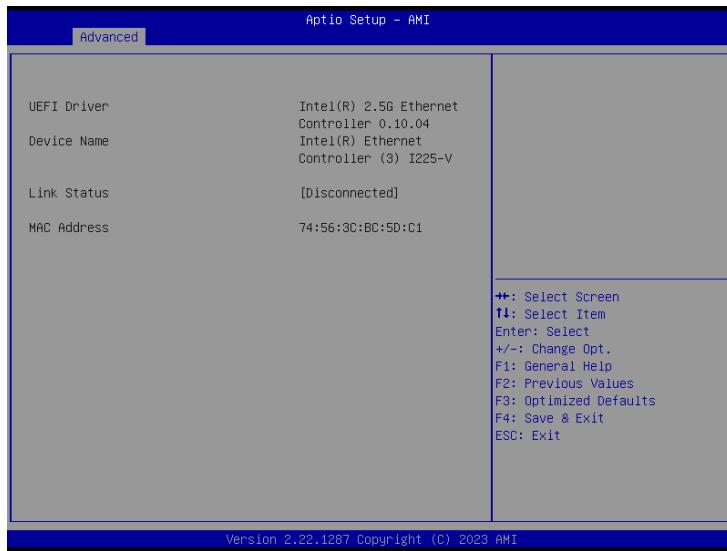
Shows Intel Ethernet controller information



NOTE : MAC address may varied based on different motherboard

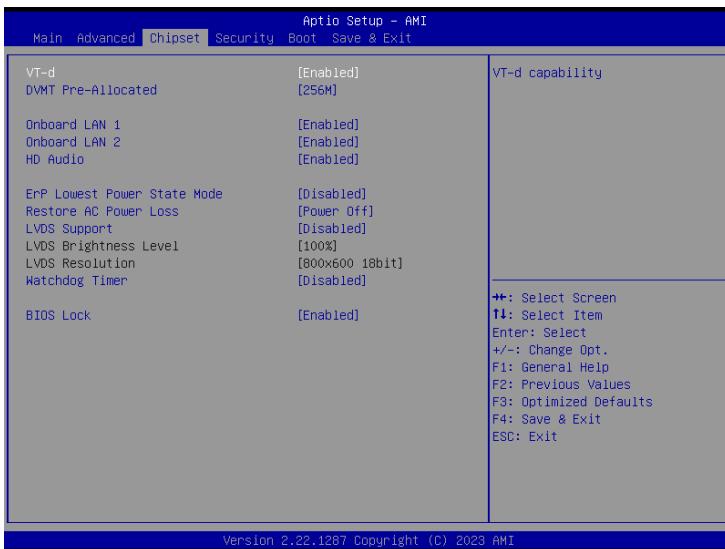
3.3.14 Intel(R) Ethernet Controller (3) I225-V - 74:56:3C:BC:5D:C1 (MAC address may varied based on different motherboard)

Shows Intel Ethernet controller information



NOTE : MAC address may varied based on different motherboard

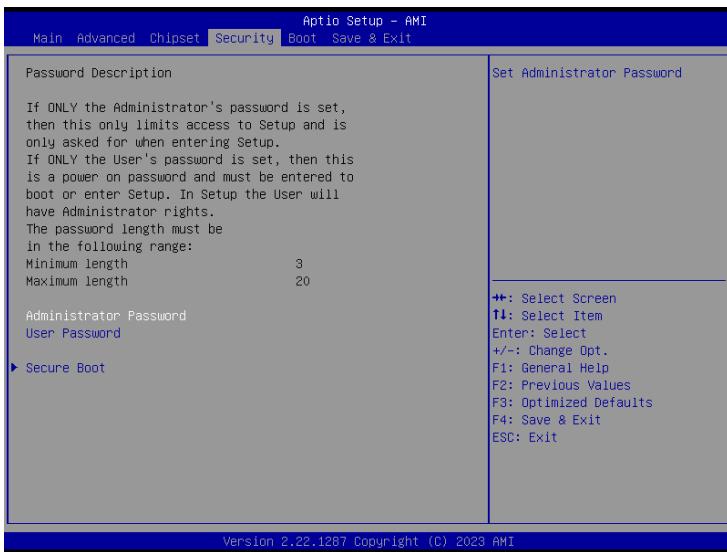
3.4 Chipset



| Item | Description |
|--|--|
| VT-d | Enabled : Enables VT-d function (Default setting) Disabled : Disables VT-d function |
| DVMT Pre-Allocated | Use DVMT Pre-Allocated to set the amount of system memory which is installed to the integrated graphics processor Option items : 32M , 64M , 128M , 256M(Default setting) |
| Onboard LAN 1 Onboard LAN 2 | Enable/Disable onboard LAN controller Enabled : Enables onboard LAN controller (Default setting) Disabled : Disables onboard LAN controller |
| HD Audio | Enable/Disable onboard audio controller Enabled : Enables onboard audio controller (Default setting) Disabled : Disables onboard audio controller |
| ErP Lowest Power State Mode | Enable/Disable power saving function Enabled : Enables ERP Lowest Power State Mode Disabled : Disabled ERP Lowest Power State Mode (Default setting) |

