Table of Contents

SECTION 1
INTRODUCTION

This section contains general information and detailed specifications of the _____. Section 1 consist of the following sub-sections:

- General Descriptions
- System Specifications
- Dimensions
- I/O Outlets
- Packing List
- Model List

1.1 General Descriptions

The _____ is a compact embedded system that featuring Intel® Celeron® Processor J6412 (Elkhart Lake) onboard for High performance/low power consumption. It features fan-less design with multiple I/O including 6 USB ports, 3 COM ports, dual Intel® LAN ports and two independent displays. Suitable for the most IoT Gateway, Control system, Edge Computing, and intelligent factory applications.

Features

- Intel® Elkhart Lake Celeron® J6412 quad-core SoC onboard

- 1 HDMI and 1 VGA for dual view

- Trusted Platform Module (TPM) 2.0 onboard

- Rugged -10 °C to +60°C wide range operation temperature

- Wide range power input 9-36VDC

- M.2 Key E for WiFi/WiFi 6 connection

Reliable and Stable Design
The embedded system supports Intel® Celeron® Processor J6412 (Elkhart Lake), along with high flexibility and multi-functional design that makes it the best solution for smart factory, AIOT, Edge Computing, Factory automation applications.

Flexible Connectivity
The   comes with rich I/O interfaces including one RS-232/422/485 ports, two RS-232, four USB 3.1 ports, two USB 2.0 ports, one GbE port, one 2.5GbE port, one HDMI(lockable), one VGA, one mPCIe expansion slot and one M.2 key E.

Embedded O.S. Supported
The   supports Windows® 10, Windows® 10 IoT and various Linux versions.

Various Storage Supported
In terms of storage, the   supports one 2.5" SATA storage drive bay and one mSATA devices.

1.2 System Specifications

1.2.1 CPU

● **CPU**
  ■ Intel® Celeron® J6412 (Elkhart Lake), up to 10W

● **BIOS**
  ■ American Megatrends Inc. UEFI (Unified Extensible Firmware Interface) BIOS.

● **System Memory**
  ■ 1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB

1.2.2 I/O System

● **Display**
  ■ 1 x VGA (Resolution: 1920x1080@60Hz)
  ■ 1 x HDMI 1.4b (Resolution: 3840x2160@30Hz)

● **Ethernet**
  ■ 1 x 10/100/1000/2500 Mbps Ethernet supports Wake-on-LAN, UEFI PXE with i226-LM
  ■ 1 x 10/100/1000 Mbps Ethernet supports Wake-on-LAN, UEFI PXE with Intel i210-AT

● **USB Ports**
  ■ 4 x USB 3.1 Gen2
  ■ 2 x USB 2.0

● **Serial Ports**
  ■ 2 x RS-232 (COM 2, COM3)
  ■ 1 x RS-232/422/485 (COM1)

● **Digital IO**
  ■ 1 x optional 8-CH DIO by MOQ50 (default : 4in/4out)
  must remove COM 3 to add 8-CH DIO

- **Mini PCIe Interface**
  - 1 x full size internal PCI Express Mini Card slot (mSATA/SIM) (USB + PCIE + SATA)
  - 1 x M.2 2230 E Key (PCIE + USB signal)

- **Storage**
  - 1 x 2.5" SATA HDD/SSD drive bay, up to 9.5mm height
  - 1 x mSATA for mPCIE slot (enable in BIOS setting)

- **Indicator**
  - 1 x Green LED as indicator for PWR status
  - 1 x Orange LED as indicator for HDD active

- **Switch**
  - 1 x ATX PWR switch
  - 1 x Remote power switch
  - 1 x ATX/AT Quick switch

- **Antenna & SIM**
  - 4 x SMA type connector openings for antenna
  - 1 x SIM slot

- **TPM 2.0**
  - 1 x ST33HTPH2E32AHA6

- **Audio**
  - 1 x Line-out

1.2.3 System Specifications

- **Watchdog Timer**
  - 1~255 seconds or minutes; up to 255 levels.

- **Power Supply**
  - 9-36V DC input (Typical : 12V/24VDC)

- **Operation Temperature**
  - -10°C to +60°C (+14°F to +140°F) (with W.T. DRAM & SSD)

- **Storage Temperature**
  - -40℃ ~+80℃ (-40 ºF ~ 176ºF)

- **Humidity**
  - 10% ~ 95% (non-condensation)

- **Shock**
  - IEC 60068-2-27 (w/SSD: 50G@wall mount, half sine,11 ms duration)

- **Vibration Endurance**
  - IEC 60068-2-64 (w/SSD: 3Grms STD, random, 5 - 500 Hz,1 hr/axis)

- **Weight**
  - 1.2 kg (1.43 lb) without package
  - 1.8 kg (3.97 lb) with package

- **Dimension**
  - 200 mm (7.87") (W) x 120 mm (4.72") (D) x 46 mm (1.81") (H)

1.3 Dimensions

The following diagrams show dimensions and outlines of the   .

1.3.1 System Dimensions
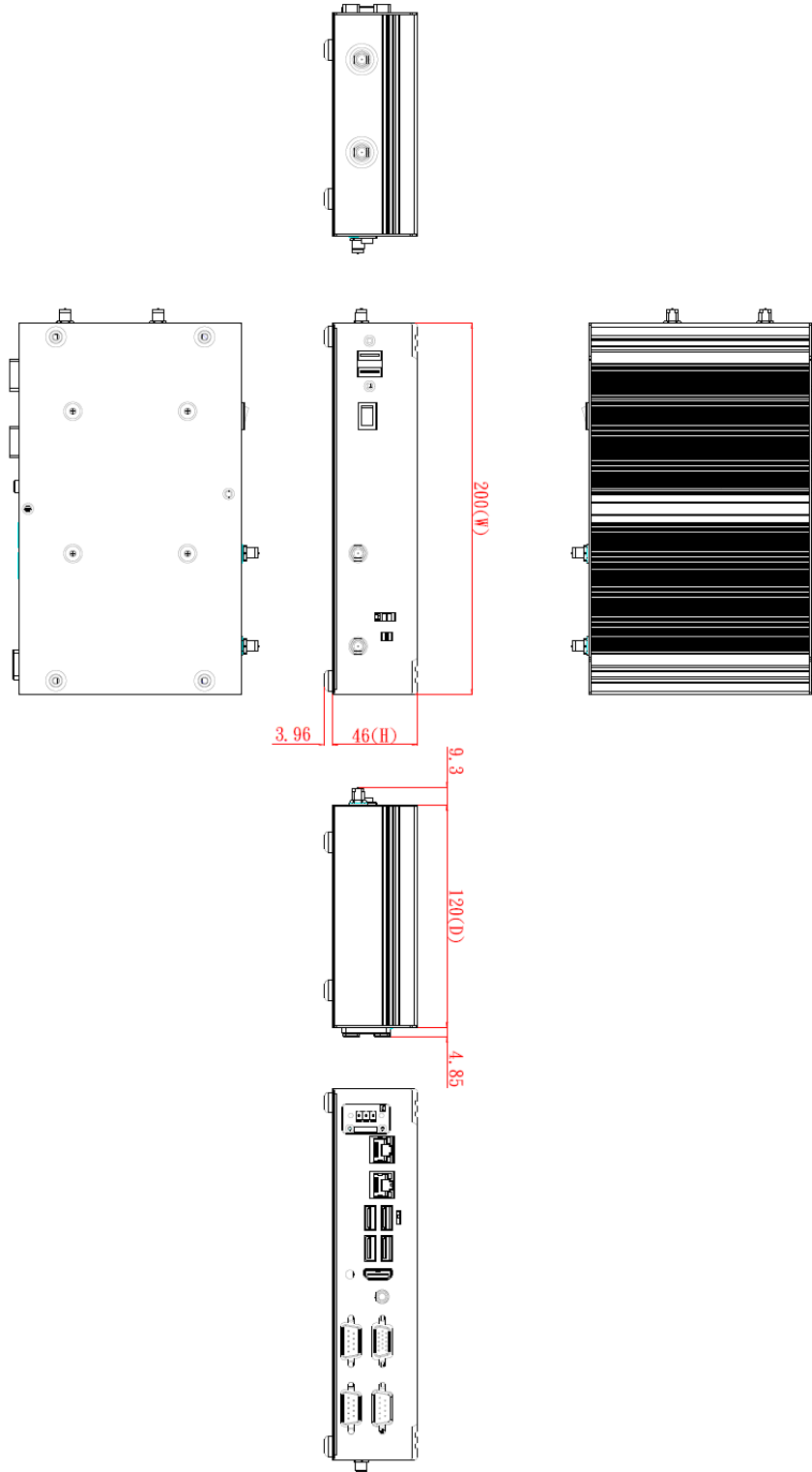
1.3.2 Wall-mount Bracket Dimensions

Users can get 4pcs truss head M3*6L screws for fixing the wall mount kit from the accessories box.

Note: When users install wall mount kit, please turn the LAN ports outlet side towards the floor.
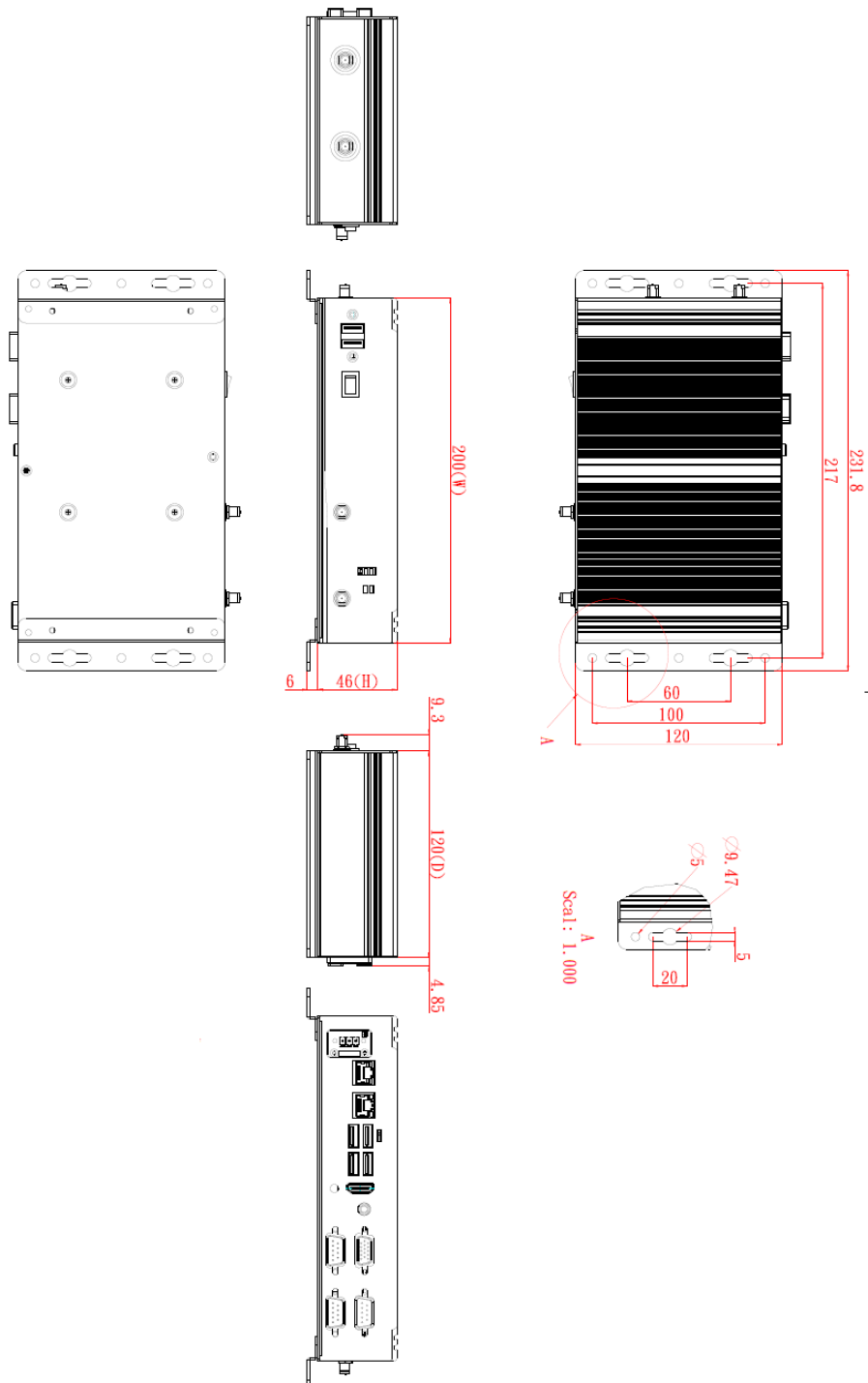
Wall-mount Bracket Assembly Drawing

