USER'S MANUAL

GOT317B-ADL-TRD

All-in-One
17" SXGA TFT Fanless Touch
Panel PC

User's Manual

Disclaimers

This manual has been carefully checked and believed to contain accurate information. Axiomtek Co., Ltd. assumes no responsibility for any infringements of patents or any third party's rights, and any liability arising from such use.

Axiomtek does not warrant or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information in this document. Axiomtek does not make any commitment to update the information in this manual.

Axiomtek reserves the right to change or revise this document and/or product at any time without notice.

No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, among others, without prior written permission from Axiomtek Co., Ltd.

CAUTION

Wrong type of batteries may cause explosion. It is recommended that users only replace with the same or equivalent type of batteries as suggested by the manufacturer once properly disposing of any used ones.

Safety Precautions

Before getting started, please read the following important safety precautions.

1. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any static-shielded devices. Most electronic components are sensitive to static electrical charge.

2. Disconnect the power cord from the GOT317B-ADL-TRD prior to any installation. Be sure both the system and the external devices are turned off. Sudden surge of power could ruin sensitive components. Make sure the GOT317B-ADL-TRD is properly grounded.

3. Do not open the system's top cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:

   ■ Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.

   ■ When handling boards and components, wear a grounding wrist strap available from most electronic component stores.

Trademark Acknowledgments

Axiomtek is a trademark of Axiomtek Co., Ltd.

Windows$^®$ is a trademark of Microsoft Corporation.

Intel$^®$ and Pentium$^®$ are trademarks of Intel Corporation.

AMI is trademark of American Megatrend Inc.

Other brand names and trademarks are the properties and registered brands of their respective owners.

Table of Contents

This page is intentionally left blank.

Section 1
Introduction

This Section contains general information and detailed specifications of the GOT317B-ADL-TRD, including the following Subsections:

Figure 1-1 Front View of the GOT317B-ADL-TRD

- **General Description**
- **Specification**
- **Dimensions and Outlines**
- **I/O Outlets**
- **Package List**

1.1 General Description

The GOT317B-ADL-TRD adopts a 17-inch SXGA TFT LCD with 350-nits brightness, a high performance LGA1700 socket for 13/12th generation Intel® Core™ i7/i5/i3 & Pentium® processor(Tj 100°C) up to 35W,, and an Intel® H610 Express chipset to provide excellent computing performance. Furthermore, GOT317B-ADL-TRD support optional WLAN module & antenna for wireless connectivity.

- **Reliable and stable design**

The GOT317B-ADL-TRD adopts industrial-grade front bezel which incorporates the advantages of light weight, high degree of hardness, better heat releasing, easy-to-shape. With a patented anti-vibration design, the model is able to work in operation mode under 1.0G (10 ~ 500Hz), which has significantly improved system reliability and sustainability. Therefore, the GOT317B-ADL-TRD is especially suitable for most rugged industrial environments.

- **WLAN antenna supported (optional)**

The GOT317B-ADL-TRD supports a WLAN module (optional) antenna for wireless network connectivity.

● **Designed for extended operating temperature range and ingress protection**

The GOT317B-ADL-TRD's compact industrial design and fanless cooling system allow the panel PC to sustain an extended operating temperature range between -10°C and +50°C, makingthe system a power-efficient solution. It also features an IP65 front bezel for protection from liquid and dust.

● **Other features**
The GOT317B-ADL-TRD features one 260-pin DDR4-3200 SO-DIMM socket to support maximum system memory capacity of up to 32GB, along with one 2.5" wide temperature SATA HDD/SSD for storage needs. It also provides a full set of I/O including RS-232/422/485, USB 2.0, USB 3.2 Gen1 , audio (line-out), HDMI and flexible I/O window (on board by option) , as well as Gigabit Ethernet. This slim panel PC option supports panel mount, wall mount, VESA mount, and desktop stand mount to offer more installation flexibility.

1.2 Specifications

Main CPU Board

● **CPU**
  ➢ LGA1700 socket 13/12th generation Intel® Core™ i7/i5/i3 and Pentium® processors.
● **Chipset**
  ➢ Intel® H610.
● **System Memory**
  ➢ 1 x 260-pin DDR4 3200MHz SO-DIMM, up to 32GB
● **BIOS**
  ➢ AMI BIOS via SPI interface.

I/O System

● **Standard I/O**
  1 x Power button
  1 x Phoenix type connector for DC power input (Support Ignition On)
  1 x Grounding hole
  1 x Remote power switch
  2 X USB 3.2 GEN1(Type A)
  2 x USB 2.0
  2 x D-Sub 9P male for COM1~2
      -COM1 supports RS-232/422/485 onboard
      -COM2 supports RS-232 via cable
  2 x HDMI
  1 x Audio Line-out
  1 x Flexible I/O window; supports COM3 (on board by option)

● **Ethernet**
  ➢ LAN1: 1000/100/10Mbps Gigabit/Fast Ethernet supports Wake-on-LAN, PXE with Intel® i219V.
  ➢ LAN2: 2500/1000/100/10Mbps Gigabit/Fast Ethernet supports Wake-on-LAN, PXE with Intel® i225V.

- **Expansion**
  - ➢ 1 x M.2 Key E type 2230 with PCIe x1 and USB 2.0
  - ➢ 1 x PCI Express Mini Card (USB+PCIe signal)
  - ➢ 3 x Antenna (optional)

- **Storage**
  - ➢ 1 x 2.5" SATA HDD(WT)/SSD (7mm and 9.5mm height, removable)

- **Power connector**
  - ➢ 1 x Phoenix type connector for DC power input

Mechanical/Environmental Specifications

- **17" SXGA (1280x1024) LCD 350 nits with LED backlight**

- **5-wire resistive touch**

- **IP65 flat front bezel**

- **Net Weight**

  - ➢ 11 kg (24.25 lbs)

- **Dimensions (Main Body Size)**

  - ➢ 398 mm (15.67") (W) x 77.5mm (3.05") (D) x 330.4mm (13") (H)

- **Operation temperature**

  - ➢ -10°C to 50°C (35W CPU/SSD)

- **Relative humidity**

  - ➢ 10% to 95% @ 40°C, non-condensing

- **System power Input**

  - ➢ 12~24V DC-in via terminal block

NOTE 1. All specifications and images are subject to change without notice.
2. Long press the button of OSD doesn't have "repeat" function.

1.3 Dimensions and Outlines

Diagram 1-1 and 1-2 show the outlines and dimensions of GOT317B-ADL-TRD, respectively.

Diagram 1-1 Outlines of the GOT317B-ADL-TRD

.
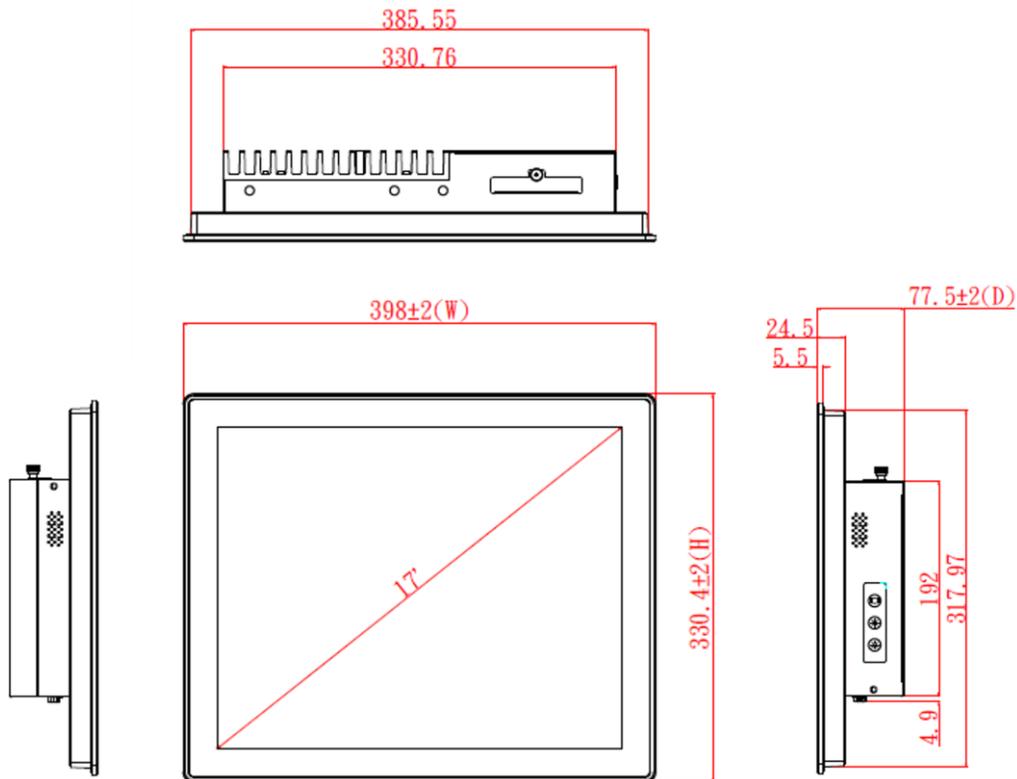
Cut out dimensions: 386.7 x 319 mm
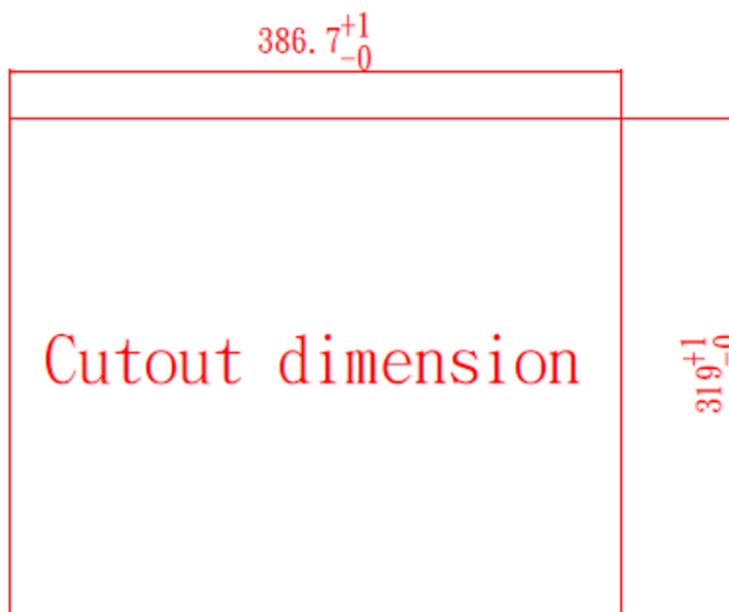
Diagram 1-2 Back outline of the GOT317B-ADL-TRD
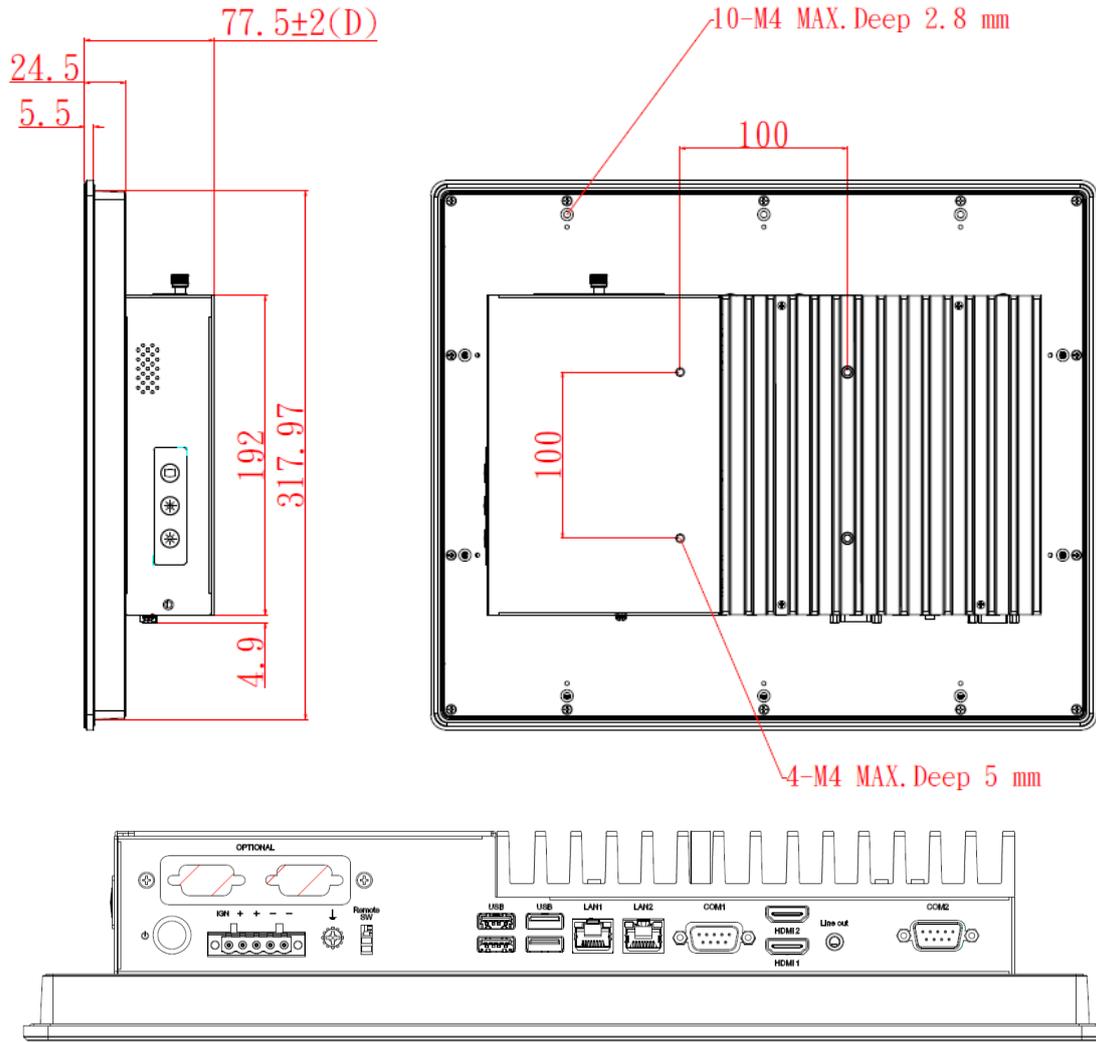
1.4 I/O Outlets

Figure 1-2,1-3 and Table 1-1,1-2 illustrate I/O locations and their functions of the GOT317B-ADL-TRD.