| | |
|------------------------------|---|
| Restore AC Power Loss | To set which option the system should returns if a sudden power loss occurred Power off : Do not power on when the power is back (Default setting) Power on : System power on when the power is back Last state : Restore the system to the state before power loss occurs |
| LVDS Support | Disabled : Disables LVDS Support (Default setting) Enabled : Enables LVDS Support |
| LVDS Brightness Level | When LVDS Support is enabled : To modified the backlight brightness of the LVDS panel Option items : 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100% (Default Setting) |
| LVDS Resolution | When LVDS Support is enabled : To modified the LVDS resolution Option items : 800x600 18bit (Default Setting) , 1024x768 18bit, 1024x768 24bit, 1024x600 18bit, 1280x800 18bit, 1280x960 18bit, 1280x1024 24bit, 1366x768 18bit, 1366x768 24bit, 1440x900 24bit, 1400x1050 24bit, 1600x900 24bit, 1680x1050 24bit, 1600x1200 24bit, 1920x1080 24bit, 1920x1200 24bit |
| Watchdog Timer | Enable/Disable Watchdog Timer function Enabled : Enables Watchdog Timer function Disabled : Disabled Watchdog Timer function (Default setting) |
| BIOS Lock | Enable/Disable BIOS Lock function Enabled : Enables BIOS Lock function (Default setting) Disabled : Disabled BIOS Lock funtion |

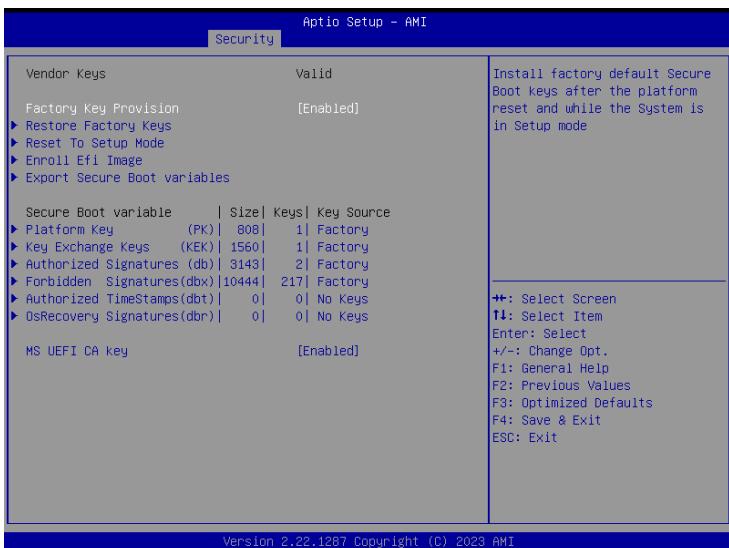
3.5 Security



| Item | Description |
|-------------------------------|---|
| Administrator Password | To set up Administrator's password Minimum length : 3 Maximum length : 20 |
| User Password | To set up User's password Minimum length : 3 Maximum length : 20 |
| Secure Boot | Press <Enter> to configure the advanced items |



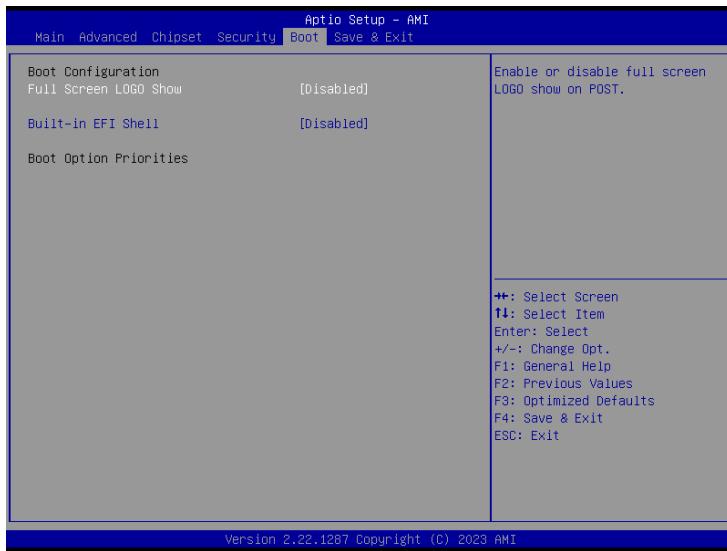
| Item | Description |
|-----------------------------|---|
| Secure Boot | Secure Boot requires all the applications that are running during the booting process to be pre-signed with valid digital certificates Enabled : Enables Secure Boot function Disabled : Disables Secure Boot function (Default setting) |
| Secure Boot Mode | Standard : Standard mode Custom : Custom mode (Default setting) |
| Restore Factory Keys | To restore factory settings Yes : Agree to restore factory settings No : Cancel to restore factory settings |
| Reset To Setup Mode | Yes : Agree to setup mode No : Cancel to setup mode |
| Key Management | Enables expert users to modify Secure boot policy variables without full authentication Press <Enter> to configure the advanced items |