Users can get 4pcs truss head M3*6L screws for fixing the wall mount kit from the accessories box.
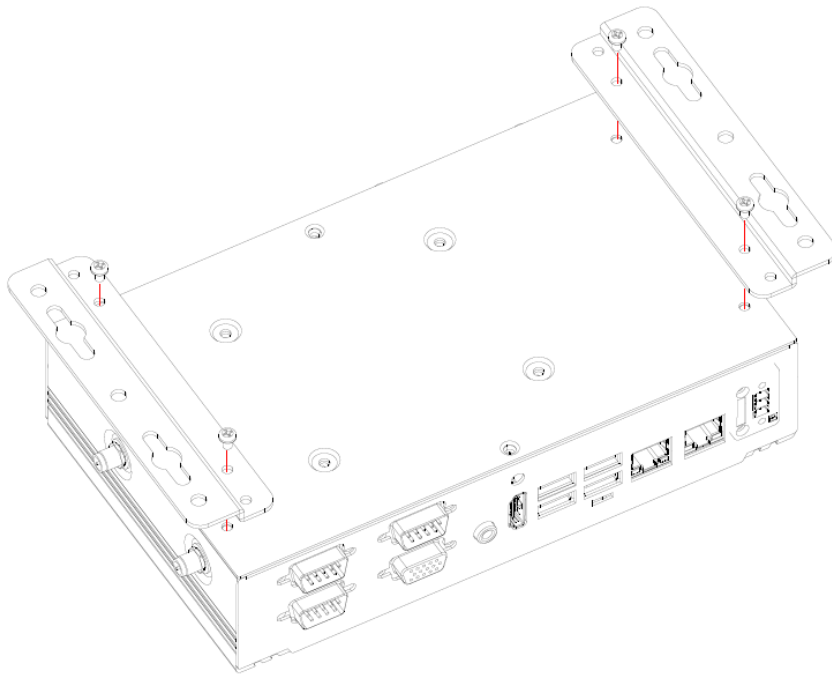
【Note】: *If users tighten the screws in drywall, use the hollow wall anchors to ensure that unit does not pull away from the wall due to prolonged strain* **between** *the cable and power connector.*

Minimum diameter: Ø5.5mm

Minimun Length: 1.2mm+ Wall's hole depth

Thread type should be decide accordingly.
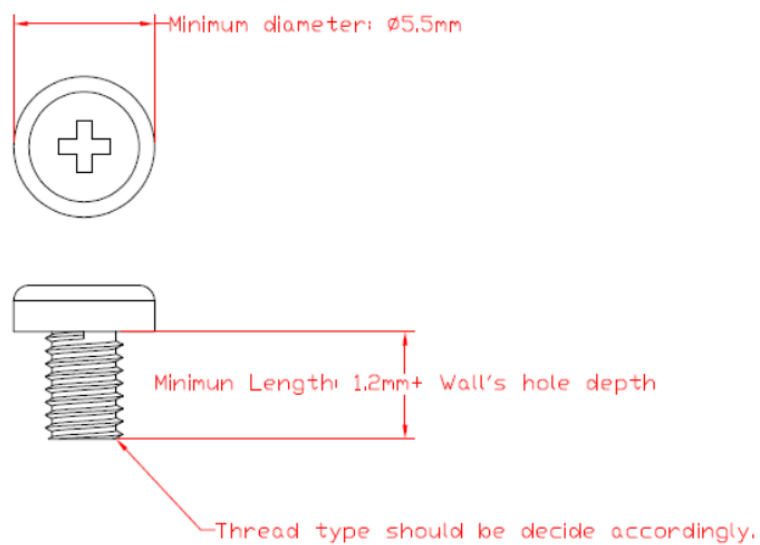
1.3.3 Din-Rail Bracket Dimensions

Users can get 8pcs truss head M3*4L screws for fixing the wall mount kit from the accessory box.
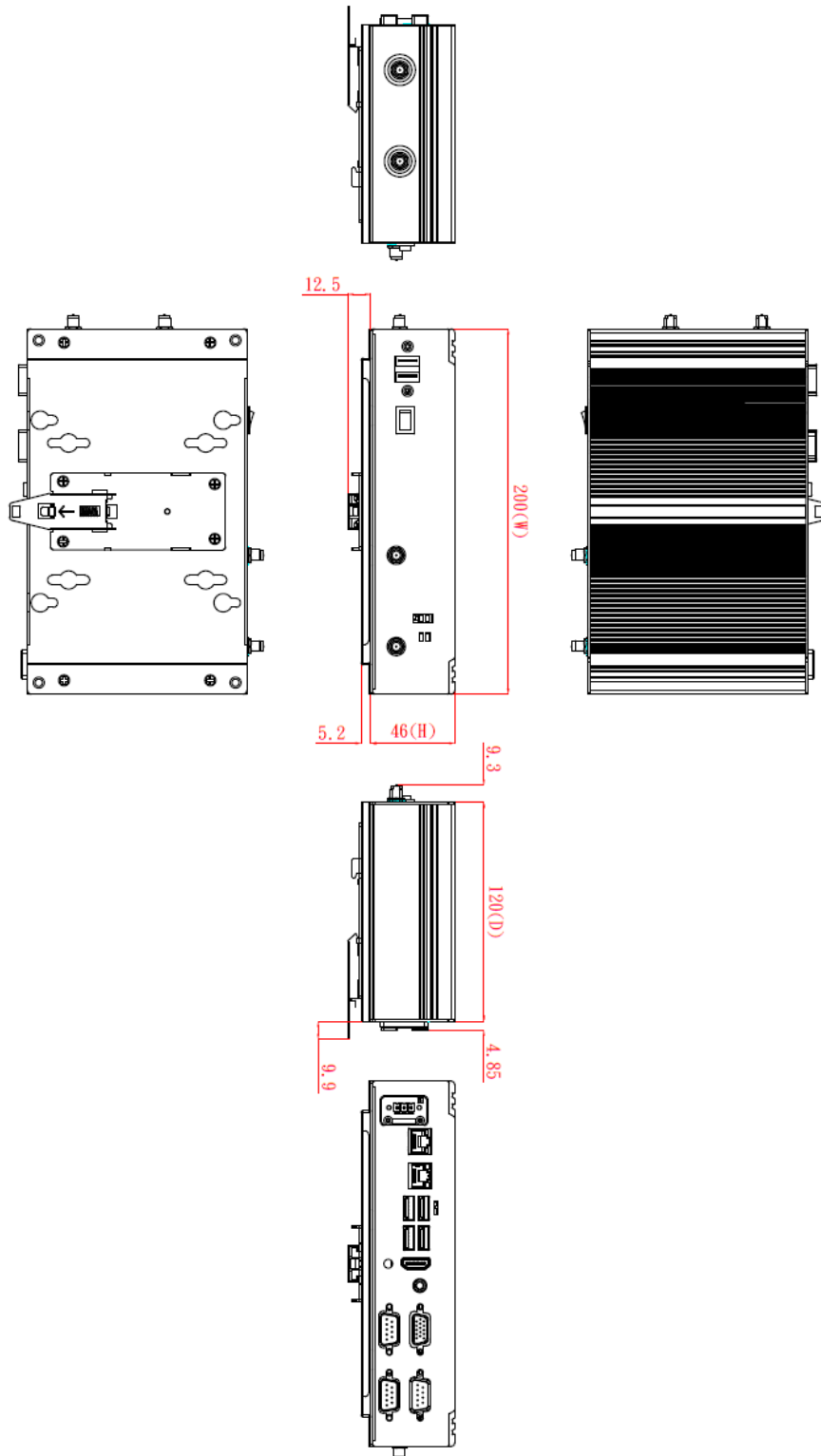
Din-Rail Bracket Assembly Drawing

Users can get 8pcs truss head M3*4L screws for fixing the wall mount kit from the accessory box.
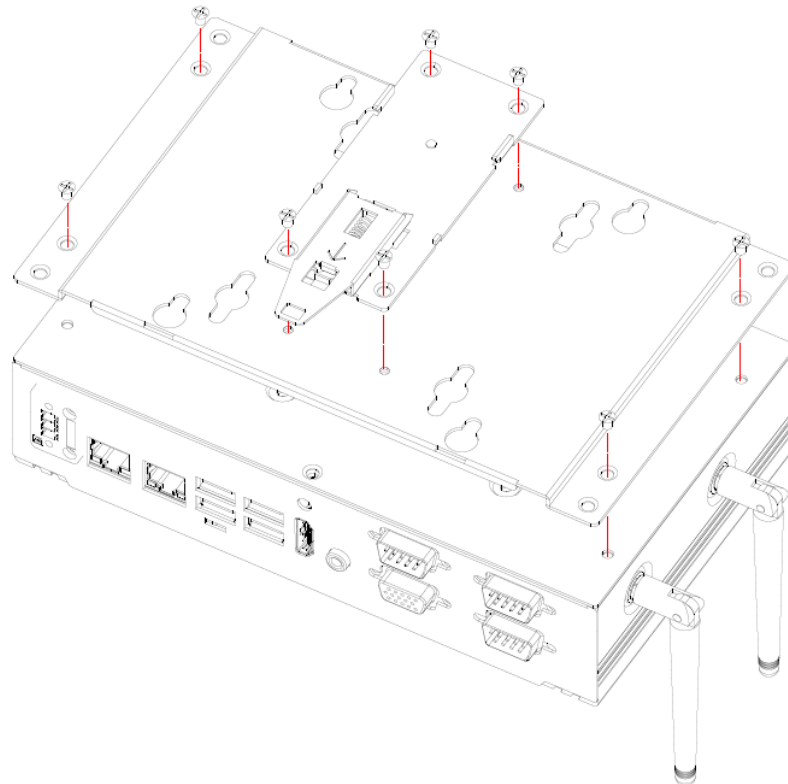
1.3.4 VESA Mount Bracket Dimensions

Users can get 4pcs truss head M3*6L screws for fixing the wall mount kit from the accessory box.
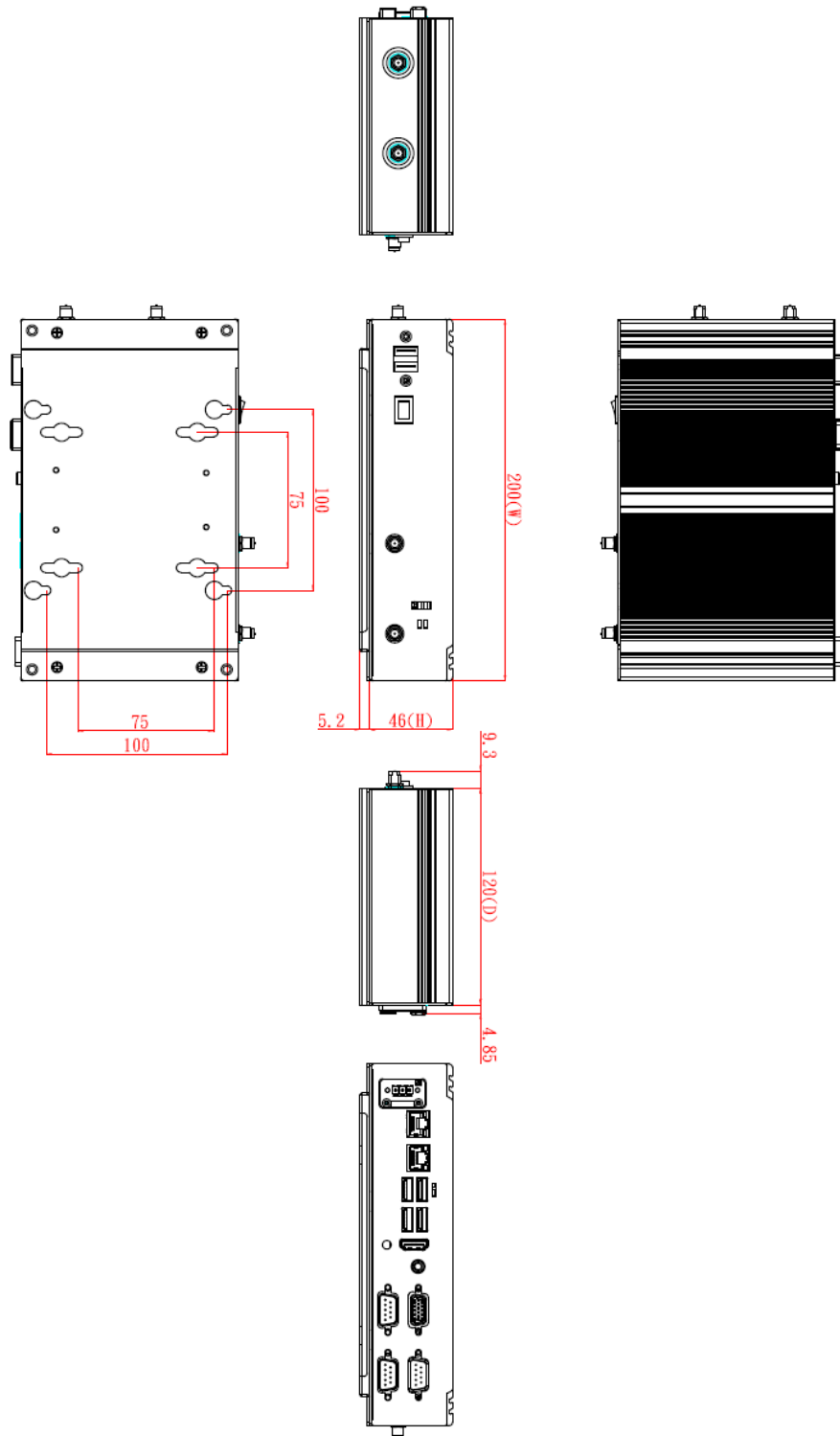
VESA Mount Bracket Assembly Drawing

Users can get 4pcs truss head M3*6L screws for fixing the wall mount kit from the accessory box.
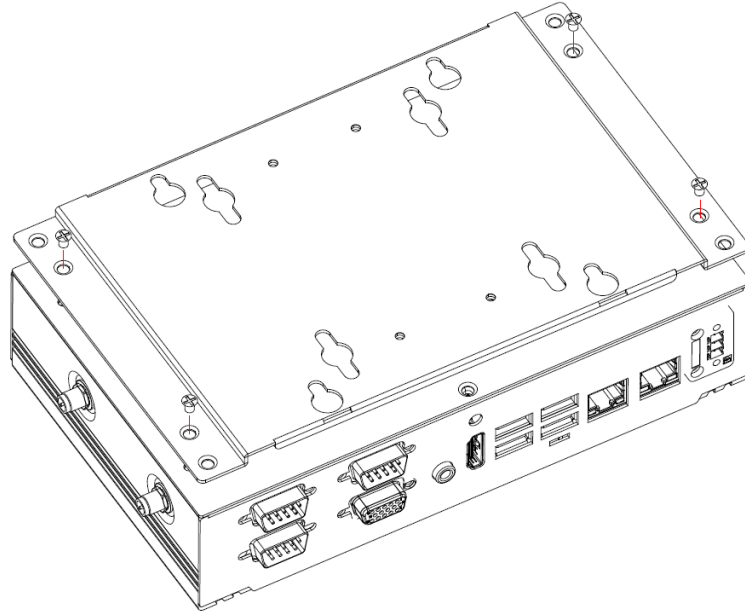
1.4 I/O Outlets

The following figures show I/O outlets on the   .