Figure 1-2 Side View of the GOT317B-ADL-TRD

Table 1-1 Functions of the Side panel of the GOT317B-ADL-TRD

No	Function
1	1 x Display monitor ON/OFF
2	1 x Brightness up
3	1 x Brightness down

Figure 1-3 Side View of the GOT317B-ADL-TRD
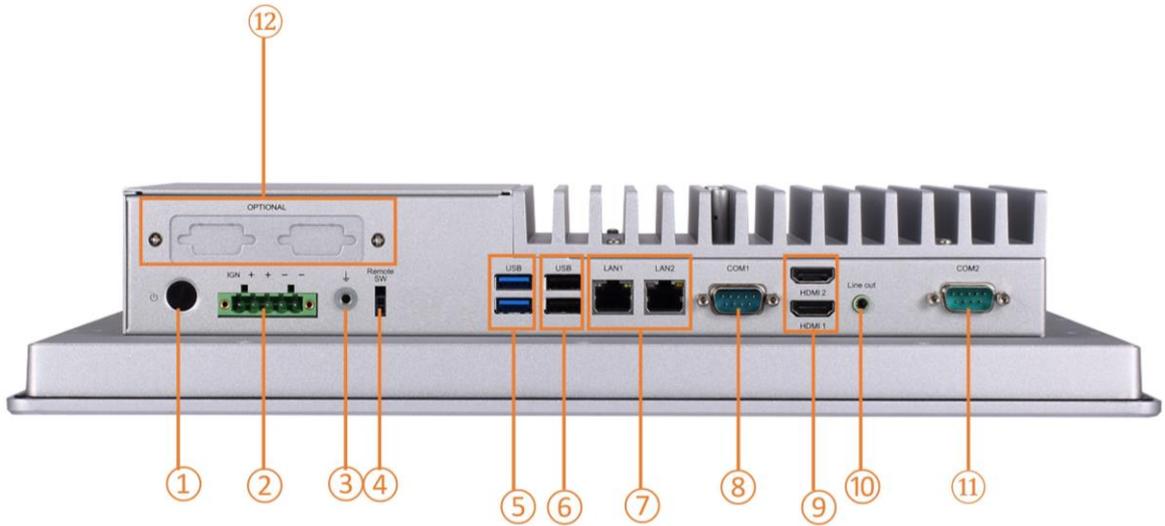
Table 1-2 Functions of the I/O Outlets of the GOT317B-ADL-TRD

No	Function
1	Power Button
2	1 x Phoenix type connector for DC power input
3	Grounding hole
4	Remote power switch
5	2 x USB 3.2 Gen1
6	2 x USB 2.0
7	2 x LAN
8	1 x 9-pin D-sub Male RS-232/422/485
9	2 x HDMI
10	1 x Audio Line-out
11	1 x RS-232 via cable
12	1 x Flexible IO window; supports COM3 (on board by option)

1.5   Packing List

The package bundled with the GOT317B-ADL-TRD should contain the following items:

- **GOT317B-ADL-TRD x 1**
- **Panel mount kit x 10**
- **Wall mount (optional)**
- **Phoenix terminal x 1**

If any above-mentioned item is missing, please contact an Axiomtek distributor immediately.

This page is intentionally left blank.

Section 2
Hardware and Installation

The GOT317B-ADL-TRD provides rich I/O ports and flexible expansion features for users to perform various tasks. This section provides detailed information on the hardware components of the panel PC as well as installation instructions, including the following subsections:

- Open Back Cover
- Jumper ane Connector Settings
- Mounting Methods
- Hardware Installation
- Power input

2.1 Open Back Cover

To open the GOT317B-ADL-TRD, simply unscrew the 4 screws on the rear cover and push the cover to the right side as shown in Figure 2-1, 2-2.

Step 1 Remove the four screws (see red circles in Figure 2-1) on the back cover.

Figure 2-1: Back cover
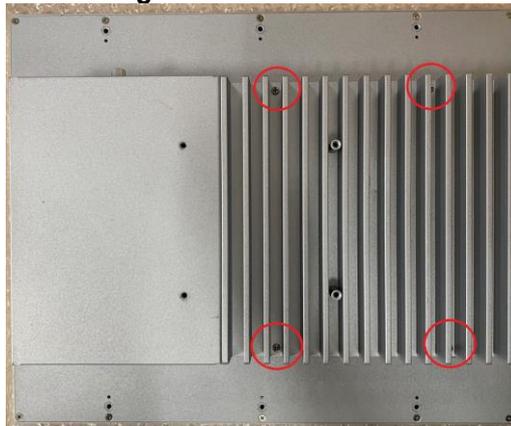
Step 2 After Removing the Rear Cover of the GOT317B-ADL-TRD, install the RAM, storage and any other peripheral.

Figure 2-2:
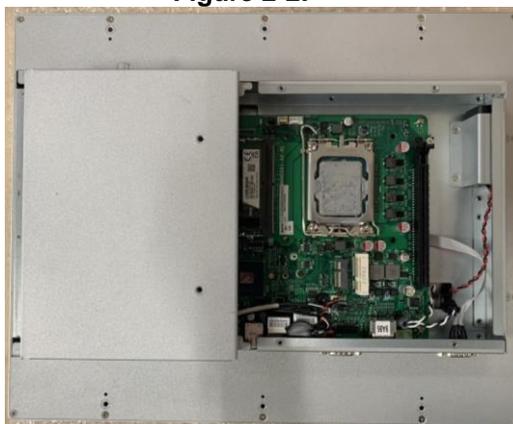
2.2 Jumper and Connector Settings

A jumper is a small component consisting of a jumper clip and jumper pins. Proper configuration of jumper settings enables the GOT317B-ADL-TRD to meet various application purposes.

The illustration below shows how to set up jumpers: Place the jumper clip on two jumper pins to close the jumper pins; remove the jumper clip from two jumper pins to open the jumper pins.

Figure 2-3: Definitions of pin settings
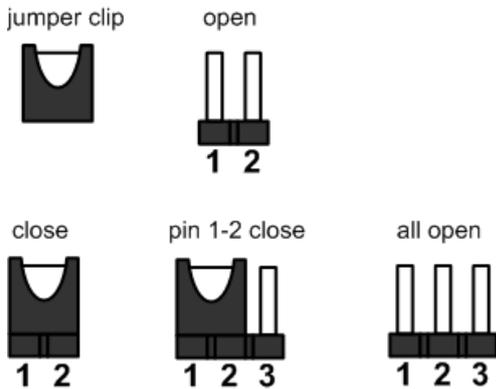
Before applying power to the GOT317B-ADL-TRD series, please make sure the jumpers are in default positions which are defined as follows:

NOTE: ***In case that default jumper setting needs to be changed, please make any change under the power-off condition.***

Table 2-1 Jumper Settings

Jumper	Description	Setting
JP1	COM Data/Power Select Default: RS-232 Data	3-5 Close
		4-6 Close
JP3	Clear CMOS Default: Normal Operation	1-2 Close

2.2.1 COM1 Data/Power Select (JP1)

This is a 3x2-pin (pitch=2.00mm) jumper. The COM1 port has +5V power capability on DCD and +12V on RI by setting JP1.

Function	Setting
Power: Set COM1 pin 1 to +5V	1-3 close
Data: Set COM1 pin 1 to DCD (Default)	3-5 close
Power: Set COM1 pin 9 to +12V	2-4 close
Data: Set COM1 pin 9 to RI (Default)	4-6 close
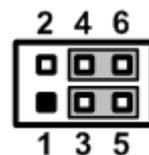
2.2.2 Clear CMOS (JP3)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which includes system setup information such as system passwords.

To erase the RTC RAM:
1. Turn OFF the computer and unplug the power cord.
2. Remove the onboard battery.
3. Move the jumper clip from pins 1-2 (default) to pins 2-3. Keep the clip-on pins 2-3 for about 5~10 seconds, then move the clip back to pins 1-2.
4. Re-install the battery.
5. Plug the power cord and turn ON the computer.
6. Hold down the <Del> key during the boot process and enter BIOS setup to re-enter data.

Function	Setting
Normal operation (Default)	1-2 close
Clear CMOS	2-3 close

2.2.3 COM Port Connector

The CN1 is a double 9-pin D-Sub connector for COM1 and COM2 serial port interfaces on the rear I/O. Only COM1 supports RS-232/422/485 mode. The pin assignments of RS-232/422/485 are listed in table below.

Table 2-2 Pin assignment for RS-232/ 422/ 485

Pin	RS-232 (3T/5R)	RS-422 (1T/1R Full Duplex)	RS-485 (1T/1R TX Enable Low Active)
1	COM1C_DCD [*]	TX (-)	Data (-)
2	COM1C_RXD	TX (+)	Data (+)
3	COM1C_TXD	RX (+)	NC
4	COM1C_DTR	RX (-)	NC
5	GND	GND	GND
6	COM1C_DSR	NC	NC
7	COM1C_RTS	NC	NC
8	COM1C_CTS	NC	NC
9	COM1C_RI [*]	NC	NC
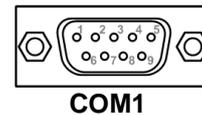
COM1

[*]: Pin 1 of COM1 can be DCD/+5V and pin 9 of COM1 can be RI/+12V by selecting JP1 (see section 2.3.1).

Note

2.2.4 COM2 Headers (CN17)

The motherboard comes with two 2x5-pin (pitch=2.00mm) headers for COM3~COM4 serial port interfaces.

Pin	Signal	Pin	Signal
1	DCD	2	DSR
3	RX	4	RTS
5	TX	6	CTS
7	DTR	8	RI
9	GND	10	NC
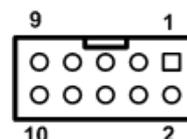
2.2.5 Ethernet Connector

The motherboard supports two Ethernet ports (CN11, CN19): two RJ45 connectors with
CN12: Intel® i225-V controller support 10/100/1000/2500Mbps.
CN9: Intel® i219-V controller support 10/100/1000 Mbps.

Pin	LAN Signal	Pin	LAN Signal
L1	Tx+ (Data transmission positive)	L2	Tx- (Data transmission negative)
L3	Rx+ (Data reception positive)	L4	RJ-1 (For 1000 Base-T only)
L5	RJ-1 (For 1000 Base-T only)	L6	Rx- (Data reception negative)
L7	RJ-1 (For 1000 Base-T only)	L8	RJ-1 (For 1000 Base-T only)
A	Speed LED LAN1: Intel® i219-V OFF: 10Mbps data rate Green: 100Mbps data rate Orange: 1Gbps data rate LAN2: Intel® i225-V OFF: 10/100Mbps data rate Green: 1Gbps data rate Orange: 2.5Gbps data rate	B	Active LED(Yellow) OFF: No link Blinking: Link established; data activity detected
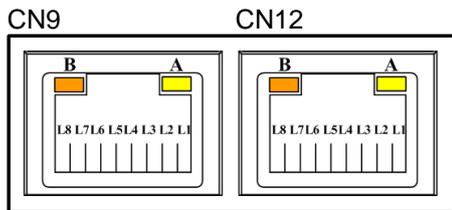
CN9   CN12

Note **CN9/CN12 supports Wake-on-LAN.**

2.3 Mounting Methods

WARNING *Only trained and qualified technicians are permitted to mount the product. To prevent accidental damage to the product or human injury when mounting the product, at least two people are required to perform the installation.*

The GOT317B-ADL-TRDPpanel PC option supports four types of mounting methods.

- **Panel mount**
- **Wall mount**
- **VESA arm mount**
- **Desktop mount**

2.3.1 Panel Mount

Panel mount kit is optional, a set of panel mount kits, including screws and particular hook brackets for panel mounting. Use the panel mount kits to mount the GOT317B-ADL-TRD into a panel.

Step 1 **Prepare a panel frame to accommodate the panel PC. Ensure that the cutout of the frame perfectly fits the monitor's dimensions.**

Step 2 **Put the panel PC into the cutout on the front side of the frame, with the panel PC's front bezel facing the outside, as shown in Figure 2-4.**
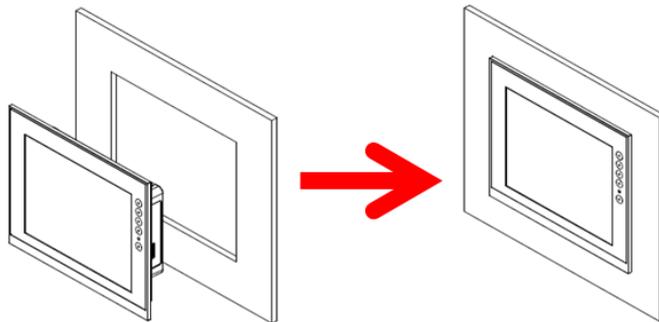
Figure 2-1: Fitting the panel PC into a frame.