| Item | Description | Item | Description |
|-------------------------------------|---|------------------------------------|--|
| Factory Key Provision | Install factory default Secure Boot keys after the platform reset and while the system is in Setup mode Enabled : Enables Factory Key Provision (Default setting) Disabled : Disables Factory Key Provision | Platform Key (PK) | |
| Restore Factory Keys | To restore factory settings Yes : Agree to restore factory settings No : Cancel to restore factory settings | Key Exchange Keys (KEK) | |
| Reset To Setup Mode | Yes : Agree to setup mode No : Cancel to setup mode | Authorized Signatures (db) | These items allows you to enroll factory defaults or load Certificates from a file. |
| Enroll Efi Image | Allow the image to run in Secure Boot mode | Forbidden Signatures (dbx) | |
| Export Secure Boot variables | Copy NVRAM content of Secure Boot variables to files in a root folder on a file system device | Authorized TimeStamps (dbt) | |
| | | OsRecovery Signatures (dbr) | |
| | | MS UEFI CA Key | Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in Authorized Signature database(db) |

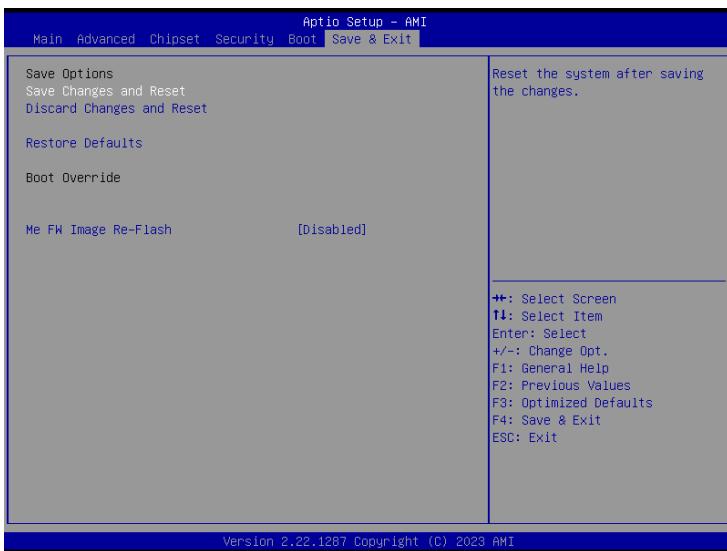
3.6 Boot

This Boot menu allows you to set/change system boot options



| Item | Description |
|-------------------------------|---|
| Full Screen LOGO Show | Enable/Disable full screen LOGO show on POST screen Enabled : Enables Full screen LOGO Show on POST screen Disabled : Disables Full screen LOGO Show on POST screen (Default setting) |
| Built-in EFI Shell | Enable/Disable Built-in EFI Shell Enabled : Enables Built-in EFI Shell Disabled : Disables Built-in EFI Shell (Default setting) |
| Boot Option Priorities | Shows the information of the storage that be installed in the system Choose/set the boot priority |

3.7 Save & Exit



| Item | Description |
|----------------------------------|---|
| Save Changes and Reset | After configuring all the options that you wish to change, choose this option to save all the changes and reboot the system Yes : Agree to save and reset No : Cancel to save and reset |
| Discard Changes and Reset | Choose this option to reboot the system without saving any changes Yes : Agree to discard changes and reset No : Cancel to discard changes and reset |
| Restore Defaults | Restore/Load default values for all the setup options Yes : Agree to load optimized defaults No : Cancel to load optimized defaults |
| Me FW Image Re-Flash | Enable/Disable Me FW image re-flash function Enabled : Enables Me FW image re-flash function Disabled : Disables Me FW image re-flash function (Default setting) |