Front View
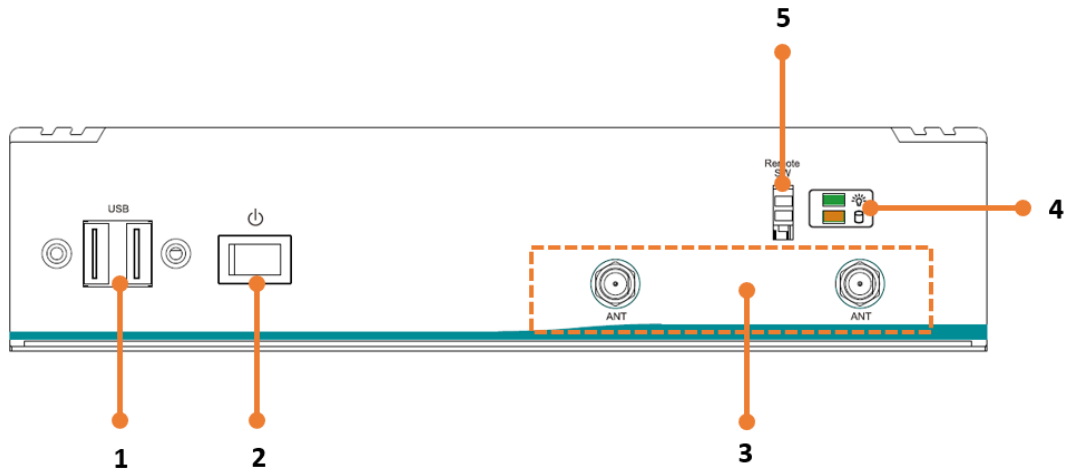
1	2 x USB 2.0	2	1 x Power botton
3	2 x Antenna opening	4	LEDs
5	1 x Remote power switch		

Rear View
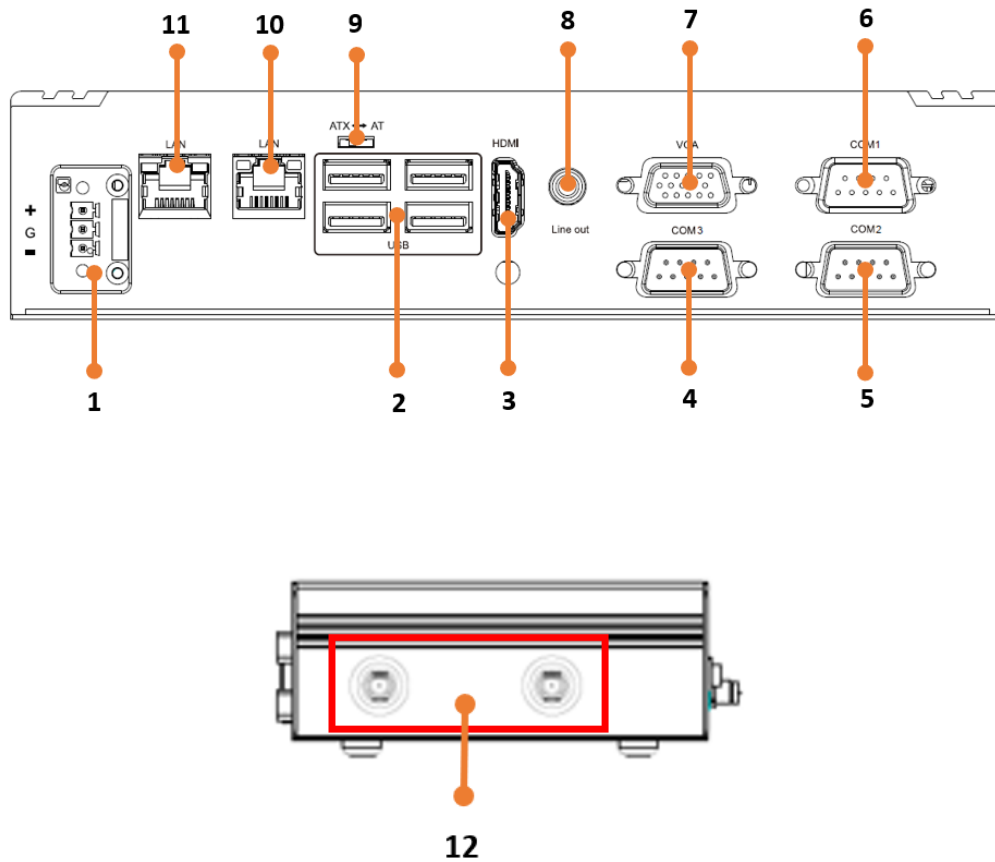
1	1 x Phoenix type power connector(9-36VDC)	7	1 x VGA
2	4 x USB 3.1 Gen 2	8	1 x Audio (Line-out)
3	1 x HDMI 1.4b (lockable)	9	1 x ATX/AT quick switch
4	1 x RS232 (COM3)	10	1 x 2.5G LAN (LAN 1, i226-LM)
5	1 x RS232 (COM2)	11	1 x GbE LAN (LAN 2, i210-AT)
6	1 x RS232/422-485 (COM1)	12	2 x Antenna opening

1.5 Packing List

The   comes with the following bundle package:

● **   System Unit x 1**

● **3-pin Terminal Block connector x 1**

● **Remote Switch Cable x 1**

● **Pre-installed Foot Pad x 4**

● **DRAM thermal pad x 3**

● **DRAM thermal pad bracket x1**

1.6 Model List

	Fanless Embedded System with Intel® Elkhart Lake J6412 2.0 GHz, HDMI/VGA, 6 USB, 2 LAN, 3 COM, and 9 to 36 VDC

SECTION 2
HARDWARE INSTALLATION

The _____ is convenient for various hardware configurations, such as DRAM, HDD (Hard Disk Drive), SSD (Solid State Drive), PCI Express Mini card, M.2 module. Section 2 contains guidelines for hardware installation.

2.1 Installation of 2.5" SATA Device

Step 1 **Turn off the system and unplug the power cord.**
Step 2 **Turn the system upside down to locate screws at the side of the system, and then loosen two screws and four foot pads.**
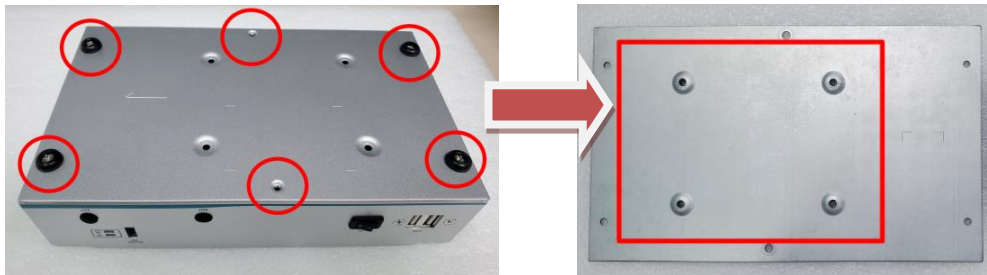
Step 3 **Assemble SSD/HDD with the bottom cover with 4 screws.**
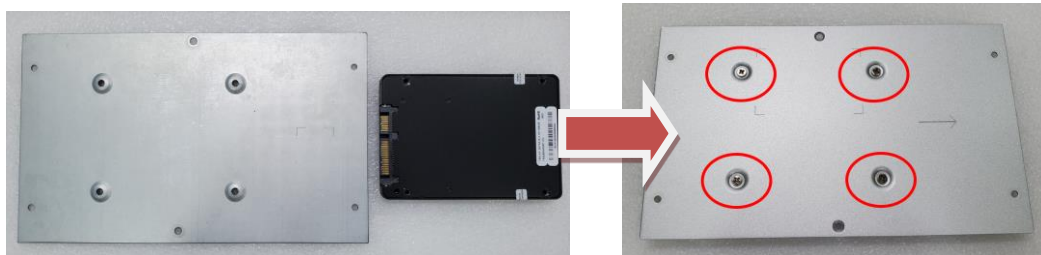
Step 4 **Connect the power and SATA cable directly and then make sure the insertion is complete.**
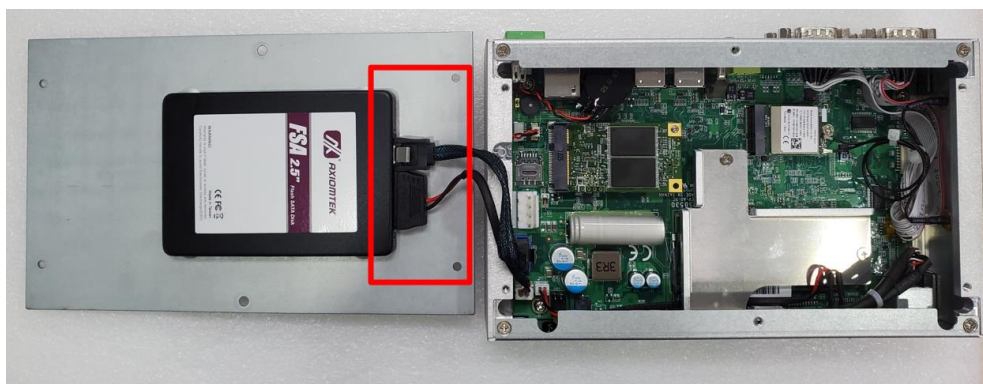
Step 5 **Put the bottom cover back.**

2.2 Installation of Memory Module

Step 1   Turn off the system and unplug the power cord.

Step 2   Turn the system upside down to locate screws at the side of the system, and then loosen two screws and four-foot pads.
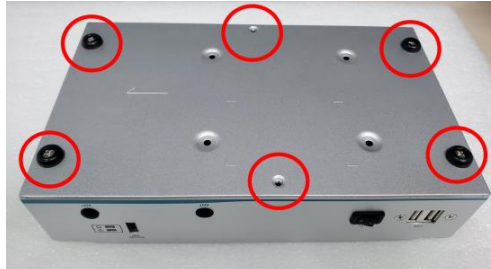
Step 3   prepare the DRAM bracket, thermal pads, screws, and locate the DDR4 SO-DIMM slot as red marked and put the thermal pad on the DRAM module and DRAM socket.
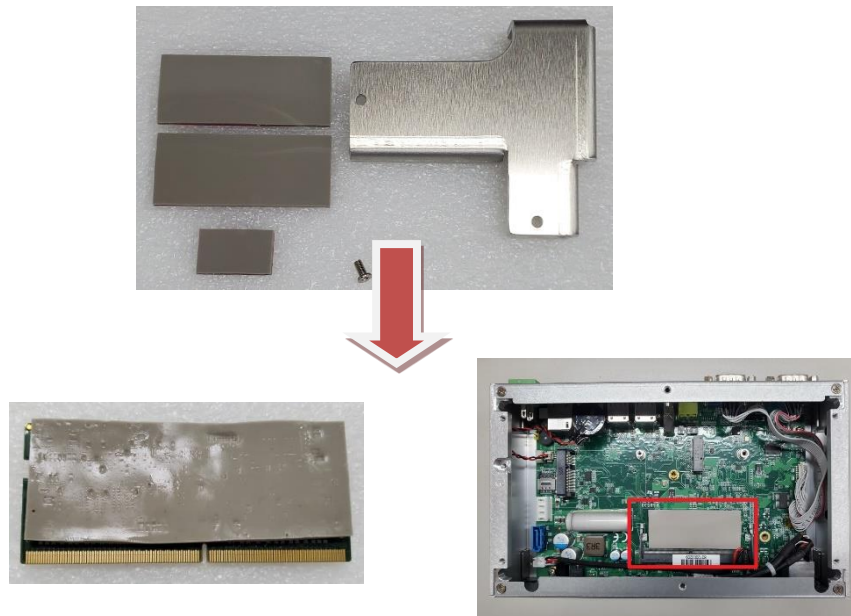
Step 4 Insert the SO-DIMM into the socket and push the module down until it is locked in place by the two end latches.