Step 3 **Locate the screwing holes and the positions of the hook brackets on the back side of the panel PC, as shown in the Figure 2-2.**
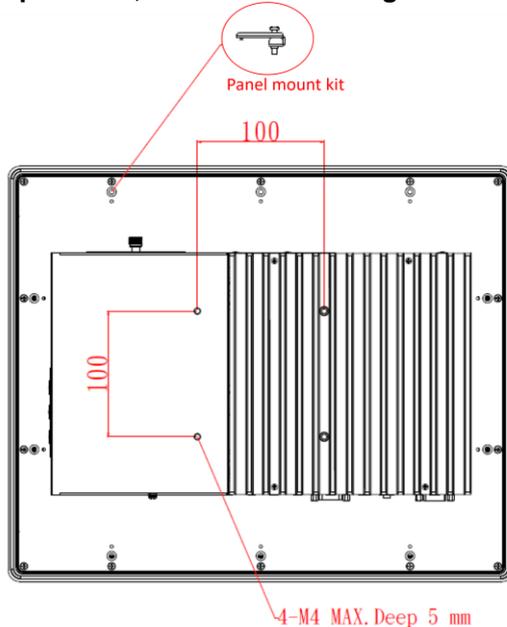
Figure 2-2: Panel mount dimensions (back chassis)

Step 4   **As Figure 2-3 below illustrates, use the panel mount kits to secure the panel PC in the panel frame. Insert the screws through the hook brackets into the corresponding holes on the back chassis of the panel PC. Tighten the screws to fix the panel PC firmly into the panel frame.**
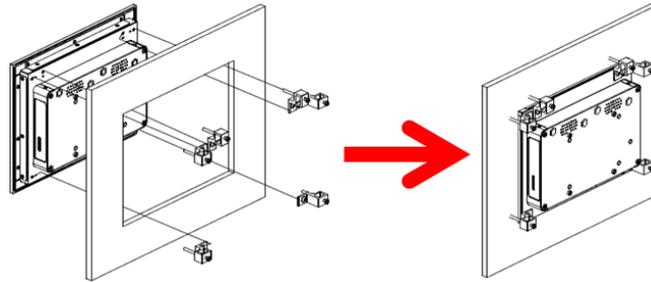
Figure 2-3: Screwing the Panel PC firmly to the panel frame.

2.3.2 Wall Mount

The GOT317B-ADL-TRD can be mounted onto a wall using the wall mount bracket.

Step 1   **On the back chassis of the panel PC, locate the screwing holes for assembling the wall mount bracket, as shown in Figure 2-4.**
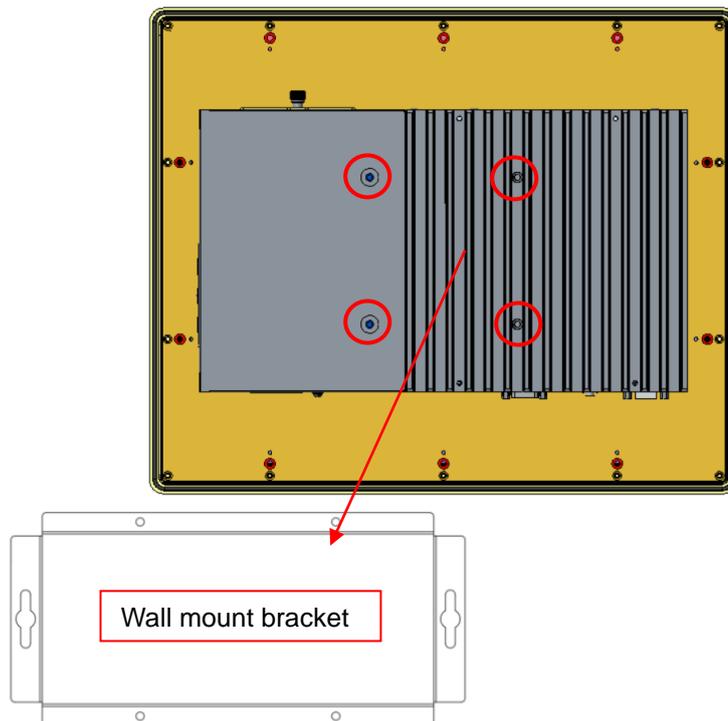
Wall mount bracket

Figure 2-4: Wall mount screwing holes on the back chassis

Step 2   **Attach the wall mount bracket to the back of the panel PC by aligning the screwing openings on the top and bottom edges of the bracket with the screwing holes on the back chassis. Then screw the bracket firmly to the back of the panel PC, as illustrated in Figure 2-5.**
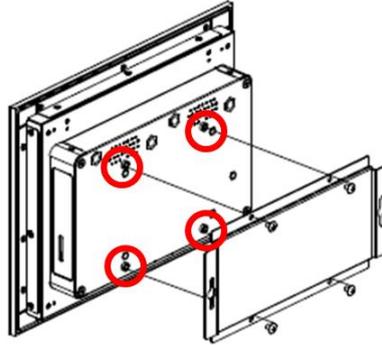
Figure 2-5: Attaching the wall mount bracket

Step 3   **Select an appropriate location on the wall to mount the panel PC, as illustrated below.**
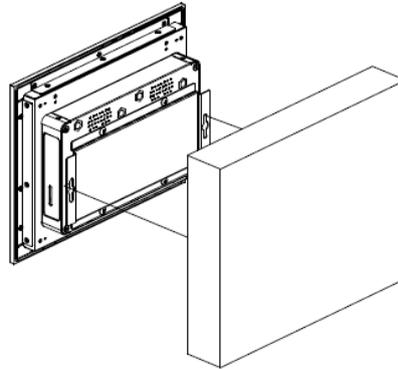
Figure 2-6: Mounting the panel PC on the wall

2.3.3 VESA Mount

Alternatively, the GOT317B-ADL-TRD supports VESA arm mount by using a VESA arm kit attached to the back, allowing users to tilt or rotate the panel PC for best visibility. Refer to the following steps when adopting VESA arm mount for the panel PC.

Step 1   **Locate the four screwing holes on the back side of the panel PC.**
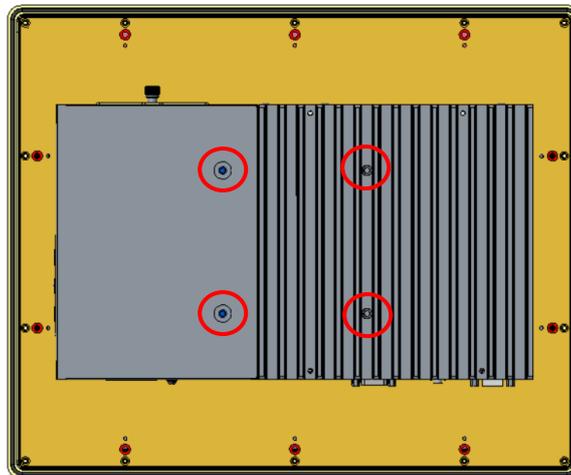
Figure 2-7: VESA mount screwing holes on the back chassis

Step 2 As illustrated below, assemble the VESA arm kit to the back chassis of the panel PC. Tighten the four screws to fasten the VESA arm kit firmly to the back chassis.

Diagram 1-2 Back outline of the GOT317B-ADL-TRD
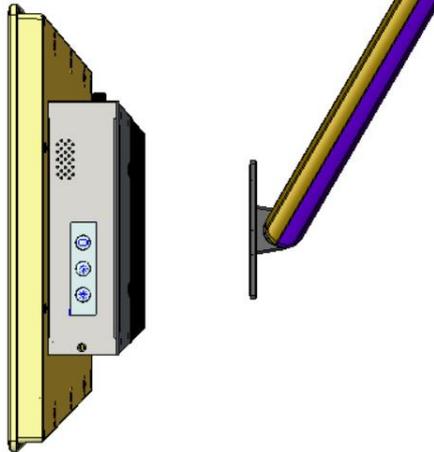
Figure 2-8: Assembling the VESA mount kit to the panel PC

2.3.4 Desktop Mount

Desktop mount is used to mount the GOT317B-ADL-TRD on the desk using a desktop stand. After assembling the desktop mount kit to the back of the panel PC, users can mount the unit on the desk.

Step 1 Locate the screwing openings on the desktop mount bracket, as marked in the figure below.

Step 2 As illustrated, assemble the stand to the desktop mount bracket on the back of the panel PC. Tighten the screws firmly into the screwing spots to secure the stand in place.
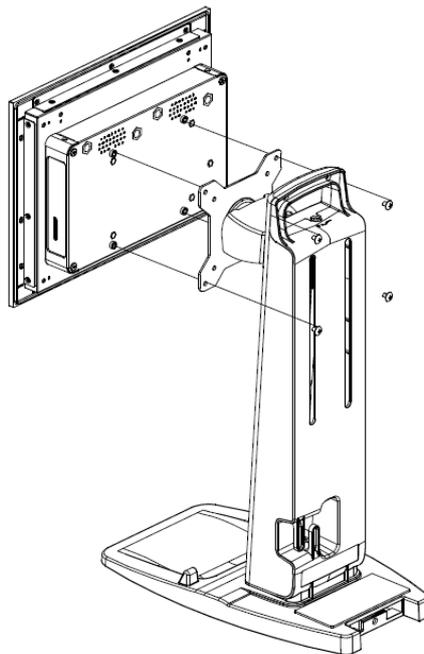
Figure 2-9: Assembling the desktop stand to the panel PC

2.4　Hardware Installation

2.4.1　Installing an SSD

The GOT317B-ADL-TRD provides a convenient SSD bracket for users to install
1 x 2.5" SATA SSD. Please follow the steps:

Step 1　　**Refer section 2.1 to open the back cover and push the back cover to the right.**
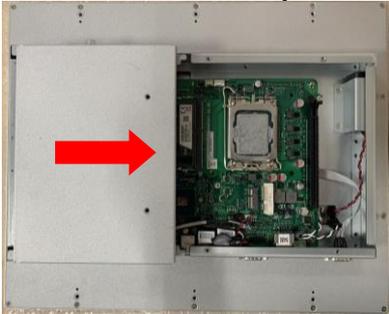
Step 2　　**Unfasten the bracket screw and then slide the SSD bracket out of the system unit.**
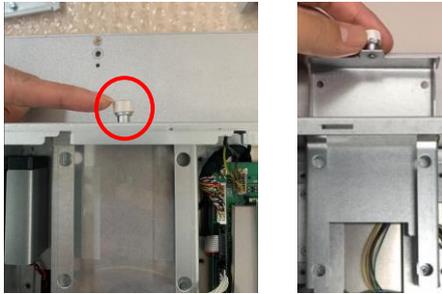
Step 3　　**Insert the 2.5" SSD into the bracket and fasten the four screws on the bottom side of the bracket to hold the HDD firmly to the bracket.**
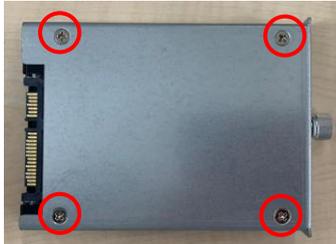
Step 4　　**Slide the bracket back into the system unit.**

Step 5　　**Plug the "SATA + Power" connector into the SSD.**

Step 6　　**Fasten the bracket screw to complete installation.**
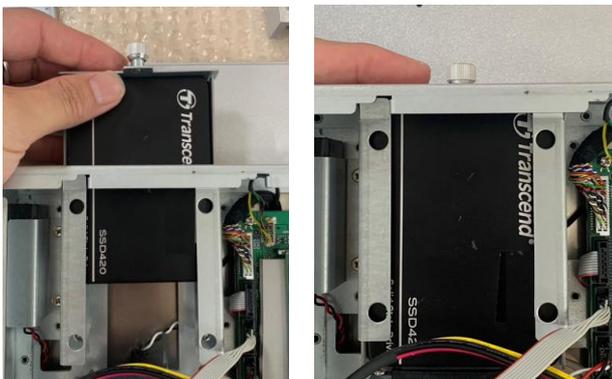
2.4.2 DRAM Installation

The GOT317B-ADL-TRD provides one 260-pin DDR4 SO-DIMM socket that support system memory up to 32GB. Please follow steps below to install the memory modules:

Step 1   **Refer to section 2.1 to open the back cover and locate the DIMM socket on the mainboard (MANO561).**

Step 2   **Install the Long-DIMM module into the slot and press it firmly down until it seats correctly.**

Step 3   **In the red box in the left picture, place the Thermal Pad on the iron block. (shown in the red box in the right picture)**
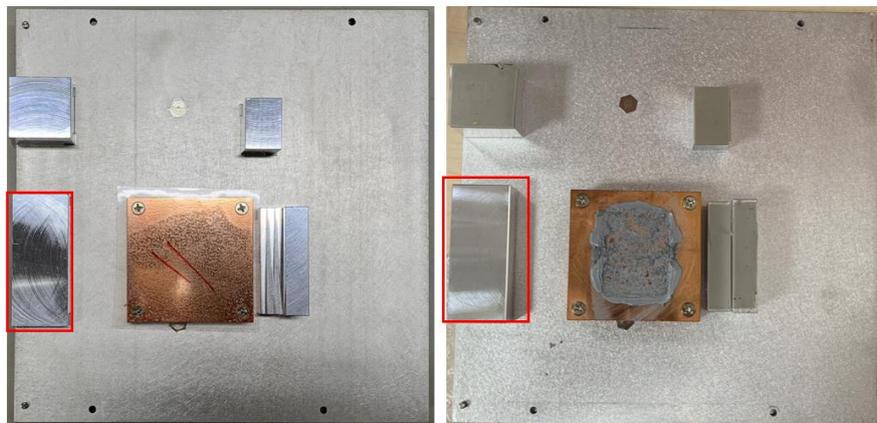
2.4.3 Wireless LAN Module Installation (optional)

The GOT317B-ADL-TRD provides optional wireless LAN module to install. When installing the wireless LAN module, refer to the following instructions and illustration:

Step 1   Refer to section 2.1 to open the back cover and locate PCIe Mini-Card slot.