Step 5 Secure the DRAM bracket on top of the DRAM module with two screws. Please note screw 1 first then screw 2.
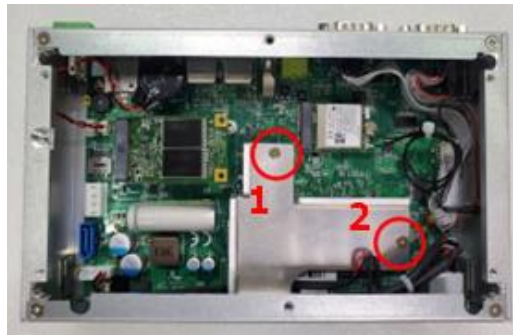
2.3 Installation of M.2 Mini PCIe Module (CN18)

Step 1 **Turn off the system and unplug the power cord.**
Step 2 **Turn the system upside down to locate screws at the side of the system, and then loosen two screws and four foot pads.**
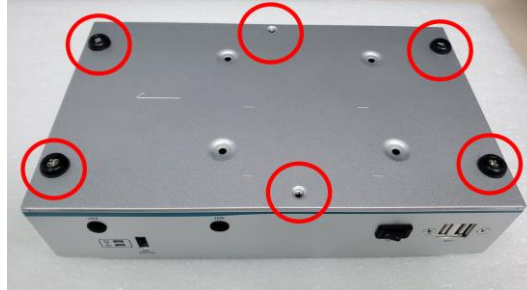
Step 3 **Located the M.2 bracket as red marked, insert the M.2 mini card and tighten the screw.**
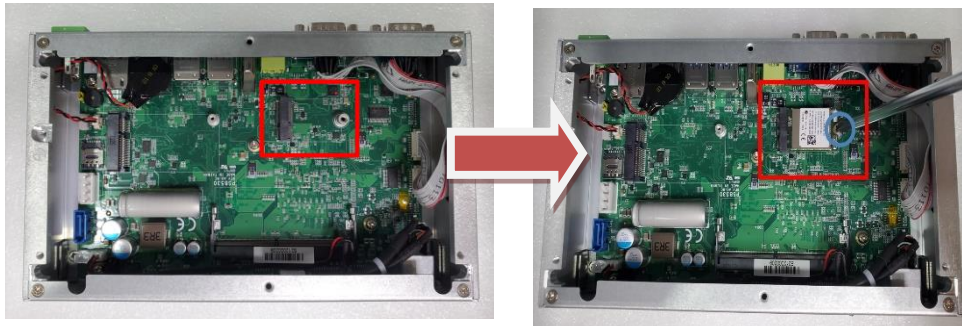
Step 4 **Put the bottom cover and tighten all screws back onto the system.**

2.4 Installation of Mini PCIe Module (Full-size)(CN16)

※ Note: Please choose Mini card module or mSATA module either one to install.

Step 1 Turn off the system and unplug the power cord.
Step 2 Turn the system upside down to locate screws at the side of the system, and then loosen two screws and four foot pads.
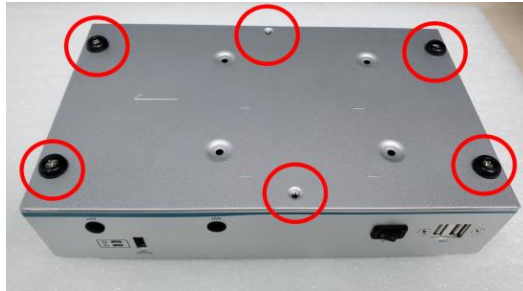
Step 3 Insert a mini PCIe module into the sockets and then tighten the screw.

Step 4 Put the bottom cover and tighten all screws back onto the system.

This page is intentionally left blank.

SECTION 3
JUMPER & CONNECTOR SETTINGS

Proper jumper settings configure the _____ to meet various application needs. Hereby all jumpers settings along with their default settings are listed for devices onboard.

3.1 Locations of Jumpers & Connectors

PSB530 Top View

PSB530 Bottom View

Jumper & Connector Settings
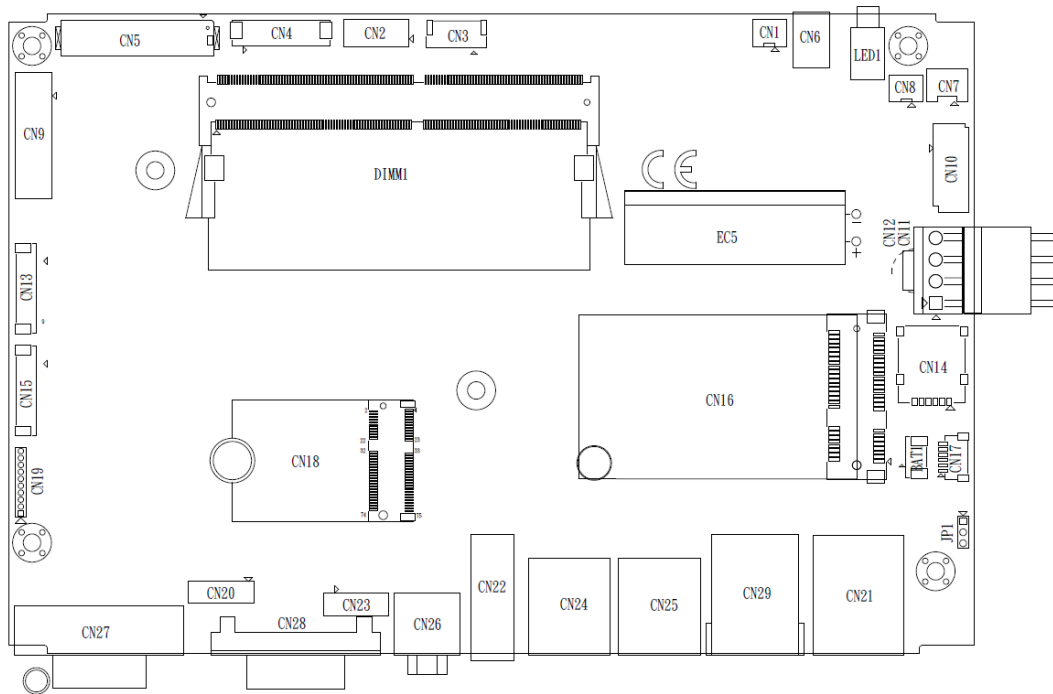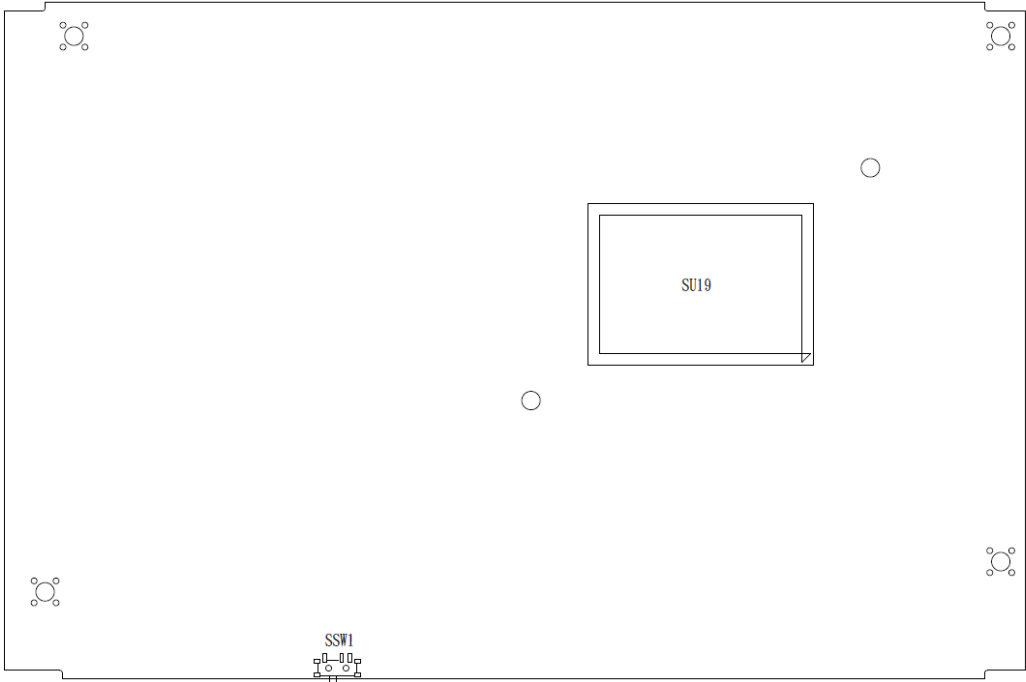
3.2 Summary of Jumper Settings

Proper jumper settings configure the   to meet various application purposes. A table of all jumpers and their default settings is listed below.

Jumpers	Descriptions	Settings
JP1	Restore BIOS Optimal Defaults Default: Normal Operation	Short 1-2

【Note】: **How to setup Jumpers**

That a cap on a jumper is to "close" the jumper, whereas that offs a jumper is to "open" the jumper.

[Open]   [Closed]   [Pin1-2 Closed]

3.2.1 Restore BIOS Optimal Defaults (JP1)

Put jumper clip to pin 2-3 for a few seconds then move it back to pin 1-2.
This procedure is to restore BIOS optimal defaults.

Functions	Settings
Normal (Default)	1-2 closed
Clear RTC	2-3 closed

1 2 3

3.3 Connectors

Please refer to below connector table to get their pin assignments.

External Connectors	Sections
DC-in Phoenix Power Connector (CN1)	3.3.1
HDMI Connector (CN22)	3.3.2
VGA Connector (CN28)	3.3.3
Serial Port Connector (CN27, CN13, CN15)	3.3.4
USB 3.2 Connector (CN24, CN25)	3.3.5
Ethernet Connector (CN29, CN21)	3.3.6
ATX Power On/Off Button (SW1)	3.3.7
Remote Power Switch Connector (PWRBT1)	3.3.8
AT/ATX Quick Switch (SSW1)	3.3.9
Internal Connectors	**Sections**
SATA Power Connector (CN7)	3.3.10
SATA Signal Connector (CN10)	3.3.11
SIM Slot (CN14)	3.3.12
Full-Size Express Mini Card slot (CN16)	3.3.13
M.2 Key E (CN18)	3.3.14
Audio (CN26)	3.3.15

3.3.1 DC-in Phoenix Power Connector (CN1)

The system supports 9~36V Phoenix DC-in connector for system power input.

Pins	Signals
1	DC+
2	GND
3	DC-
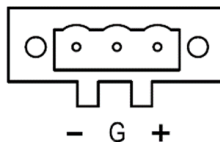
3.3.2 HDMI Connector (CN22)

The HDMI (High-Definition Multimedia Interface) is a compact digital interface which is capable of transmitting high-definition video and high-resolution audio over a single cable.

Pin	Signals	Pin	Signals
1	HDMI OUT_DATA2+	11	GND
2	GND	12	HDMI OUT Clock-
3	HDMI OUT_DATA2-	13	N.C.
4	HDMI OUT_DATA1+	14	N.C.
5	GND	15	HDMI OUT_SCL
6	HDMI OUT_DATA1-	16	HDMI OUT_SDA
7	HDMI OUT_DATA0+	17	GND
8	GND	18	+5V
9	HDMI OUT_DATA0-	19	HDMI_HTPLG
10	HDMI OUT Clock+		

HDMI1.4b

18   2

19   1
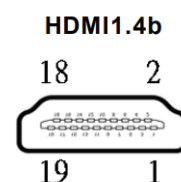
3.3.3 VGA Connector (CN28)

supports one VGA (DB15) output.

Pins	Signals	Pins	Signals
1	RED	2	GREEN
3	BLUE	4	N.C
5	GND	6	GND
7	CRT_VCC	8	GND
9	CRT_VCC	10	GND
11	N.C	12	DDC_DATA
13	Hsync	14	Vsync
15	DDC_CLK		
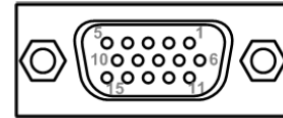
3.3.4 Serial Port Connector (CN27, CN13, CN15)

The system has three serial ports. COM1 is RS-232/422/485 ports. COM2~COM3 are RS-232. Please refer to Chapter 4 for the detail of BIOS setting.

CN27: RS-232/422/485 (COM1)

CN13, CN15: RS-232 (COM2, COM3)

Pin	RS-232	RS-422	RS-485
1	DCD	TX-	Data-
2	RXD	TX+	Data+
3	TXD	RX+	N/C
4	DTR	RX-	N/C
5	GND	GND	GND
6	DSR	N/C	N/C
7	RTS	N/C	N/C
8	CTS	N/C	N/C
9	RI	N/C	N/C
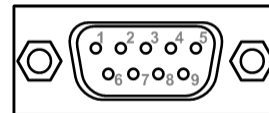
3.3.5 USB 3.2 Connector (CN24, CN25)

The system has six USB port, four port compliant with USB 3.2 gen1 (5GB/s), two port compliant with USB 2.0 (480MB/s), and ideally for installing USB peripherals such as scanner, camera, and USB devices, etc.