Step 2   Insert wireless LAN module to Mini card slot and fixing it by a screw.

Step 3   Lift the rubber stopper from the top of back cover.

Step 4   Install the antenna on the antenna connector.

2.5   Power Input

The GOT317B-ADL-TRD is equipped with a Phoenix type power connector which supports 12V/19V/24VDC in. Please follow the signs on the power connector to connect to DC power source (see Figure 2-1).

Figure 2-10: Power connector

+: Power positive   －:Power negative
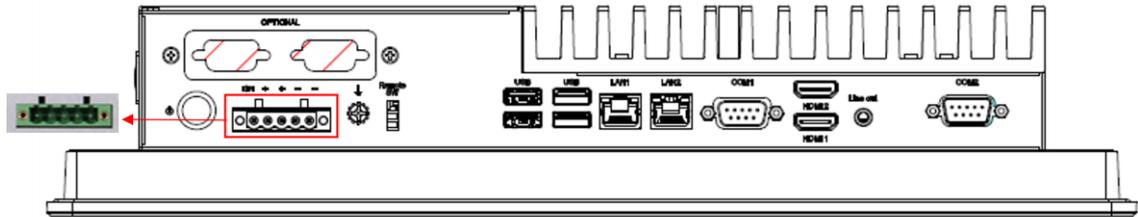
	The safety ground must be connected to ensure that the unit works appropriately.
NOTE	

Section 3
AMI BIOS Setup Utility

The AMI UEFI BIOS provides users with a built-in setup program to modify basic system configuration. All configured parameters are stored in a flash chip to save the setup information whenever the power is turned off. This Section provides users with detailed description about how to set up basic system configuration through the AMI BIOS setup utility.

3.1   Starting

To enter the setup screens, follow the steps below:

1.   Turn on the computer and press <Del> during the Power On Self-Test (POST) to enter BIOS setup, otherwise, POST will continue with its test routines.
2.   Once you enter the BIOS, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Advanced and Chipset menus.
It is strongly recommended that you should avoid changing the chipset's defaults. Both AMI and your system manufacturer have carefully set up these defaults that provide the best performance and reliability.

3.2   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>, <F9>, <F10>, <F11>, <F12>, <Enter>, <ESC>, <Arrow> keys, and so on.

NOTE: Some of the navigation keys differ from one screen to another.

Hot Keys	Description
→← Left/Right	The Left and Right <Arrow> keys allow you to select a setup screen.
↑↓ Up/Down	The Up and Down <Arrow> keys allow you to select a setup screen or sub screen.
Enter	The <Enter> key allows you to display or change the setup option listed for a particular setup item. The <Enter> key can also allow you to display the setup sub screens.
+– Plus/Minus	The Plus and Minus <Arrow> keys allow you to change the field value of a particular setup item.
F1	The <F1> key allows you to display the General Help screen.
F9	The <F9> key allows you to Load Optimized Defaults.
F10	The <F10> key allows you to save any changes you have made and exit Setup.
F11	The <F11> key allows you to print the BIOS setting screen.
F12	The <F12> key allows you to update BIOS.
Esc	The <Esc> key allows you to discard any changes you have made and exit the Setup. Press the <Esc> key to exit the setup without saving your changes.

3.3 Main Menu

When you first enter the setup utility, you will enter the Main setup screen. You 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 shown below.

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

   BIOS Information                                     Choose the system default
                                                        language
   Compliancy                    UEFI 2.8; PI 1.7
   Model Name                    MANO561
   BIOS Version                  MANO561 D2.00
   Build Date                    11/28/2023

   Access Level                  Administrator

   Total Memory                  16384 MB
   Memory Frequency               2667 MHz (DDR4)

   System Language               [English]
                                                        →←: Select Screen
   System Date                   [Fri 02/02/2024]       ↑↓: Select Item
   System Time                   [00:54:08]             Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F3: Optimized Defaults
                                                        F10: Save & Exit
                                                        F11: Print Screen
                                                        F12: BIOS Flash
                                                        ESC: Exit


                    Version 2.22.1286 Copyright (C) 2023 AMI
```

BIOS Information
Display system BIOS information.

System Language
Use this option to choose the system default language.

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.

3.4 Advanced Menu

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

- ► Connectivity Configuration
- ► CPU Configuration
- ► SATA Configuration
- ► Trusted Computing
- ► ACPI Settings
- ► F81966 Super IO Configuration
- ► Hardware Monitor
- ► Smart Fan Mode Configuration
- ► USB Configuration
- ► Network Stack Configuration
- ► Offboard PCIe SATA Controller

For items marked with" ►", please press <Enter> for more options.
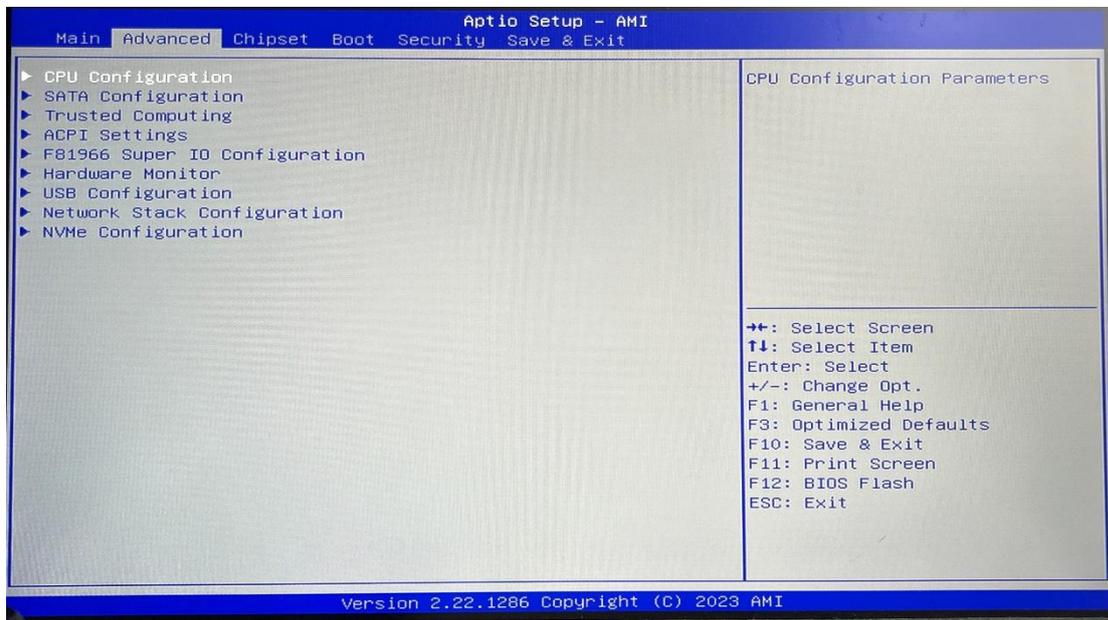
● **CPU Configuration**
This screen shows CPU information.
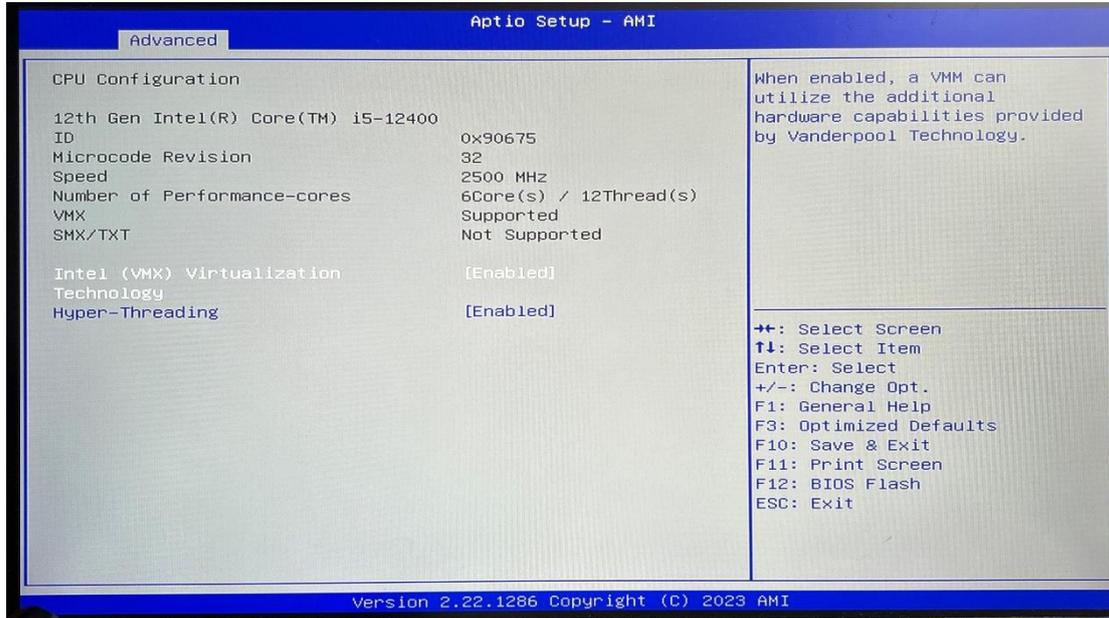
Intel (VMX) Virtualization Technology
Enable or disable Intel Virtualization Technology. When enabled, a VMM (Virtual Machine Mode) can utilize the additional hardware capabilities. It allows a platform to run multiple operating systems and applications independently, hence enabling a single computer system to work as several virtual systems.

Hyper-Threading
Enable or disable Hyper-Threading. When enabled, it allows a single physical processor to multitask as multiple logical processors. When disabled, only one thread per enabled core is enabled.

Turbo Mode
Enable or disable processor Turbo Mode (requires Intel® Speed Step or Intel® Speed Shift to available and enabled) allows processor cores to run faster but not exceed CPU defined frequency limits.

● **SATA Configuration**

During system boot up, BIOS automatically detects the presence of SATA devices. In the SATA Configuration menu, you can see all currently installed SATA device(s).

.

```
                              Aptio Setup - AMI
      Advanced

 SATA Configuration                                    Enable/Disable SATA Device.

 SATA Controller(s)                [Enabled]

 SATA_1                            AXIOMTEK Corp. (128.0GB)




                                                       →←: Select Screen
                                                       ↑↓: Select Item
                                                       Enter: Select
                                                       +/-: Change Opt.
                                                       F1: General Help
                                                       F3: Optimized Defaults
                                                       F10: Save & Exit
                                                       F11: Print Screen
                                                       F12: BIOS Flash
                                                       ESC: Exit



                    Version 2.22.1286 Copyright (C) 2023 AMI
```
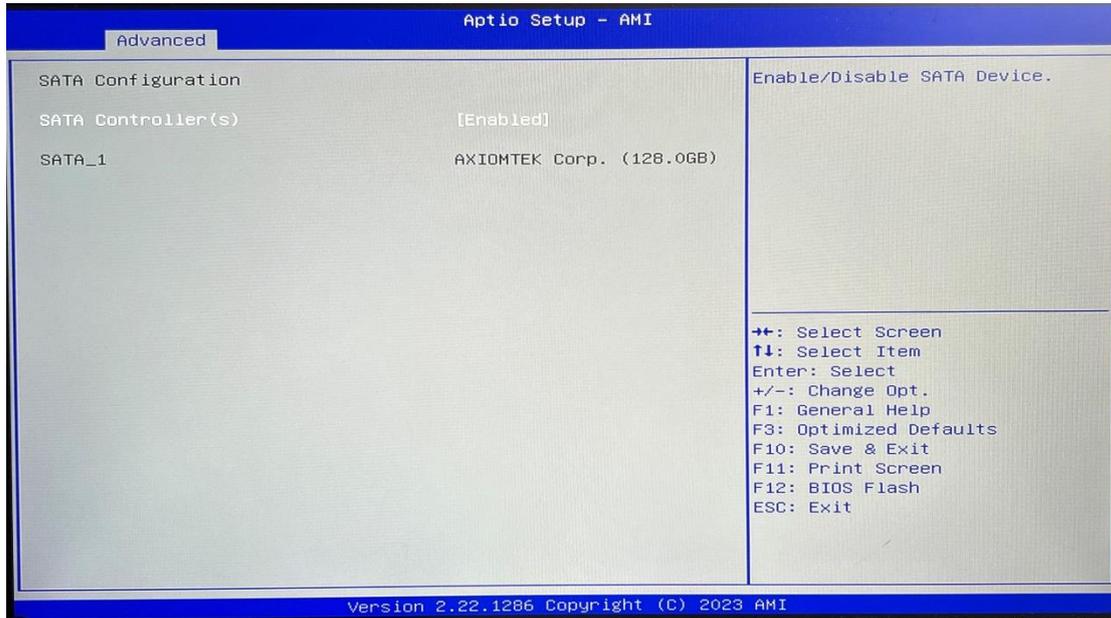
SATA Controller(s)

Enable or disable the SATA Controller feature.

► **ACPI Settings**

```
                              Aptio Setup - AMI
      Advanced

 ACPI Settings                                         Select the highest ACPI sleep
                                                       state the system will enter
                                                       when the SUSPEND button is
 ACPI Sleep State            [S3 (Suspend to RAM)]     pressed.
 S3 Video Repost            [Disabled]
 Restore AC Power Loss      [Power Off]
 PME Wake up from S5        [Disabled]
 Wake system with Fixed Time [Disabled]
 Wake up date              [EveryDay]
 Wake up hour              0
 Wake up minute            0
 Wake up second            0

                                                       →←: Select Screen
                                                       ↑↓: Select Item
                                                       Enter: Select
                                                       +/-: Change Opt.
                                                       F1: General Help
                                                       F9: Optimized Defaults
                                                       F10: Save & Exit
                                                       F11: Print Screen
                                                       F12: BIOS Flash
                                                       ESC: Exit



                    Version 2.22.1282 Copyright (C) 2022 AMI
```

ACPI Sleep State

When the suspend button is pressed, the ACPI (Advanced Configuration and Power Interface) sleep state is S3 (Suspend to RAM).

S3 Video Repost
On enabling, Video Option ROM will be dispatched during S3 resume.

Restore AC Power Loss
Decide the state of system when power is re-applied after a power failure.
- Power Off: Keep the power off until the power button is pressed.
- Power On: Restore power to the computer.

PME Wake up from S5
Enable system to wake from S5 using PME event.

Wake System with Fixed Time
Enable or disable system wake on alarm event. When enabled, system will wake on the hr: min:sec specified..

● **F81966 Super IO Configuration**
You can use this screen to select options for the Super IO Configuration 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.
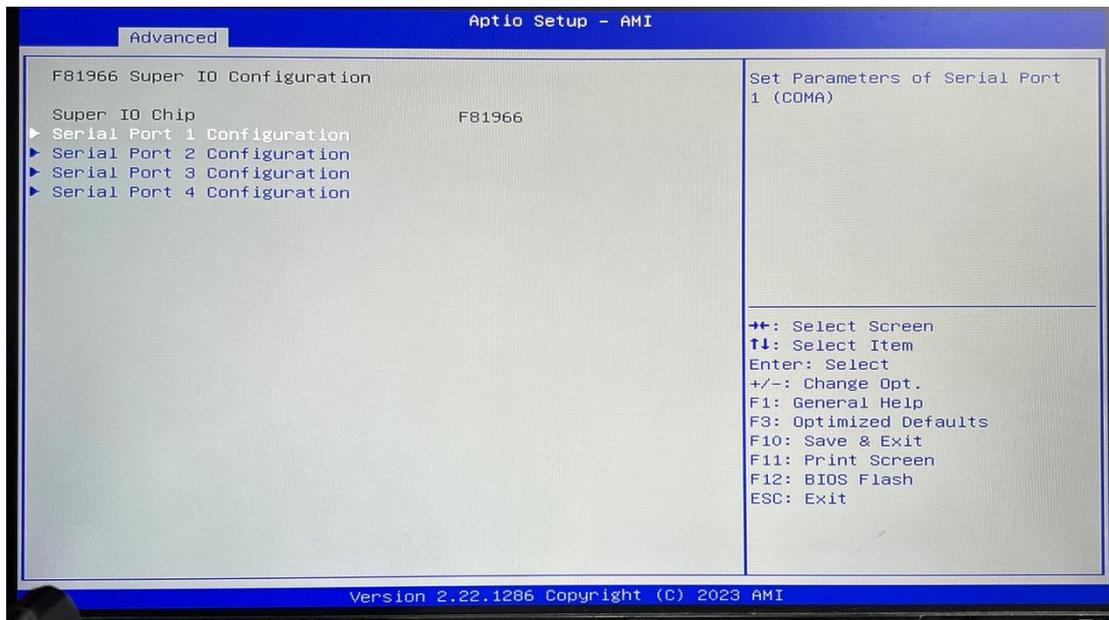
Serial Port 1~4 Configuration
Use these items to set parameters related to serial port 1~4.

UART IRQ Mode
PCI IRQ sharing for OS (ex. Windows), ISA IRQ for Dos.

Watch Dog Degree
Watchdog degree selection in minute or second.

Watch Dog Timer
Watchdog timer value range from 1 to 255. Set 0 will disable watchdog timer.

► **Serial Port 1 Configuration**

```
                                Aptio Setup - AMI
        Advanced

  Serial Port 1 Configuration                             COM Port Type selection
                                                           RS232
  Serial Port                      [Enabled]               RS485
  Device Settings                  IO=3F8h; IRQ=4;         RS422

  Change Settings                  [Auto]
  COM1 Port Type                   [RS232]




                            ┌──── COM1 Port Type ────┐
                            │ RS232                   │
                            │ RS485                   │    ↔: Select Screen
                            │ RS422                   │    ↑↓: Select Item
                            └─────────────────────────┘    Enter: Select
                                                           +/-: Change Opt.
                                                           F1: General Help
                                                           F9: Optimized Defaults
                                                           F10: Save & Exit
                                                           F11: Print Screen
                                                           F12: BIOS Flash
                                                           ESC: Exit



                      Version 2.22.1282 Copyright (C) 2022 AMI
```

Serial Port
Enable or disable serial port 1.

Change Settings
Select an optimal setting for Super IO device.
- Auto
- IO=3F8h, IRQ=4;
- IO=3F8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2F8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=3E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

COM1 Port Type
Select RS-232/422/485 mode for serial port 1.

● **Serial Port 2~4 Configuration**

```
                          Aptio Setup – AMI
      Advanced

   Serial Port 2 Configuration                        Enable or Disable Serial Port
                                                       (COM)
   Serial Port                    [Enabled]
   Device Settings                IO=2F8h; IRQ=3;

   Change Settings                [Auto]




                                                       ↔: Select Screen
                                                       ↑↓: Select Item
                                                       Enter: Select
                                                       +/-: Change Opt.
                                                       F1: General Help
                                                       F9: Optimized Defaults
                                                       F10: Save & Exit
                                                       F11: Print Screen
                                                       F12: BIOS Flash
                                                       ESC: Exit



                 Version 2.22.1282 Copyright (C) 2022 AMI
```
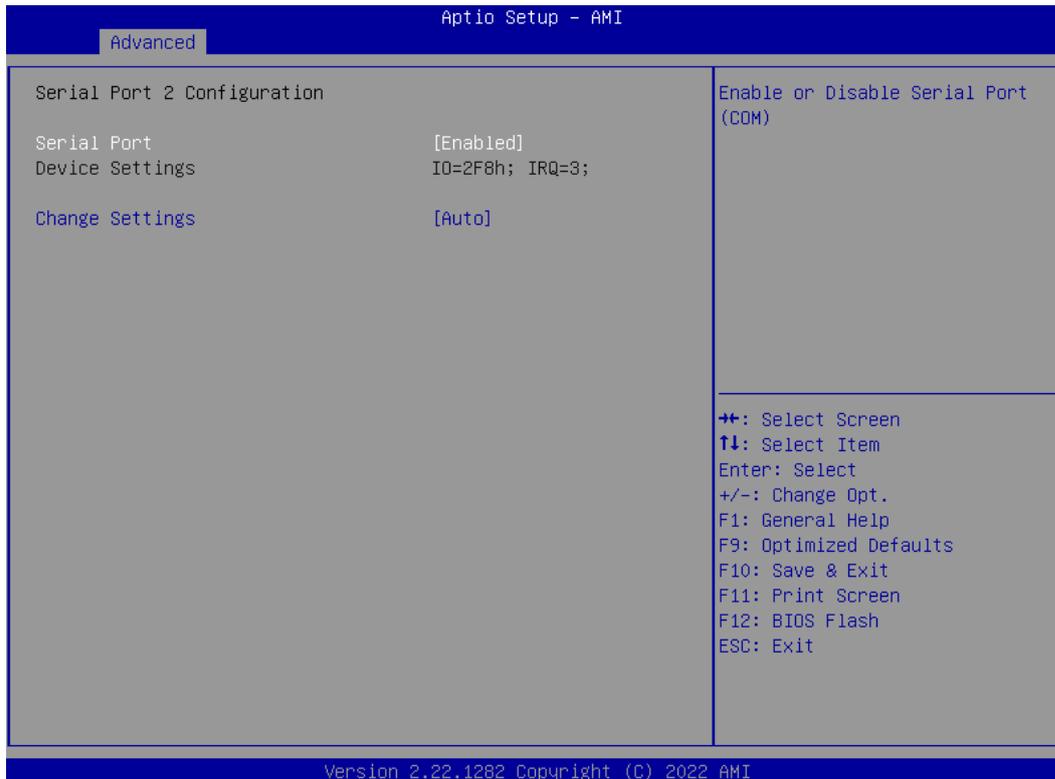
Serial Port
Enable or disable serial port 2~4.

Change Settings
Select an optimal setting for Super IO device.
For serial port 2:
- Auto
- IO=2F8h, IRQ=3;
- IO=3F8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2F8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=3E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

For serial port 3:
- Auto
- IO=3E8h, IRQ=7;
- IO=3E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2F0h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E0h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

For serial port 4:
- Auto
- IO=2E8h, IRQ=7;
- IO=3E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E8h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2F0h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;
- IO=2E0h, IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

● **Hardware Monitor**
  This screen monitors hardware health status.
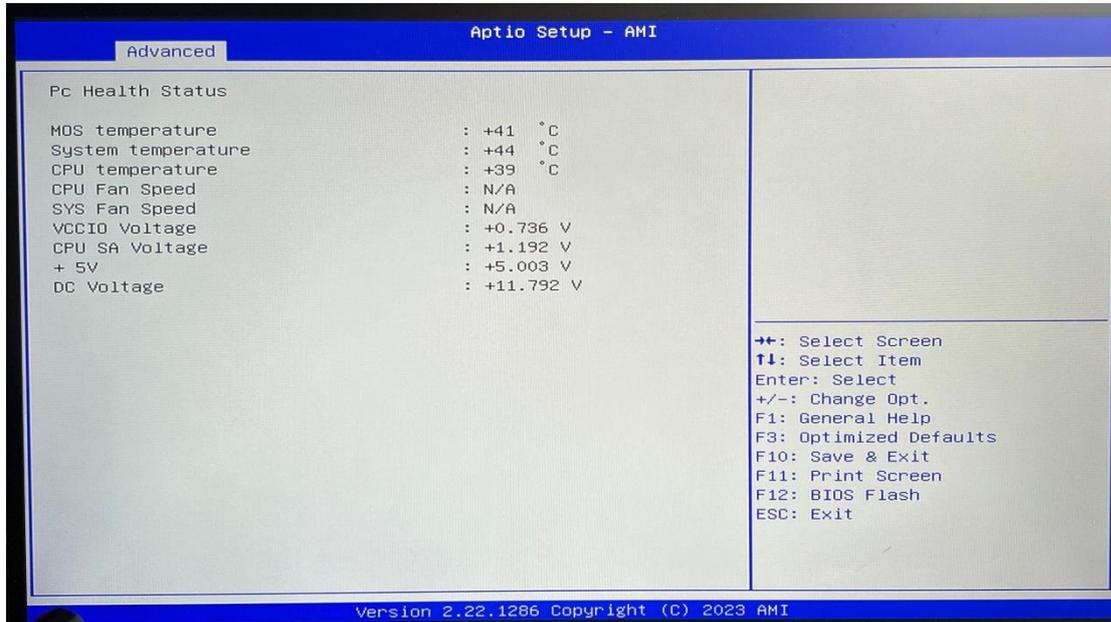
This screen displays the temperature of system and CPU, cooling fans speed in RPM and system voltages (VCCIO, CPU SA, +5V and +12V).

● **USB Configuration**

```
                              Aptio Setup - AMI
       Advanced

  USB Configuration

  USB Module Version              28

  USB Controllers:
       1 XHCI
  USB Devices:
       1 Drive, 1 Keyboard, 1 Mouse

                                              →←: Select Screen
                                              ↑↓: Select Item
                                              Enter: Select
                                              +/-: Change Opt.
                                              F1: General Help
                                              F9: Optimized Defaults
                                              F10: Save & Exit
                                              F11: Print Screen
                                              F12: BIOS Flash
                                              ESC: Exit