USB 3.0 (CN24, CN25)

Pins	Signal USB Port 0	Pins	Signal USB Port 1
1	USB_VCC (+5V level standby power)	10	USB_VCC (+5V level standby power)
2	USB_Data-	11	USB_Data-
3	USB_Data+	12	USB_Data+
4	GND	13	GND
5	SSRX-	14	SSRX-
6	SSRX+	15	SSRX+
7	GND	16	GND
8	SSTX-	17	SSTX-
9	SSTX+	18	SSTX+
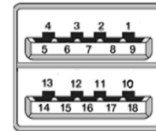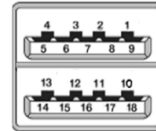
USB 2.0 (CN2, wafer, dual port)

Pins	Signal USB Port 0	Pins	Signal USB Port 1
1	USB_VCC (+5V level standby power)	3	USB_Data+
2	USB_Data-	4	GND
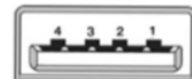
3.3.6 Ethernet Connector (CN29, CN21)

The _____ has two RJ-45 connectors: LAN1 (CN29) and LAN2 (CN21).

LAN1 is designed by Intel i226-LM and LAN2 is Intel i210-AT.

Pin assignment for LAN1 (i226-LM, CN29)

Pins	2500/1000 Base-T	100/10 Base-T	Description
L1	BI_DA+	TX+	Bidirectional or Transmit Data+
L2	BI_DA-	TX-	Bidirectional or Transmit Data-
L3	BI_DB+	RX+	Bidirectional or Receive Data+
L4	BI_DC+	N.C.	Bidirectional or Not Connected
L5	BI_DC-	N.C.	Bidirectional or Not Connected
L6	BI_DB-	RX-	Bidirectional or Receive Data-
L7	BI_DD+	N.C.	Bidirectional or Not Connected
L8	BI_DD-	N.C.	Bidirectional or Not Connected
A	Active Link LED (Yellow) Off: No link Blinking: Data activity detected		
B	Speed LED 2500: Green 1000: Orange 100/10: OFF		
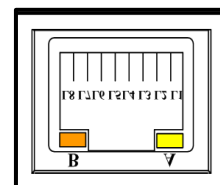
2.5G

LAN 1

Pin assignment for LAN2 (i210-AT, CN21)

Pins	1000 Base-T	100/10 Base-T	Description
L1	BI_DA+	TX+	Bidirectional or Transmit Data+
L2	BI_DA-	TX-	Bidirectional or Transmit Data-
L3	BI_DB+	RX+	Bidirectional or Receive Data+
L4	BI_DC+	N.C.	Bidirectional or Not Connected
L5	BI_DC-	N.C.	Bidirectional or Not Connected
L6	BI_DB-	RX-	Bidirectional or Receive Data-
L7	BI_DD+	N.C.	Bidirectional or Not Connected
L8	BI_DD-	N.C.	Bidirectional or Not Connected
A	Active Link LED (Yellow) Off: No link Blinking: Data activity detected		
B	Speed LED 1000: Orange 100/10: Green/OFF		
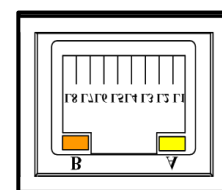
1G

LAN 2

3.3.7 ATX Power On/Off (SW1)

The ATX power button is on the I/O side. It can allow users to control power on/off.

Functions	Descriptions
On	Turn on/off system
Off	Keep system status
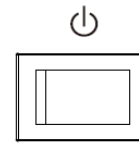
3.3.8 Remote Power Switch Connector (PWRBT1)

One 2-pin connector output for remote power on/off switch.

Functions	Descriptions
Short (1-2)	Turn on/off system
Open	Keep system status
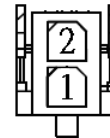
3.3.9 ATX/AT Quick Switch (SSW1)

If you set ATX /AT switch to AT mode, the system will be automatically power on without pressing soft power button during power input; we can use this switch to achieve auto power on demand.
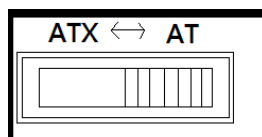
3.3.10 SATA Power Connector (CN7)

Based on CN7 to offer the SATA power for SATA 2.5" HDD/SSD.

Pins	Signals
1	+5V level
2	GND
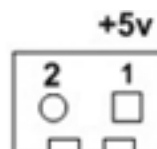
3.3.11 SATA Connector (CN10)

The Serial Advanced Technology Attachment (Serial ATA or SATA) connector is for high-speed SATA interfaces. It is computer bus interfaces for connecting to devices such as hard disk drives. This board has one SATA 3.0 ports with 6Gb/s performance.

Pins	Signals
1	GND
2	SATA_TX+
3	SATA_TX-
4	GND
5	SATA_RX-
6	SATA_RX+
7	GND
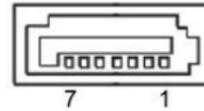
3.3.12 Nano SIM Card Slot (CN14)

The   has one SIM slots: CN14 on top side that support mini PCIe slot (for CN18). It is mainly used in wireless network application.

Pin	Signal
C1	PWR
C2	RST
C3	CLK
C4	NC
C5	GND
C6	VPP
C7	I/O

3.3.13 Full-Size PCI Express Mini Card Slot (CN16)

The　　　　　　supports one full-size PCI-Express Mini Card slot.

CN16 is applying for PCI-Express or SATA (mSATA) via BIOS selection and USB signals; PCI-Express complies with PCI-Express Mini Card Spec. V1.2. Thus, users can install mSATA or WLAN/WWAN cards into this slot. Please refer to the SATA of BIOS setting to enable or disable mSATA supported.CN14 support SIM slot.

Pins	Signals	Pins	Signals
1	WAKE#	2	+3.3VSB
3	No use	4	GND
5	No use	6	+1.5V
7	CLKREQ# 8 No use	8	No use
9	GND	10	No use
11	REFCLK-	12	No use
13	REFCLK+	14	No use
15	GND	16	No use
17	No use	18	GND
19	No use	20	W_DISABLE#
21	GND	22	PERST#
23	PE_RXN3/	24	+3.3VSB
25	PE_RXP3/	26	GND
27	GND	28	+1.5V
29	GND	30	SMB_CLK
31	PE_TXN3/	32	SMB_DATA
33	SATA_TXN	34	GND
35	GND	36	USB_D8-
37	GND	38	USB_D8+
39	+3.3VSB	40	GND
41	+3.3VSB	42	No use
43	GND	44	No use
45	No use	46	No use
47	No use	48	+1.5V
49	No use	50	GND
51	No use	52	+3.3VSB
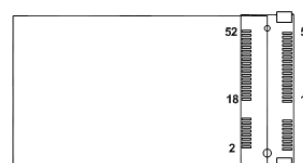
3.3.14 M.2 2230 Key E slot (CN18)

The M.2 2230 Key E for WIFI Module.

Pins	Signals	Pins	Signals	Pins	Signals	Pins	Signals
1	GND	2	+3.3V	3	USB_D+	4	+3.3V
5	USB_D-	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	24	CONNECTOR KEY E
25	CONNECTOR KEY E	26	CONNECTOR KEY E	27	CONNECTOR KEY E	28	CONNECTOR KEY E
29	CONNECTOR KEY E	30	CONNECTOR KEY E	31	CONNECTOR KEY E	32	NC
33	GND	34	NC	35	PETp0	36	NC
37	PETn0	38	NC	39	GND	40	NC
41	PERp0	42	NC	43	PERn0	44	NC
45	GND	46	NC	47	REFCLKp0	48	NC
49	REFCLKn0	50	SUSCLK	51	GND	52	PERST0#
53	CLKREQ0#	54	W_DISABLE2#	55	PEWAKE0#	56	W_DISABLE1#
57	GND	58	NC	59	NC	60	NC
61	NC	62	NC	63	GND	64	NC
65	NC	66	NC	67	NC	68	NC
69	GND	70	NC	71	NC	72	+3.3V
73	NC	74	+3.3V	75	GND		
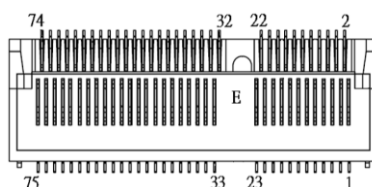
3.3.15 Intel® HD Audio Digital Header (CN26)

The audio jack is ideal for Audio Line-out.

Pin	Signal
1	Line Out

Line out

This page is intentionally left blank.

SECTION 4
BIOS SETUP UTILITY

This section provides users with detailed descriptions in terms of how to set up basic system configurations through the BIOS setup utility.

4.1 Starting

To enter the setup screens, follow the steps below:

1.   Turn on the computer and press the <Del> key immediately.
2.   After pressing the <Del> key, the main BIOS setup menu displays. Users can access other setup screens, such as the Advanced and Chipset menus, from the main BIOS setup menu.

It is strongly recommended that users should avoid changing the chipset's defaults. Both AMI and system manufacturer have carefully set up these defaults that provide the best performance and reliability.

4.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process. These keys include <F1>, <F2>, <Enter>, <ESC>, <Arrow> keys, and so on.

【Note】: *Some of the navigation keys differ from one screen to another.*

Hot Keys	Descriptions
←→ Left/Right	The Left and Right <Arrow> keys allow users to select a setup screen.
↑↓ Up/Down	The Up and Down <Arrow> keys allow users to select a setup screen or sub-screen.
+− Plus/Minus	The Plus and Minus <Arrow> keys allow users to change the field value of a particular setup item.
Tab	The <Tab> key allows users to select setup fields.
F1	The <F1> key allows users to display the General Help screen.
F2	The <F2> key allows users to Load Previous Values.
F3	The <F3> key allows users to Load Optimized Defaults.
F4	The <F4> key allows users to save any changes they made and exit the Setup. Press the <F4> key to save any changes.
Esc	The <Esc> key allows users to discard any changes they made and exit the Setup. Press the <Esc> key to exit the setup without saving any changes.
Enter	The <Enter> key allows users to display or change the setup option listed for a particular setup item. The <Enter> key can also allow users to display the setup sub- screens.

4.3 Main Menu

The Main Menu screen is the first screen users see when entering the setup utility. Users can always return to the Main setup screen by selecting the Main tab. System Time/Date can be set up as described below. The Main BIOS setup screen is also shown below.

```
                          Aptio Setup - AMI
   Main  Advanced  Chipset  Security  Boot  Save & Exit

   BIOS Information                                       Set the Date. Use Tab to
   Build Date and Time         01/11/2023 15:41:44        switch between Date elements.
   Project Version             PSB530 XA003.001           Default Ranges:
                                                          Year: 1998-9999
   Firmware Information                                    Months: 1-12
   ME Firmware Version         15.40.10.2252              Days: Dependent on month
   ME Firmware Mode            Normal Mode                Range of Years may vary.
   ME Firmware SKU             Consumer SKU

   System Date                 [Wed 01/11/2023]
   System Time                 [17:52:51]

   Access Level                Administrator
                                                          →←: Select Screen
                                                          ↑↓: Select Item
                                                          Enter: Select
                                                          +/-: Change Opt.
                                                          F1: General Help
                                                          F2: Previous Values
                                                          F3: Optimized Defaults
                                                          F4: Save & Exit
                                                          ESC: Exit



                      Version 2.22.1282 Copyright (C) 2023 AMI
```

BIOS Information
Display the auto-detected BIOS information.

System Date/Time
Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

Access Level
Display the access level of current user.

4.4 Advanced Menu

The Advanced menu also allows users to set configuration of the CPU and other system devices. Users can select any items in the left frame of the screen to go to sub menus:

- ► Trusted Computing
- ► CPU Configurations
- ► Storage Configuration
- ► USB Configuration
- ► F81966 Super IO Configuration
- ► Hardware monitor
- ► DIO Configuration (optional)

For items marked with "►", please press <Enter> for more options.

```
                            Aptio Setup – AMI
      Main   Advanced   Chipset   Security   Boot   Save & Exit
 ┌─────────────────────────────────────────┬──────────────────────────────┐
 │ ▶ Trusted Computing                      │ Trusted Computing Settings   │
 │ ▶ CPU Configuration                      │                              │
 │ ▶ Storage Configuration                  │                              │
 │ ▶ USB Configuration                      │                              │
 │ ▶ F81966 Super IO Configuration          │                              │
 │ ▶ Hardware Monitor                       │                              │
 │ ▶ DIO Configuration                      │                              │
 │                                          │                              │
 │                                          │                              │
 │                                          │                              │
 │                                          ├──────────────────────────────│
 │                                          │ ↔: Select Screen             │
 │                                          │ ↑↓: Select Item              │
 │                                          │ Enter: Select                │
 │                                          │ +/-: Change Opt.             │
 │                                          │ F1: General Help             │
 │                                          │ F2: Previous Values          │
 │                                          │ F3: Optimized Defaults       │
 │                                          │ F4: Save & Exit              │
 │                                          │ ESC: Exit                    │
 │                                          │                              │
 │                                          │                              │
 └─────────────────────────────────────────┴──────────────────────────────┘
              Version 2.22.1282 Copyright (C) 2022 AMI
```

Trust Computing

If users install a security device, such as TPM, users will see the following information for the TPM device and status.

```
                            Aptio Setup - AMI
      Advanced

   TPM 2.0 Device Found                        Enables or Disables BIOS
   Firmware Version:           1.258           support for security device.
   Vendor:                     STM             O.S. will not show Security
                                               Device. TCG EFI protocol and
   Security Device Support     [Enable]        INT1A interface will not be
   Active PCR banks            SHA256          available.
   Available PCR banks         SHA256
   Pending operation           [None]

                                               ────────────────────────────
                                               ↔: Select Screen
                                               ↑↓: Select Item
                                               Enter: Select
                                               +/-: Change Opt.
                                               F1: General Help
                                               F2: Previous Values
                                               F3: Optimized Defaults
                                               F4: Save & Exit
                                               ESC: Exit

                    Version 2.22.1282 Copyright (C) 2022 AMI
```

CPU Configuration

This screen shows the CPU version and its detailed information.

```
                              Aptio Setup – AMI
     Advanced

   CPU Configuration                                         When enabled, a VMM can
                                                             utilize the additional
   Type                         Intel(R) Celeron(R)          hardware capabilities provided
                                J6412 @ 2.00GHz              by Vanderpool Technology.
   ID                           0x90661
   Speed                        2000 MHz
   L1 Data Cache                32 KB x 4
   L1 Instruction Cache         32 KB x 4
   L2 Cache                     1536 KB x 4
   L3 Cache                     4 MB
   L4 Cache                     N/A
   VMX                          Supported
   SMX/TXT                      Not Supported
   Package C State Limit        [C0/C1]
                                                             →←: Select Screen
                                                             ↑↓: Select Item
   Intel (VMX) Virtualization   [Enabled]                    Enter: Select
   Technology                                                +/-: Change Opt.
   Intel(R) SpeedStep(tm)       [Enabled]                    F1: General Help
     Turbo Mode                 [Enabled]                    F2: Previous Values
                                                             F3: Optimized Defaults
                                                             F4: Save & Exit
                                                             ESC: Exit



                        Version 2.22.1282 Copyright (C) 2022 AMI
```

Intel Virtualization Technology
Enable or disable Intel Virtualization Technology. When enabled, a VMM (Virtual Machine Mode) can utilize the additional hardware capabilities. It allows a platform to run multiple operating systems and applications independently, hence enabling a single computer system to work as several virtual systems.