                 Version 2.22.1282 Copyright (C) 2022 AMI
```
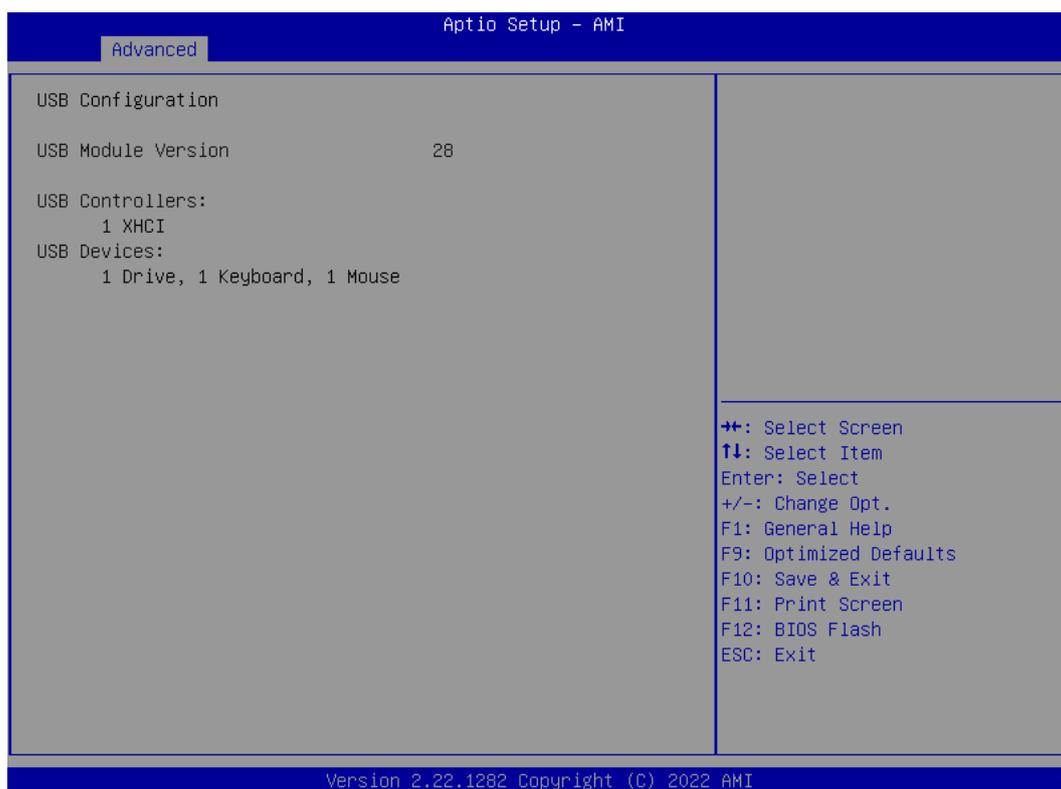
USB Devices
Display all detected USB devices

● **Network Stack Configuration**

```
                             Aptio Setup - AMI
        Advanced

   Network Stack                    [Enabled]            Enable/Disable UEFI Network
   IPv4 PXE Support                 [Disabled]           Stack
   IPv4 HTTP Support                [Disabled]
   IPv6 PXE Support                 [Disabled]
   IPv6 HTTP Support                [Disabled]
   PXE boot wait time               0
   Media detect count               1



                                                        ↔: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F9: Optimized Defaults
                                                        F10: Save & Exit
                                                        F11: Print Screen
                                                        F12: BIOS Flash
                                                        ESC: Exit



                     Version 2.22.1282 Copyright (C) 2022 AMI
```

Network Stack
Enable or disable UEFI Network Stack.

IPv4/IPv6 PXE Support
Enable or disable IPv4 PXE boot support. If disabled, IPv4/IPv6 PXE boot support will not be available.

IPv4/IPv6 HTTP Support
Enable or disable IPv4/IPv6 HTTP boot support. If disabled, IPv4/IPv6 HTTP boot support will not be available.

PXE boot wait time
Wait time in seconds to press <ESC> key to abort the PXE boot. Use either *+/-* or numeric keys to set the value.

Media detect count
Number of times the presence of media will be checked. Use either *+/-* or numeric keys to set the value.

3.5   Chipset Menu

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

> ►   PCH-IO Configuration
> ►   Onboard Device
> ►   RTD213x eDP-LVDS

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

.
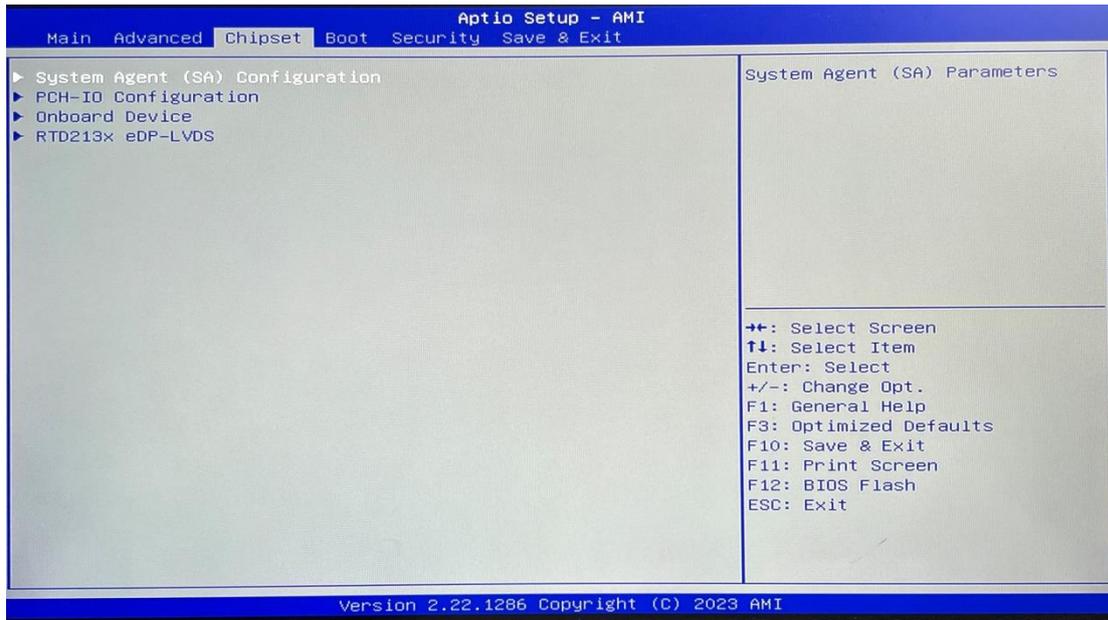
● **PCH-IO Configuration**
This screen allows you to set PCH parameters.

```
                              Aptio Setup - AMI
        Chipset

     PCH-IO Configuration                              PCI Express Configuration
                                                       settings
   ▶ PCI Express Configuration
     HD Audio                      [Enabled]
     ErP Control                   [Disabled]
     BIOS Lock                     [Disabled]




                                                       ++: Select Screen
                                                       ↑↓: Select Item
                                                       Enter: Select
                                                       +/-: Change Opt.
                                                       F1: General Help
                                                       F9: Optimized Defaults
                                                       F10: Save & Exit
                                                       F11: Print Screen
                                                       F12: BIOS Flash
                                                       ESC: Exit



                      Version 2.22.1282 Copyright (C) 2022 AMI
```

HD Audio
Control detection of the HD Audio device.
- Disabled: HDA will be unconditionally disabled.
- Enabled: HDA will be unconditionally enabled.
- Auto: HDA will be enabled if present, disabled otherwise.

ErP Control
When ErP is enabled, system meets ErP requirement.

BIOS Lock
Enable or disable the PCH BIOS Lock Enable feature. Required to be enabled to ensure SMM protection of flash.

● **Onboard Device**

```
                              Aptio Setup – AMI
        Chipset

Onboard Device                                         Enable/Disable Onboard LAN1

LAN1 MAC ID = 00-60-E0-68-D0-D1
LAN2 MAC ID = 00-60-E0-68-D0-D0

Onboard LAN1                     [Enabled]
Onboard LAN2                     [Enabled]



                                                      ←→: Select Screen
                                                      ↑↓: Select Item
                                                      Enter: Select
                                                      +/-: Change Opt.
                                                      F1: General Help
                                                      F9: Optimized Defaults
                                                      F10: Save & Exit
                                                      F11: Print Screen
                                                      F12: BIOS Flash
                                                      ESC: Exit



                    Version 2.22.1282 Copyright (C) 2022 AMI
```
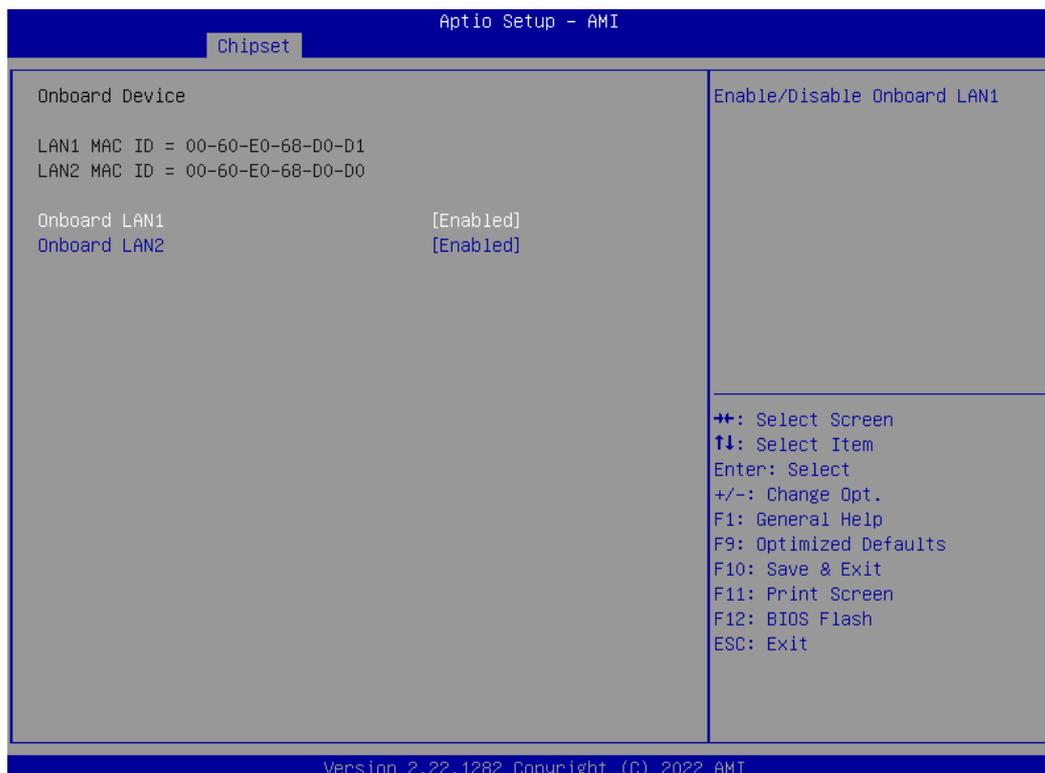
Onboard LAN 1/2
Enable or disable onboard LAN 1/2.

3.6   Boot Menu

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

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

   Boot Configuration                              Number of seconds to wait for
   Setup Prompt Timeout              1             setup activation key.
   Full Screen Logo Display          [Enabled]     65535(0xFFFF) means indefinite
   Boot Success Beep                 [Enabled]     waiting.

   CSM Support                       [Disabled]

   Boot Option Priorities
   Boot Option #1                    [Windows Boot Manag...]
   Boot Option #2                    [UEFI:  USB, Partit...]

                                                   →←: Select Screen
                                                   ↑↓: Select Item
                                                   Enter: Select
                                                   +/-: Change Opt.
                                                   F1: General Help
                                                   F9: Optimized Defaults
                                                   F10: Save & Exit
                                                   F11: Print Screen
                                                   F12: BIOS Flash
                                                   ESC: Exit

                  Version 2.22.1282 Copyright (C) 2022 AMI
```

Setup Prompt Timeout
Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Full Screen Logo Display.
Enable or disable full screen logo display feature.

Boot Success Beep
Enable or disable beep sound after successful boot.

**CSM Support**
Enable or disable to launch the CSM (Compatibility Support Module) support. Please do not disable unless you're running a WHCK test. If you are using Windows® 8 64-bit and all of your devices support UEFI, you may also disable CSM for faster boot speed.

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

3.7   Security Menu

The Security menu allows users to change the security settings for the system.

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

                                                    │ Set Administrator Password
   Password Description                             │
                                                    │
   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                    │ →←: Select Screen
   Maximum length              20                   │ ↑↓: Select Item
                                                    │ Enter: Select
   Administrator Password                           │ +/-: Change Opt.
   User Password                                    │ F1: General Help
                                                    │ F3: Optimized Defaults
                                                    │ F10: Save & Exit
                                                    │ F11: Print Screen
                                                    │ F12: BIOS Flash
                                                    │ ESC: Exit
                                                    │

                  Version 2.22.1286 Copyright (C) 2023 AMI
```

Administrator Password
Set administrator password.

User Password
Set user password.
.

3.8 Save & Exit Menu

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

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

    Save Options                              Exit system setup without
    Discard Changes and Exit                  saving any changes.

    Save Changes and Reset

    Default Options
    Restore Defaults

    Boot Override
    Windows Boot Manager (TS256GMTE452T)
    UEFI:  USB, Partition 1 ( USB)

                                              _____

                                              ➔←: Select Screen
                                              ↑↓: Select Item
                                              Enter: Select
                                              +/-: Change Opt.
                                              F1: General Help
                                              F9: Optimized Defaults
                                              F10: Save & Exit
                                              F11: Print Screen
                                              F12: BIOS Flash
                                              ESC: Exit

                   Version 2.22.1282 Copyright (C) 2022 AMI
```

Discard Changes and Exit
Exit system setup without saving any changes.

Save Changes and Reset
Reset the system after saving the changes.

Restore Defaults
Restore or load default values for all the setup options.

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

Section 4
Drivers Installation

4.1 Operating System

GOT317B-ADL-TRD is compatible with operating systems Windows 11 and Windows 11 IoT Enterprise. To facilitate the installation of system drivers, please carefully read the instructions in this section before any of such installation.

4.1.1 Driver download
Please download the GOT317B-ADL-TRD driver from Axiomtek's official website

4.2 Touch Screen

The GOT317B-ADL-TRD adopts 5-wire Analog Resistive type screen of which specifications are listed below. Users should install the touch driver for calibration to allow the user to operate the touch panel using single-ginger touch functions on the Windows 11 and Windows11 IoT Enterprise environments.

Table 4-1 Touch screen specifications

|	
Touch Screen	5-wire Analog Resistive type
Touch Screen Controller	PenMount 6500 USB Touch Screen Controller IC
Communications	USB interface
Resolution	1024x1024

APPENDIX A
TPM BitLocker SETTINGS

1. Setup BitLocker Drive Encryption main storage. Press <Win + R> and type "Control Panel", then select BitLocker Drive Encryption.
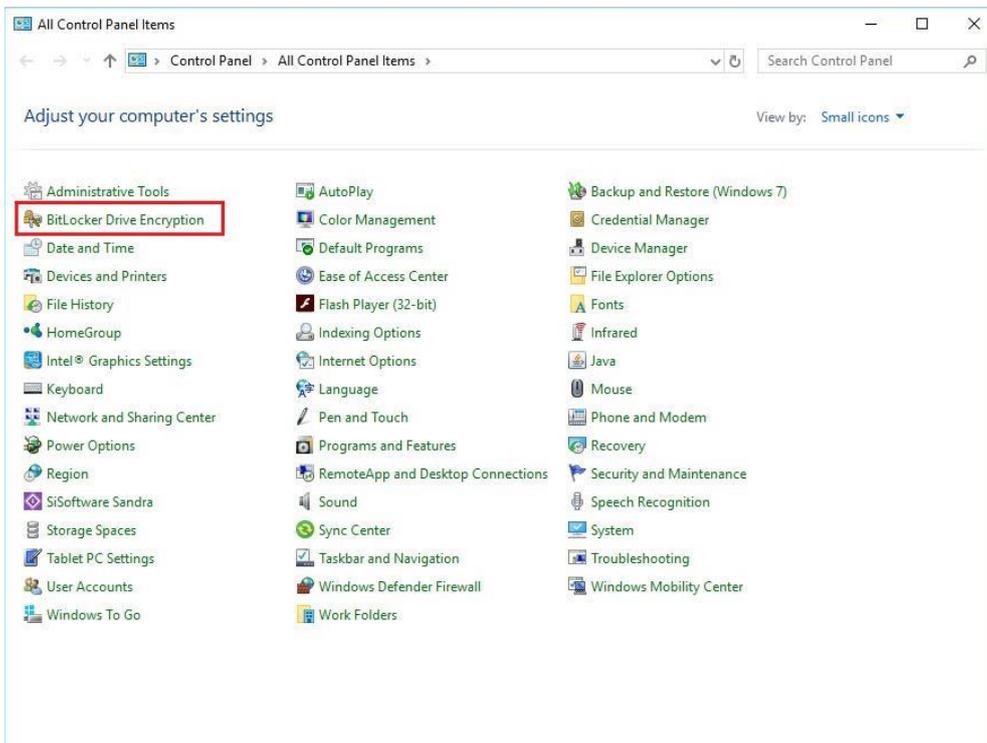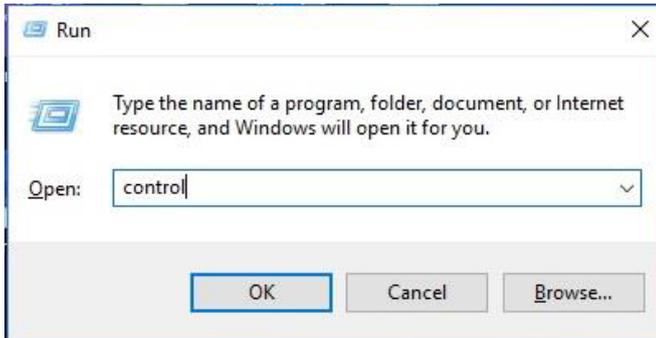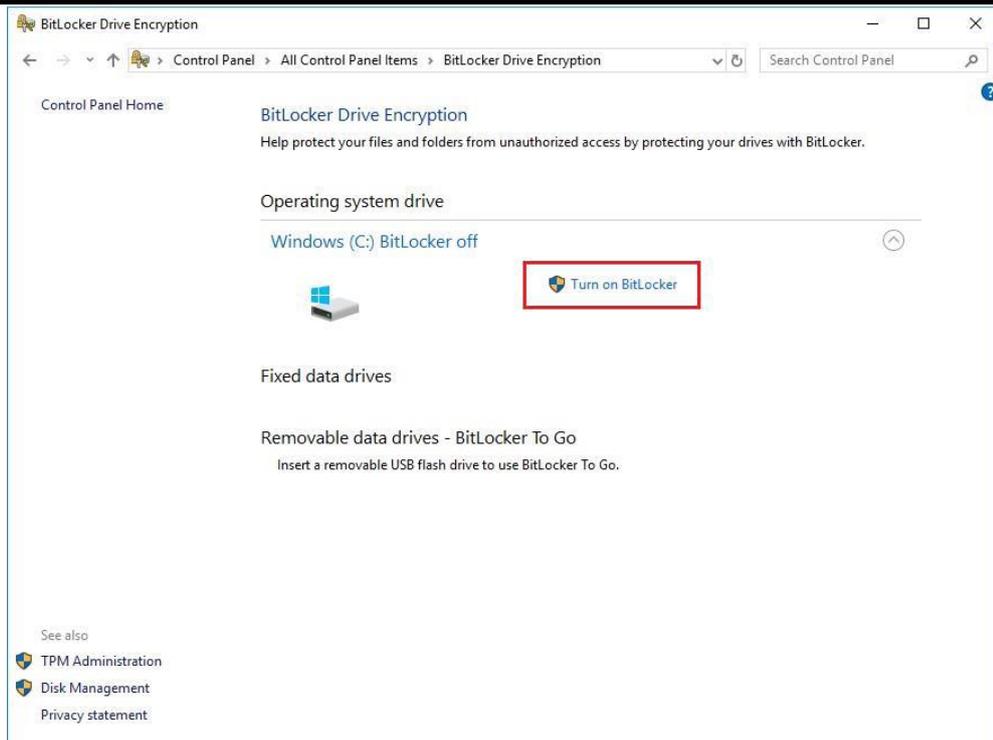
2. Insert an external storage device, for example USB Storage. Back up BitLocker recovery key in a new file and save it to the USB Storage.
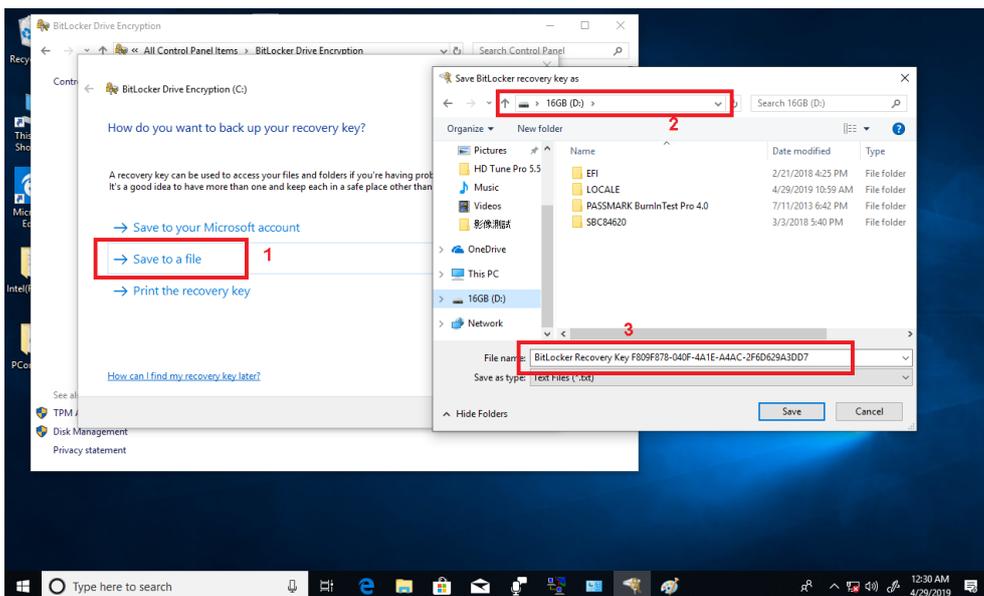
3. Please follow the steps below to encrypt your storage device:
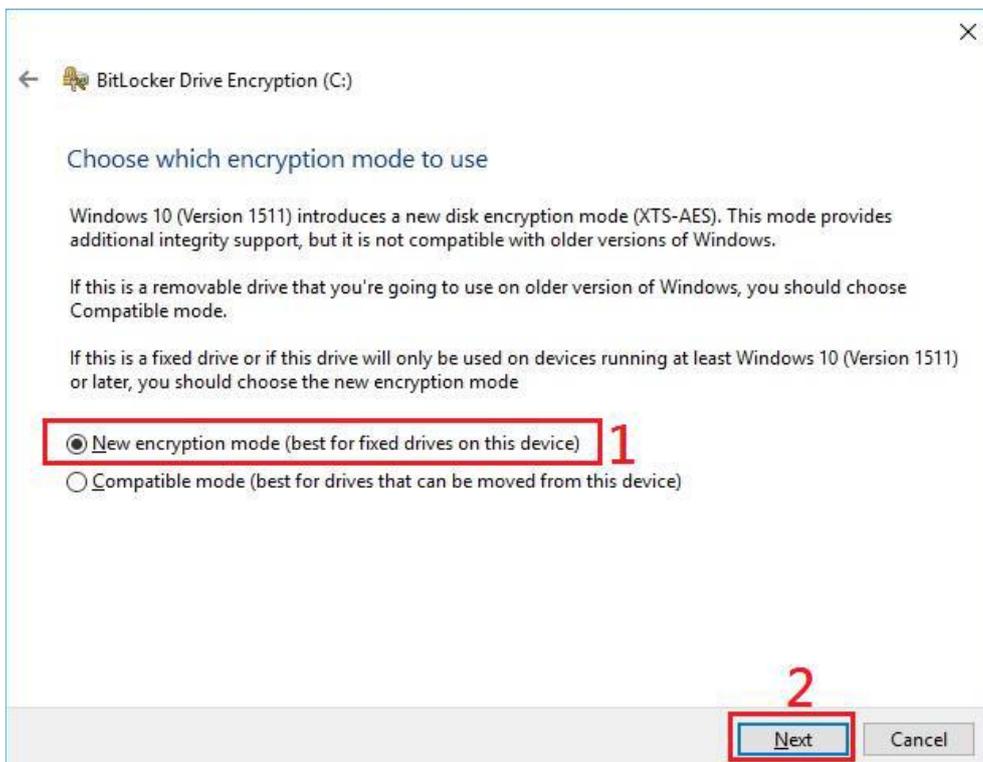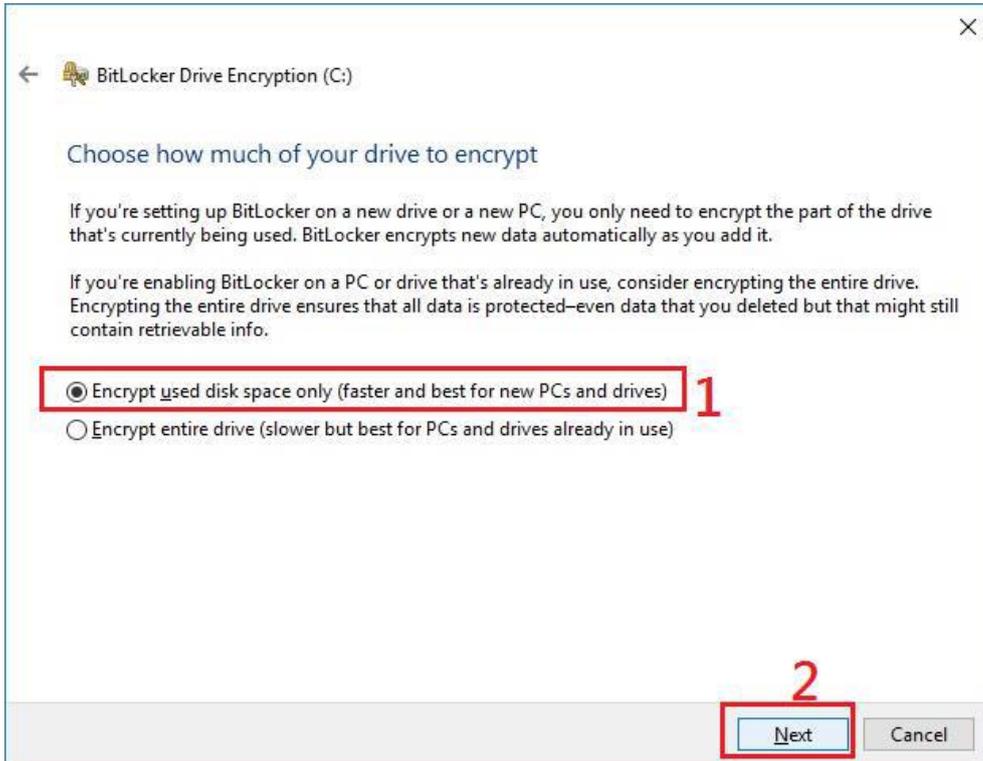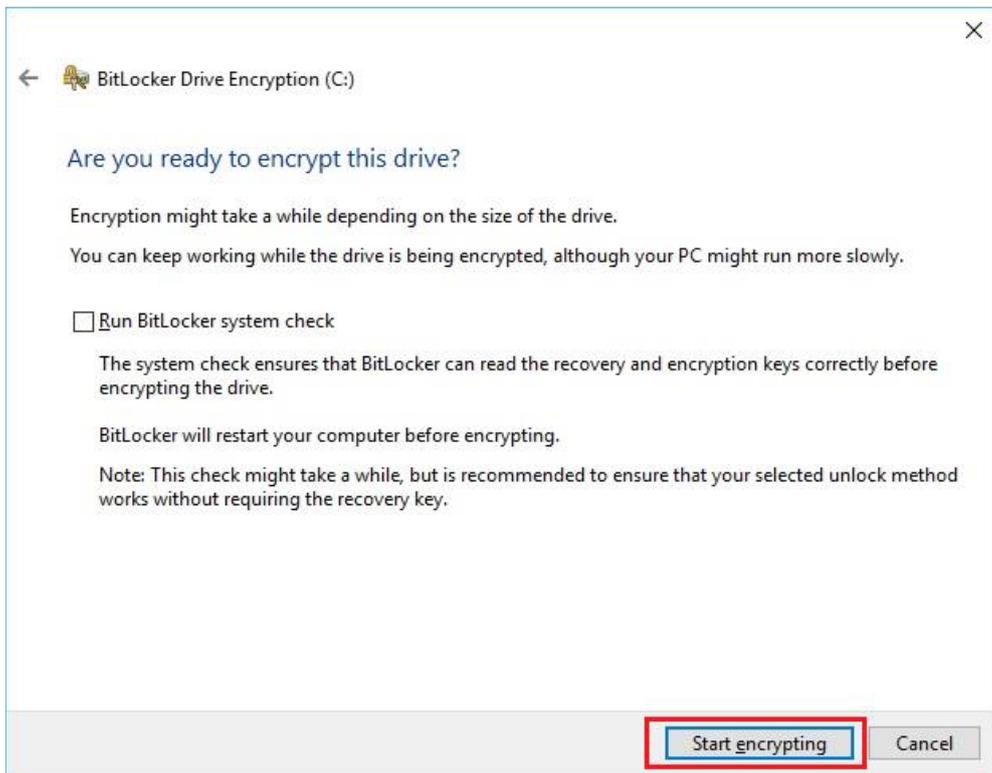
Now, the system prompts that the operating system drive encryption is in progress, and the encryption progress is checked.
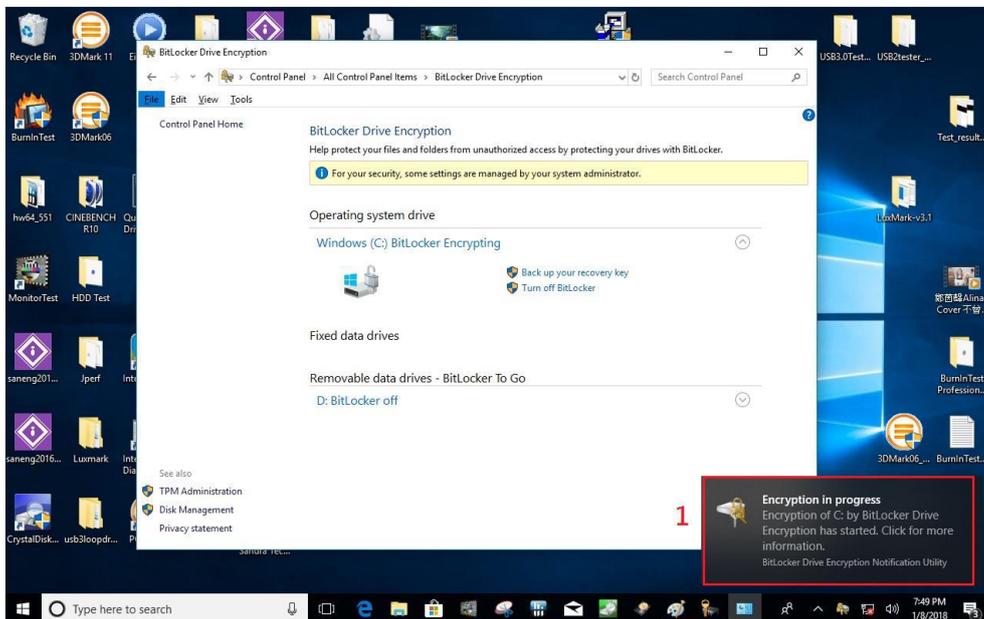
Select and click the icon in the lower right corner to complete the encryption.
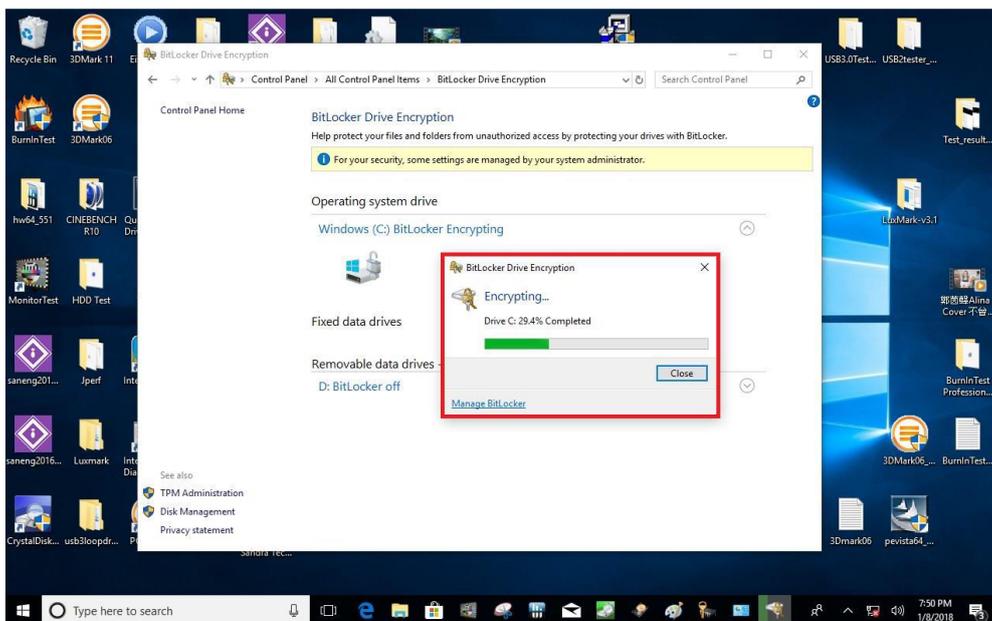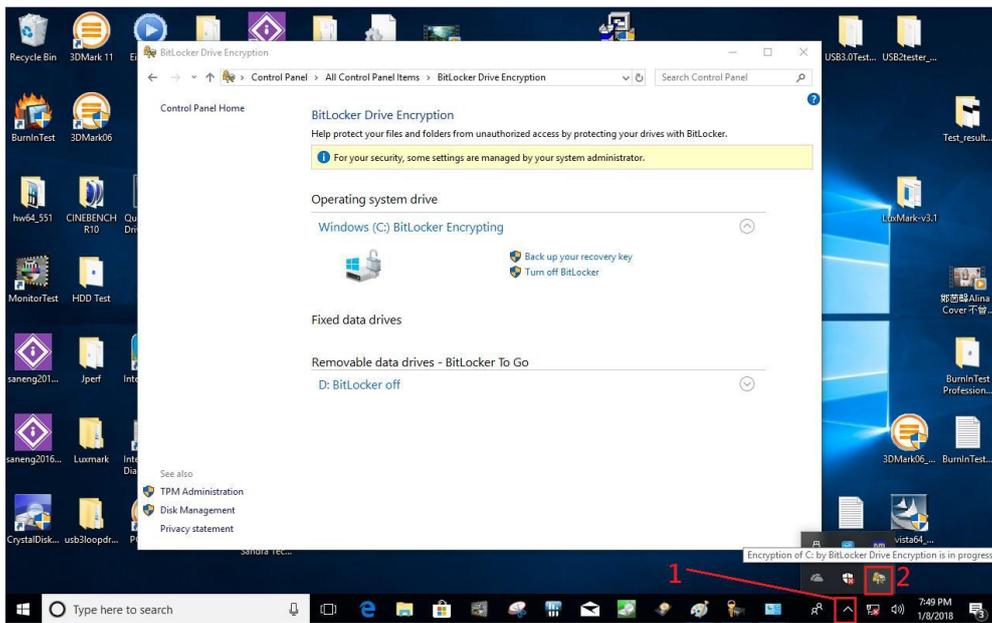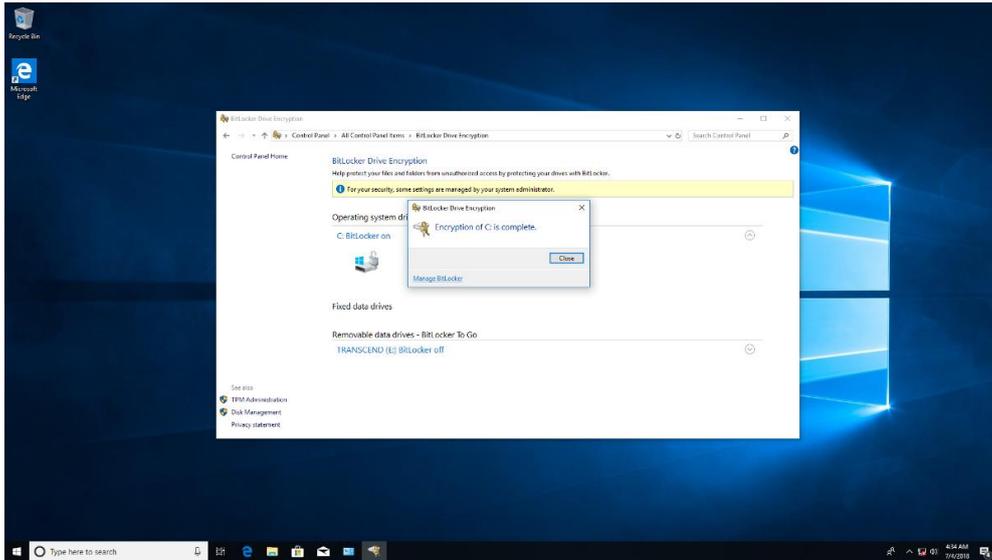
4. Confirm the completion of encryption.
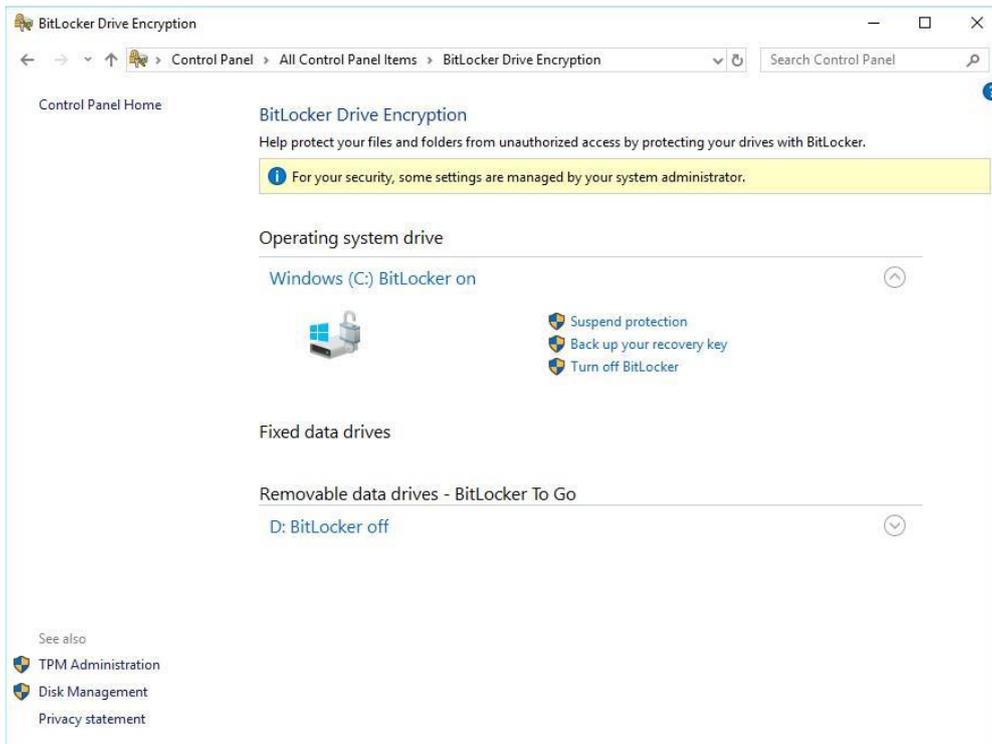
5. Disable TPM function in BIOS Setup Utility.

```
            Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc.
      Advanced

 TPM20 Device Found                                          Enables or Disables BIOS
 Firmware Version:             402.1                         support for security device.
 Vendor:                       INTC                          O.S. will not show Security
                                                             Device. TCG EFI protocol and
 Security Device Support       [Disable]                     INT1A interface will not be
                                                             available.



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



            Version 2.20.1271. Copyright (C) 2019 American Megatrends, Inc.
```

6. When the system is powered on and you see the following screen, it means the TPM module function is working fine. Note that BitLocker cannot be executed if your system does not have TPM function.

```
 BitLocker recovery

 Enter the recovery key for this drive

 |_____

 For more information on how to retrieve this key, go to
 http://windows.microsoft.com/recoverykeyfaq from another PC or mobile device.

 Use the number keys or function keys F1-F10(use F10 for 0).


 Recovery key ID: 995386D1-889B-4ADA-BA42-DCD3929AF074






 Press Enter to continue
 Press Esc for more recovery options
```

NOTE: **System with no TPM function support is as below:**

1. **TPM information is not found in Device Manager.**

2. **When trying to turn on Bitlocker, the following error message shows up.**

TPM Settings