Intel (R) SpeedStep(tm)
Allows more than two frequency ranges to be supported.

Turbo Mode
Enable/Disable processor Turbo Mode (requires EMTTM enabled too).

.

Storage Configuration

This screen allows users to select options for SATA Configuration, and change the value of the selected option.

```
                              Aptio Setup – AMI
      Advanced

   Storage Configuration                              SATA Device Options Settings

 ▶ SATA Configuration




                                                     →←: Select Screen
                                                     ↑↓: Select Item
                                                     Enter: Select
                                                     +/−: Change Opt.
                                                     F1: General Help
                                                     F2: Previous Values
                                                     F3: Optimized Defaults
                                                     F4: Save & Exit
                                                     ESC: Exit



                      Version 2.22.1282 Copyright (C) 2022 AMI
```

BIOS Setup Utility

```
                                    Aptio Setup - AMI
      Advanced

  SATA Configuration                                        Enable/Disable SATA Device.

  SATA Controller(s)              [Enabled]

  Serial ATA Port 0              Empty
   SATA Device Type              [Solid State Drive]
  Serial ATA Port 1              Empty
   SATA Device Type              [Solid State Drive]

                                                           →←: Select Screen
                                                           ↑↓: Select Item
                                                           Enter: Select
                                                           +/-: Change Opt.
                                                           F1: General Help
                                                           F2: Previous Values
                                                           F3: Optimized Defaults
                                                           F4: Save & Exit
                                                           ESC: Exit

                   Version 2.22.1282 Copyright (C) 2022 AMI
```

SATA Controller
Highlight this item to enable or disable SATA Controller.

USB Configurations

Display all detected USB devices.

```
                                Aptio Setup - AMI
     [ Advanced ]

   USB Configuration

   USB Module Version              25

   USB Devices:
        1 Drive, 1 Keyboard, 1 Mouse


                                                     →←: Select Screen
                                                     ↑↓: Select Item
                                                     Enter: Select
                                                     +/-: Change Opt.
                                                     F1: General Help
                                                     F2: Previous Values
                                                     F3: Optimized Defaults
                                                     F4: Save & Exit
                                                     ESC: Exit




                    Version 2.22.1282 Copyright (C) 2022 AMI
```

BIOS Setup Utility
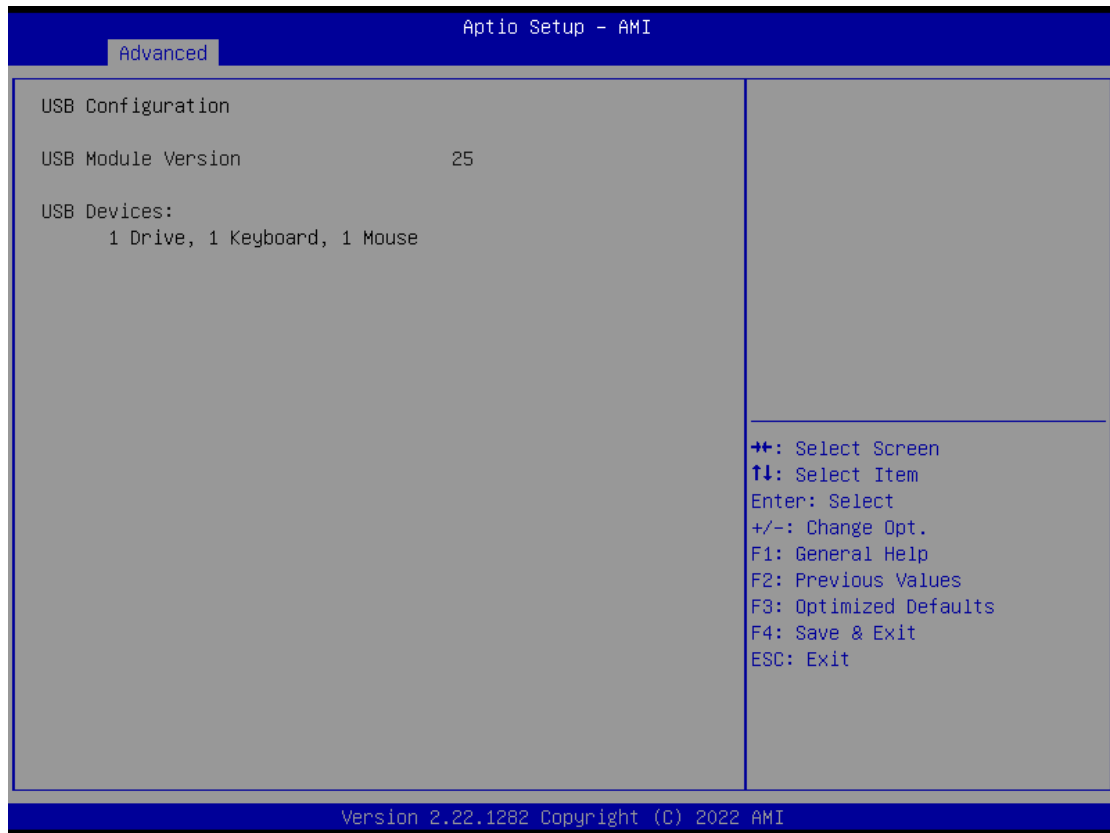
F81966 Super IO Configurations

Use this screen to select options for the F81966 Super IO Configurations and change the value of the selected option. A description of the selected item appears on the right side of the screen. For items marked with "▶", please press <Enter> for more options

```
                            Aptio Setup - AMI
    Advanced

   F81966 Super IO Configuration                        Set Parameters of Serial Port
                                                        1 (COMA)
   Super IO Chip                     F81966
 ▶ Serial Port 1 Configuration
 ▶ Serial Port 2 Configuration
 ▶ Serial Port 3 Configuration




                                                        →←: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F2: Previous Values
                                                        F3: Optimized Defaults
                                                        F4: Save & Exit
                                                        ESC: Exit



                    Version 2.22.1282 Copyright (C) 2022 AMI
```

Serial Port 1~3 (COM1~3) Configurations
Use these items to set parameters related to serial ports COM1 (RS232/422/485)
Use these items to set parameters related to serial ports COM2~3 (RS232 only)

Serial Port 1

Use this to set parameters of COM 1 (RS232422/485).

```
                              Aptio Setup - AMI
    Advanced

  Serial Port 1 Configuration                          Enable or Disable Serial Port
                                                       (COM)
  Serial Port                        [Enabled]
  Device Settings                    IO=3F8h; IRQ=4;

  COM Port Type                      [RS232]




                                                       →←: Select Screen
                                                       ↑↓: Select Item
                                                       Enter: Select
                                                       +/-: Change Opt.
                                                       F1: General Help
                                                       F2: Previous Values
                                                       F3: Optimized Defaults
                                                       F4: Save & Exit
                                                       ESC: Exit




                    Version 2.22.1282 Copyright (C) 2022 AMI
```
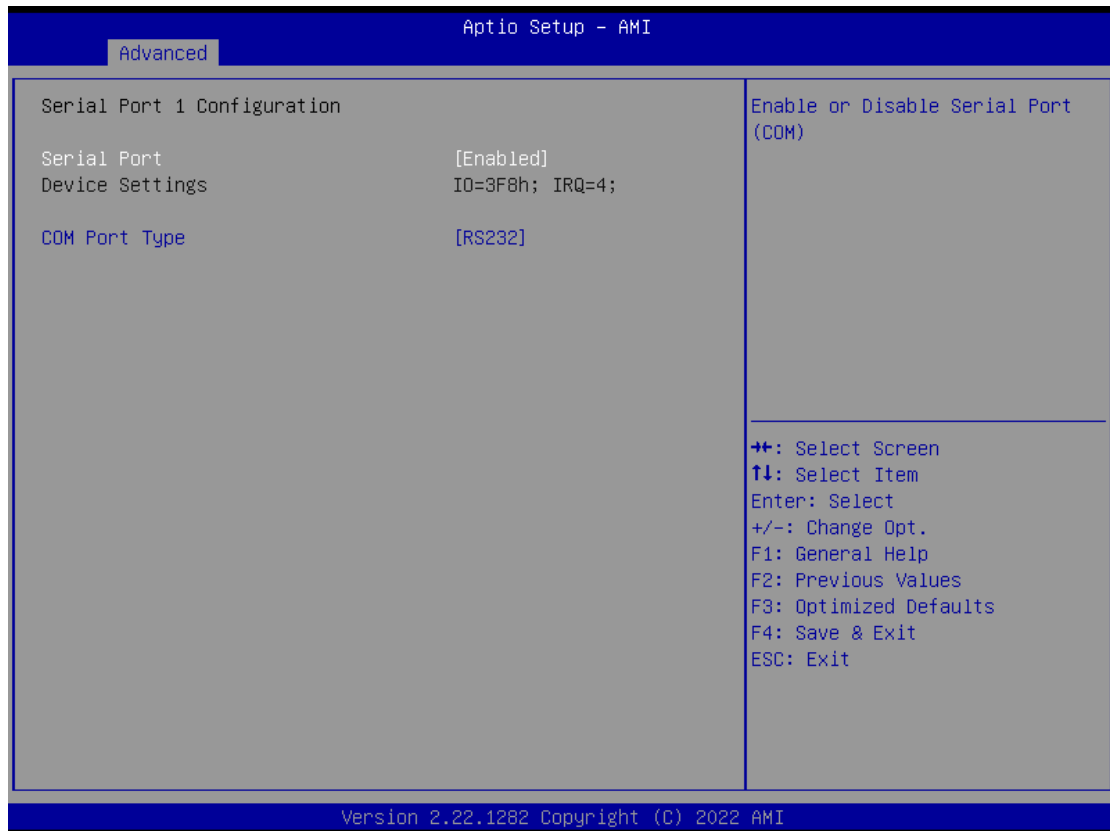
Serial Port
Enable or disable serial port 1. The optimal setting for base I/O address is 3F8h and for interrupt request address is IRQ4.

COM Port Type
Use this item to set RS-232/422/485 communication mode.

Serial Port 2

Use this to set parameters of COM 2 (RS-232).

```
                              Aptio Setup - AMI
┌──────────────┐
│  Advanced    │
└──────────────┘
 Serial Port 2 Configuration                          Enable or Disable Serial Port
                                                      (COM)
 Serial Port                      [Enabled]
 Device Settings                  IO=2F8h; IRQ=3;



                                                      →←: Select Screen
                                                      ↑↓: Select Item
                                                      Enter: Select
                                                      +/-: Change Opt.
                                                      F1: General Help
                                                      F2: Previous Values
                                                      F3: Optimized Defaults
                                                      F4: Save & Exit
                                                      ESC: Exit




                    Version 2.22.1282 Copyright (C) 2022 AMI
```
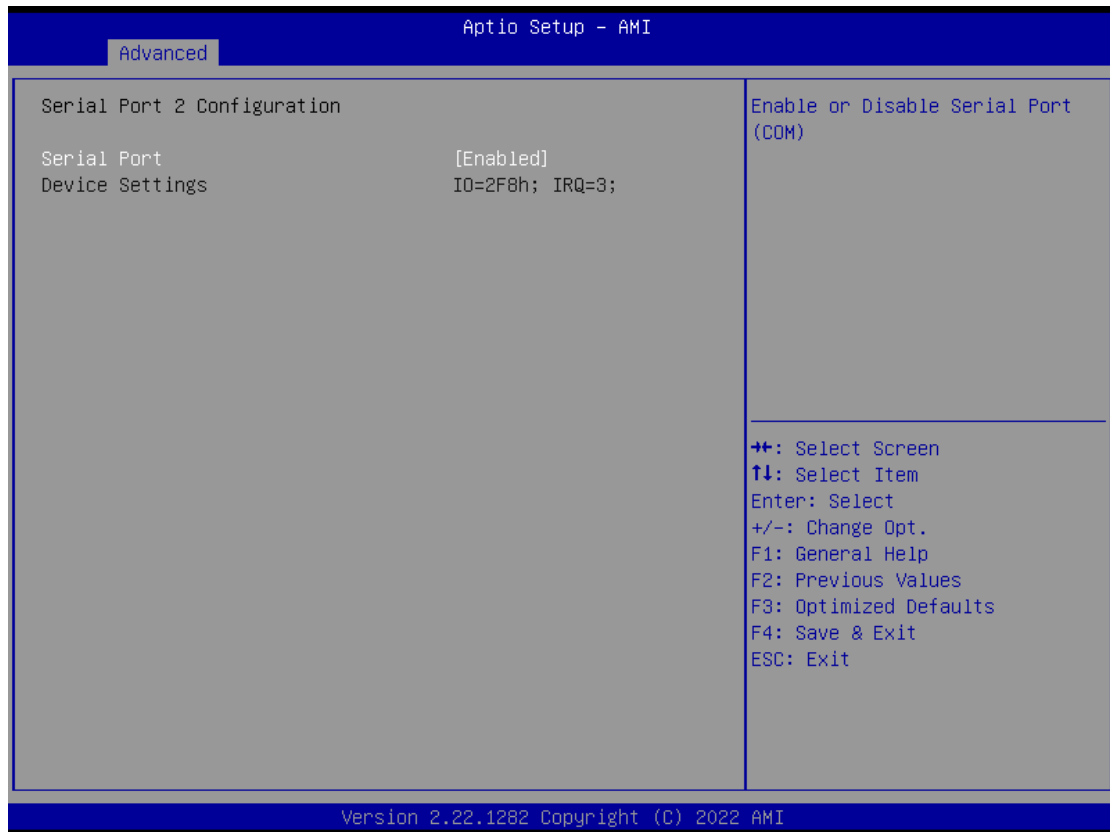
Serial port
Enable or disable serial port 2. The optimal setting for base I/O address is 2F8h and for interrupt request address is IRQ3.

Serial Port 3

Use this to set parameters of COM 3 (RS232).

```
                             Aptio Setup - AMI
    Advanced

 Serial Port 3 Configuration                            Enable or Disable Serial Port
                                                        (COM)
 Serial Port                      [Enabled]
 Device Settings                  IO=3E8h; IRQ=7;




                                                        →←: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F2: Previous Values
                                                        F3: Optimized Defaults
                                                        F4: Save & Exit
                                                        ESC: Exit



                    Version 2.22.1282 Copyright (C) 2022 AMI
```

Serial port
Enable or disable serial port 3. The optimal setting for base I/O address is 3E8h and for interrupt request address is IRQ7.

Hardware Monitor

This screen monitors hardware health status.

```
                        Aptio Setup – AMI
 ┌─────────────┐
 │  Advanced   │
 └─────────────┘
 ┌──────────────────────────────────────────────────┬────────────────────────────┐
 │                                                   │                            │
 │  Pc Health Status                                 │                            │
 │                                                   │                            │
 │  CPU temperature              : +38 ℃             │                            │
 │  System temperature           : +41 ℃             │                            │
 │  5VSBY                        : +4.961 V          │                            │
 │  VBAT                         : +3.040 V          │                            │
 │  5VS                          : +5.003 V          │                            │
 │  VCC3V                        : +3.296 V          │                            │
 │  VSB5V                        : +4.992 V          │                            │
 │                                                   ├────────────────────────────│
 │                                                   │  →←: Select Screen         │
 │                                                   │  ↑↓: Select Item           │
 │                                                   │  Enter: Select             │
 │                                                   │  +/-: Change Opt.          │
 │                                                   │  F1: General Help          │
 │                                                   │  F2: Previous Values       │
 │                                                   │  F3: Optimized Defaults    │
 │                                                   │  F4: Save & Exit           │
 │                                                   │  ESC: Exit                 │
 │                                                   │                            │
 └──────────────────────────────────────────────────┴────────────────────────────┘
              Version 2.22.1282 Copyright (C) 2022 AMI
```
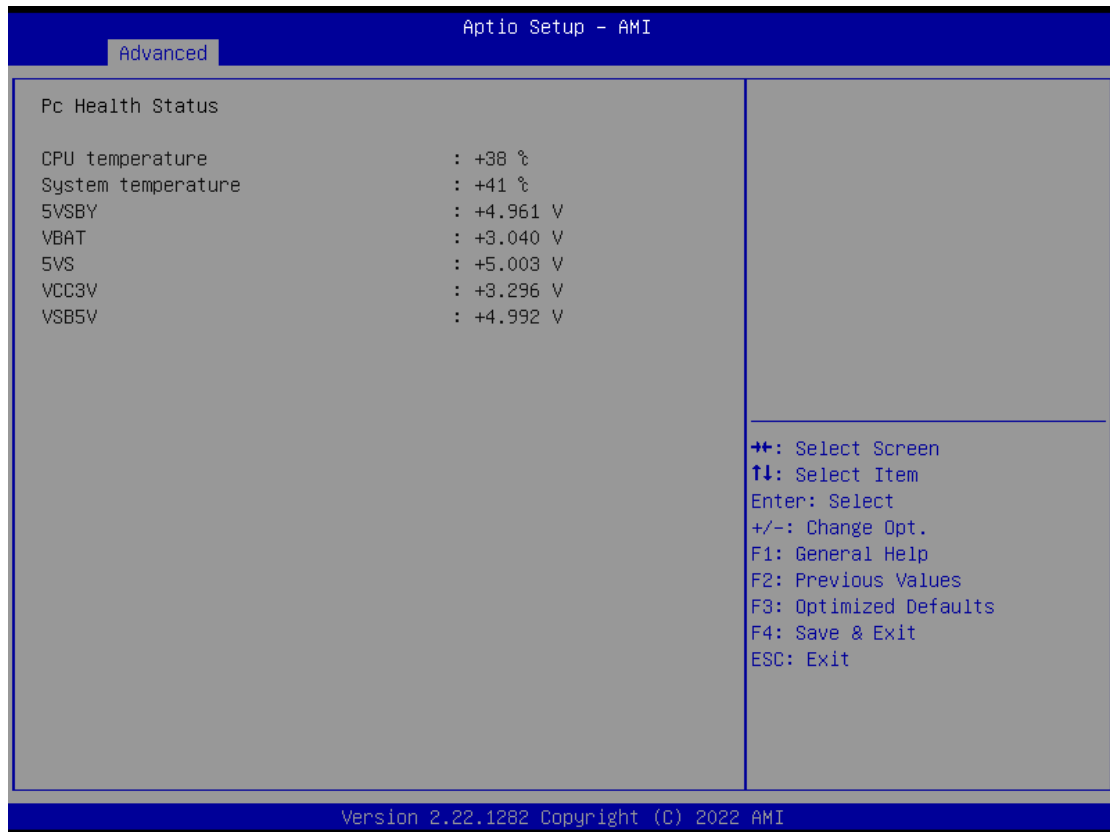
This screen displays the temperature of system and CPU as well as system voltages (VBAT, 5VSBY, 5VS, VCC3V and VSB5V).

DIO Configuration
Users can adjust the option 8-CH DIO default setting via this page.   doesn't
support 8-CH DIO for standard version, users can order the DIO cable kit then change the
option port (COM 3) to support 8-CH TTL DIO.

```
                              Aptio Setup – AMI
     Advanced

  DIO0 Configuration                                   DIO Input/Output setting
  Input/Output                     [Output]
  High/Low                         [High]
  DIO1 Configuration
  Input/Output                     [Output]
  High/Low                         [High]
  DIO2 Configuration
  Input/Output                     [Output]
  High/Low                         [High]
  DIO3 Configuration
  Input/Output                     [Output]
  High/Low                         [High]
  DIO4 Configuration
  Input/Output                     [Output]              ++: Select Screen
  High/Low                         [High]                ↑↓: Select Item
  DIO5 Configuration                                     Enter: Select
  Input/Output                     [Output]              +/-: Change Opt.
  High/Low                         [High]                F1: General Help
  DIO6 Configuration                                     F2: Previous Values
  Input/Output                     [Output]              F3: Optimized Defaults
  High/Low                         [High]                F4: Save & Exit
  DIO7 Configuration                                     ESC: Exit
  Input/Output                     [Output]
  High/Low                         [High]



                   Version 2.22.1282 Copyright (C) 2022 AMI
```

4.5 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings. Users can select any of the items in the left frame of the screen to go to the sub menus:

- ► System Agent (SA) Configurations
- ► PCH-IO Configurations

For items marked with "►", please press <Enter> for more options.

```
                              Aptio Setup - AMI
       Main  Advanced  Chipset  Security  Boot  Save & Exit

    System Agent (SA) Configuration                      Choose PCIE Mini Card as PCIE
                                                         or mSATA
    Memory RC Version              0.0.4.104
     Memory   Size                16384 MB
              Frequency            2667 MTPS

    Channel 1 Slot 0              Populated & Enabled
       Size                       16384 MB (DDR4)
       Number of Ranks            2
       Manufacturer               Kingston

    Graphics Configuration
    IGFX GOP Version              18.0.1041
                                                         ↔: Select Screen
    PCH-IO Configuration                                 ↑↓: Select Item
                                                         Enter: Select
    Mini Card Function            [PCIE]                 +/-: Change Opt.
       SMBus Interface            [Disable]              F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC: Exit



                    Version 2.22.1282 Copyright (C) 2023 AMI
```

Mini Card Function

Choose PCIE Mini Card as PCIE or mSATA

```
                              Aptio Setup - AMI
      Main  Advanced  Chipset  Security  Boot  Save & Exit

   System Agent (SA) Configuration                       Choose PCIE Mini Card as PCIE
                                                         or mSATA
   Memory RC Version            0.0.4.104
    Memory   Size               16384 MB
             Frequency           2667 MTPS

   Channel 1 Slot 0             Populated & Enabled
       Size                     16384 MB (DDR4)
       Number of Ranks          2
       Manufacturer             Kingston
                          ┌─── Mini Card Function ───┐
   Graphics Configuration │ PCIE                     │
   IGFX GOP Version       │ mSATA                    │
                          └──────────────────────────┘  →←: Select Screen
                                                         ↑↓: Select Item
   PCH-IO Configuration                                  Enter: Select
                                                         +/-: Change Opt.
   Mini Card Function          [mSATA]                   F1: General Help
     SMBus Interface           [Disable]                 F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC: Exit




                       Version 2.22.1282 Copyright (C) 2023 AMI
```

BIOS Setup Utility

SMBus Interface

Choose PCIE Mini Card support SMBus Interface only for AX module

```
                           Aptio Setup - AMI
     Main  Advanced  Chipset  Security  Boot  Save & Exit

  System Agent (SA) Configuration                        Choose PCIE Mini Card Support
                                                         SMBus Interface
  Memory RC Version                0.0.4.104
   Memory    Size                  16384 MB
             Frequency              2667 MTPS

  Channel 1 Slot 0                 Populated & Enabled
     Size                          16384 MB (DDR4)
     Number of Ranks               2
     Manufacturer                  Kingston
                         ┌──── SMBus Interface ────┐
                         │ Disable                 │
  Graphics Configuration │ Enable                  │
  IGFX GOP Version        └─────────────────────────┘
                                                         →←: Select Screen
  PCH-IO Configuration                                   ↑↓: Select Item
                                                         Enter: Select
  Mini Card Function               [mSATA]               +/-: Change Opt.
    SMBus Interface                [Disable]             F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC: Exit




               Version 2.22.1282 Copyright (C) 2023 AMI
```

Security Menu

```
                            Aptio Setup – AMI
    Main  Advanced  Chipset  Security  Boot  Save & Exit

   Password Description                        Set Administrator Password

   If ONLY the Administrator's password is set,
   then this only limits access to Setup and is
   only asked for when entering Setup.
   If ONLY the User's password is set, then this
   is a power on password and must be entered to
   boot or enter Setup. In Setup the User will
   have Administrator rights.
   The password length must be
   in the following range:
   Minimum length               3
   Maximum length               20
                                              ──────────────────────────
                                              �→←: Select Screen
   Administrator Password                     ↑↓: Select Item
   User Password                              Enter: Select
                                              +/-: Change Opt.
 ▶ Secure Boot                                F1: General Help
                                              F2: Previous Values
                                              F3: Optimized Defaults
                                              F4: Save & Exit
                                              ESC: Exit




                     Version 2.22.1282 Copyright (C) 2022 AMI
```

Administrator Password
This item indicates whether an administrator password has been set (installed or uninstalled).

User Password
This item indicates whether a user password has been set (installed or uninstalled).

Secure Boot
Secure Boot feature is Active if Secure Boot is Enabled or Disable.

BIOS Setup Utility

Secure Boot

Use this item to enable or disable support for Secure Boot.

```
                              Aptio Setup - AMI
            Security

   System Mode                       Setup                   Secure Boot feature is Active
                                                             if Secure Boot is Enabled,
   Secure Boot                       [Disabled]              Platform Key(PK) is enrolled
                                     Not Active              and the System is in User mode.
                                                             The mode change requires
   Secure Boot Mode                  [Custom]                platform reset
 ▶ Restore Factory Keys
 ▶ Reset To Setup Mode

 ▶ Key Management
                                                             ←→: Select Screen
                                                             ↑↓: Select Item
                                                             Enter: Select
                                                             +/-: Change Opt.
                                                             F1: General Help
                                                             F2: Previous Values
                                                             F3: Optimized Defaults
                                                             F4: Save & Exit
                                                             ESC: Exit




                       Version 2.22.1282 Copyright (C) 2022 AMI
```
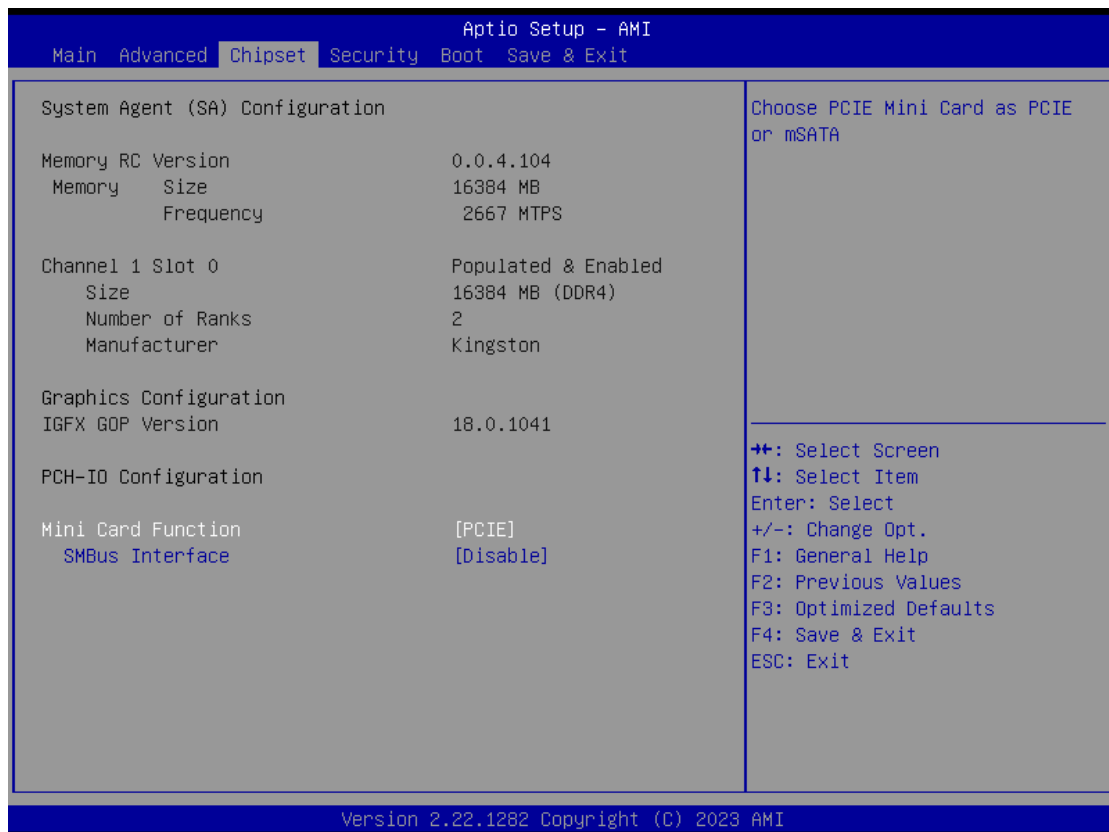
Secure Boot Mode
Secure Boot mode options: Standard or Custom.
In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication

Restore Factory Keys
Force System to User Mode. Install factory default Secure Boot key databases.

Reset to Setup Mode
Delete all Secure Boot key databases from NVRAM.

Key Management
Secure Boot feature is Active if Secure Boot is Enabled or Disable.

Key management

Install factory default Secure Boot key the platform rest and while the System is in Setup mode.

```
                          Aptio Setup - AMI
                Security

  Vendor Keys                         Valid                Install factory default Secure
                                                           Boot keys after the platform
  Factory Key Provision               [Disabled]           reset and while the System is
▶ Restore Factory Keys                                     in Setup mode
▶ Reset To Setup Mode
▶ Export Secure Boot variables
▶ Enroll Efi Image

  Device Guard Ready
▶ Remove 'UEFI CA' from DB
▶ Restore DB defaults

  Secure Boot variable | Size| Keys| Key Source
▶ Platform Key(PK)    |  862|    1| Test(AMI)           →←: Select Screen
▶ Key Exchange Keys   | 1560|    1| Factory             ↑↓: Select Item
▶ Authorized Signatures| 3143|    2| Factory            Enter: Select
▶ Forbidden  Signatures|11064|  192| Factory            +/-: Change Opt.
▶ Authorized TimeStamps|    0|    0| No Keys            F1: General Help
▶ OsRecovery Signatures|    0|    0| No Keys            F2: Previous Values
                                                        F3: Optimized Defaults
                                                        F4: Save & Exit
                                                        ESC: Exit



                Version 2.22.1282 Copyright (C) 2022 AMI
```

```
                          Aptio Setup - AMI
                Security

  Vendor Keys                         Valid                Install factory default Secure
                                                           Boot keys after the platform
  Factory Key Provision               [Disabled]           reset and while the System is
▶ Restore Factory Keys                                     in Setup mode
▶ Reset To Setup Mode
▶ Export Secure Boot variables
▶ Enroll Efi Image

  Device Guard Ready
▶ Remove 'UEFI CA' from DB
▶ Restore DB defaults                ┌── Factory Key Provision ──┐
                                     │ Disabled                  │
  Secure Boot variable | Size| Ke   │ Enabled                   │
▶ Platform Key(PK)    |  862|       │                           │
▶ Key Exchange Keys   | 1560|    1  └───────────────────────────┘  : Select Screen
▶ Authorized Signatures| 3143|    2| Factory                ↓: Select Item
▶ Forbidden  Signatures|11064|  192| Factory            Enter: Select
▶ Authorized TimeStamps|    0|    0| No Keys            +/-: Change Opt.
▶ OsRecovery Signatures|    0|    0| No Keys            F1: General Help
                                                        F2: Previous Values
                                                        F3: Optimized Defaults
                                                        F4: Save & Exit
                                                        ESC: Exit



                Version 2.22.1282 Copyright (C) 2022 AMI
```

4.6 Boot Menu

The Boot menu allows users to change boot options of the system.

```
                            Aptio Setup - AMI
      Main  Advanced  Chipset  Security  Boot  Save & Exit
  ┌─────────────────────────────────────────────────┬──────────────────────────┐
  │  Boot Configuration                              │ Number of seconds to wait for │
  │  Setup Prompt Timeout              1             │ setup activation key.     │
  │  Bootup NumLock State              [On]          │ 65535(0xFFFF) means indefinite │
  │  Quiet Boot                        [Disabled]    │ waiting.                  │
  │  Network Stack                     [Disabled]    │                           │
  │                                                  │                           │
  │  Boot Option Priorities                          │                           │
  │  Boot Option #1                    [UEFI:        │                           │
  │                                    KingstonDataTraveler │                      │
  │                                    2.01.00, Partition 1 │                     │
  │                                    (KingstonDataTraveler │                    │
  │                                    2.01.00)]     │                           │
  │                                                  │ ──────────────────────── │
  │                                                  │ →←: Select Screen        │
  │                                                  │ ↑↓: Select Item          │
  │                                                  │ Enter: Select            │
  │                                                  │ +/-: Change Opt.         │
  │                                                  │ F1: General Help         │
  │                                                  │ F2: Previous Values      │
  │                                                  │ F3: Optimized Defaults   │
  │                                                  │ F4: Save & Exit          │
  │                                                  │ ESC: Exit                │
  │                                                  │                           │
  └─────────────────────────────────────────────────┴──────────────────────────┘
              Version 2.22.1282 Copyright (C) 2022 AMI
```

Setup Prompt Timeout

Use this item to set up number of seconds to wait for setup activation key where 65535(0xFFFF) means indefinite waiting.

Bootup NumLock State

Use this item to select the power-on state for the keyboard NumLock.

Quiet Boot

Select to display either POST output messages or a splash screen during boot-up.

Natwork Stack

Enable/Disable UEFI Network Stack. Default setting is Enabled

Launch PXE OpROM policy
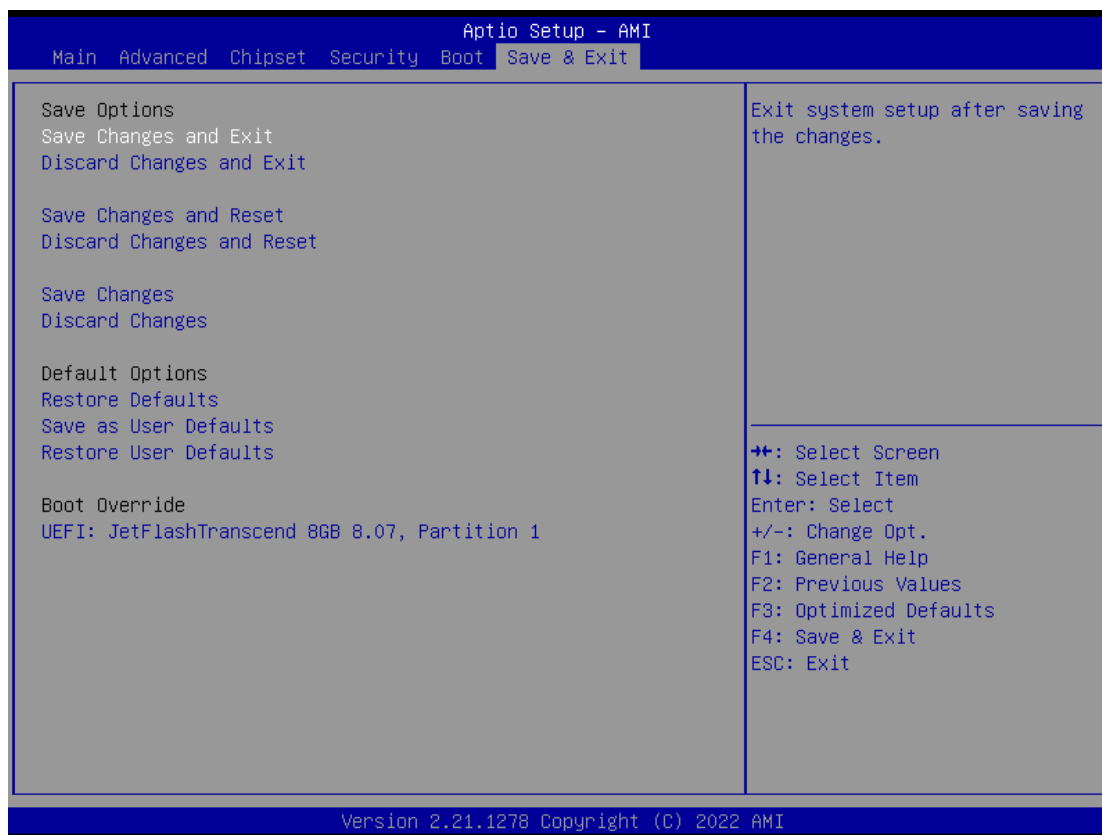
Enables UEFI to run those devices that support UEFI option ROM only. Selecting Legacy enables only devices that support legacy option ROM only.

Boot Option Priorities

These are settings for boot priority. Specify the boot device priority sequence from the available devices.

4.7 Save & Exit Menu

The Save & Exit menu allows users to load system configurations with optimal or fail-safe default values.

```
                          Aptio Setup - AMI
    Main  Advanced  Chipset  Security  Boot  Save & Exit

   Save Options                                  Exit system setup after saving
   Save Changes and Exit                         the changes.
   Discard Changes and Exit

   Save Changes and Reset
   Discard Changes and Reset

   Save Changes
   Discard Changes

   Default Options
   Restore Defaults
   Save as User Defaults                         ─────────────────────────────
   Restore User Defaults
                                                 →←: Select Screen
   Boot Override                                 ↑↓: Select Item
   UEFI: JetFlashTranscend 8GB 8.07, Partition 1 Enter: Select
                                                 +/-: Change Opt.
                                                 F1: General Help
                                                 F2: Previous Values
                                                 F3: Optimized Defaults
                                                 F4: Save & Exit
                                                 ESC: Exit




                   Version 2.21.1278 Copyright (C) 2022 AMI
```

Save Changes and Exit

When users have completed the system configuration changes, select this option to leave Setup and return to Main Menu. Select Save Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to save changes and exit.

Discard Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configurations and return to Main Menu. Select Discard Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to discard changes and exit.

Save Changes and Reset

Having completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configurations take effect. Select Save Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to save changes and reset.

Discard Changes and Reset

Select this option to quit Setup without making any permanent changes to the system configuration and reboot the computer. Select Discard Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to discard changes and reset.

Save Changes

Having completed the system configuration changes, select this option to save changes. Select Save Changes from the Save & Exit menu and press <Enter>. Select Yes to save changes.

Discard Changes

Select this option to quit Setup without making any permanent changes to the system configurations. Select Discard Changes from the Save & Exit menu and press <Enter>. Select Yes to discard changes.

Restore Defaults

It automatically sets all Setup options to a complete set of default settings when users select this option. Select Restore Defaults from the Save & Exit menu and press <Enter>.

Save as User Defaults

Select this option to save system configuration changes done so far as User Defaults. Select Save as User Defaults from the Save & Exit menu and press <Enter>.

Restore User Defaults

It automatically sets all Setup options to a complete set of User Defaults when users select this option. Select Restore User Defaults from the Save & Exit menu and press <Enter>.

Boot Override

Select a drive to immediately boot that device regardless of the current boot order.

This page is intentionally left blank.