IVS-44U0

Fanless In-Vehicle Computer

User Manual

Acrosser Technology Co., Ltd.
www.acrosser.com

Disclaimer

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The product names appear in this manual are for identification purpose only. The trademarks and product names or brand names appear in this manual are the property of their respective owners.

Purpose

This document is intended to provide the information about the features and use of the product.

Audience

The intended audiences are technical personnel, not for general audiences.

WARNING

Danger of explosion if batteries are incorrectly replaced. Always replace the battery with the same specifications. Dispose of used batteries according to the manufacturer's instructions.

Before running the system, make sure the power cord is firmly plugged into the socket.

CAUTION

 IEC 60417-6042 (2010-11)  IEC 60417-6172 (2012-09)

All power cords must be disconnected during product repair.

Ver: 100
Date: May. 19, 2026

To read this User Manual on your smart phone, you will have to install an APP that can read PDF file format first. Please find the APP you prefer from the APP Market.

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1. System Introduction

The Acrosser IVS-44U0 is a rugged, fanless in-vehicle computer powered by Intel® Meteor Lake Ultra 7/5 processors for efficient edge computing. It supports 9–55 VDC ignition power, rich I/O including 2.5GbE with optional PoE, CAN bus, COM, USB, and HDMI, along with flexible expansion and wireless connectivity. Designed for reliable operation in harsh environments, it is ideal for smart transportation and mobile applications.

1.1. Specifications

(Specifications are subject to change without notice.)

General

Thermal Solution	• Fanless
CPU	• Intel® Core™ Ultra 7-155U, Ultra 5-125U
Memory	• 1 x DDR5 SO-DIMM up to 48GB
BIOS	• AMI

Network Interface

Ethernet (on-board)	• 2 x RJ45 Intel® I226IT 2.5GbE LAN

Storage

HDD Bay	• 2 x Front-access 2.5” SSD Bay
M.2 M Socket	• 1x M.2 M socket for 2280 NVMe

I/O

Front Panel	• 1x DC-in 9-55V • 2 x RJ45 Intel® I226IT 2.5GbE LAN • 2 x USB3.2 Gen2x1 (Type A) • 2 x USB3.2 (Type C) • 2 x HDMI • 1 x HDMI Input • 4 x RJ45 Intel® I226IT 2.5GbE PoE total 40W (Optional) • 1 x Status LED • 1 x Power

	• 4 x DI, 4 x DO Isolated terminal block • 2 x 2.5” SSD Bay • 1 x SW mode
Rear Panel	• 4 x RS232/RS422/485 DB9 • 2 x CAN Bus DB9 • 2 x USB3.2 Gen2x1 (Type A) • 2 x Nano SIM Card Holder • 6 x External Antenna holes
Internal I/O	• 1x M.2 E key Connector 2230 (with PCIe x1+USB2.0) • 2x M.2 B key Connector 3042/3052(with SIM socket) (with PCIe x1+USB 3.2/2.0) • 1x mPCIe (Half), USB 2.0

Other Features

Watchdog Timer	• Software programmable 0~255 Seconds, 0=disable timer.
Battery	• Lithium Battery, 3V 220mAH (CR2032), for RTC
Hardware Monitoring	• CPU Voltage • CPU Temperature • System Temperature
Security & Mgmt.	• On-board TPM 2.0

Power Requirement

Input Voltage	• 9-55 VDC (Ignition)
Power Consumption	• 60 W (typical) without PoE
Power Connector	• 5 pin terminal block

Software

OS Support	• Ubuntu 22.04 LTS • Windows 10,11(64-bit)

Mechanical & Environment

Dimension	• 250(L) x 165(W) x 90(H)mm
Operating Temperature	• -20 ~ 60°C (-4 ~ 140°F)
Storage Temperature	• -40 ~ 80°C (-40 ~ 176°F)
Relative Humidity	• 5 to 95% @ non-condensing

EMC & Safety

Certification	• CE, FCC Class A, RoHS 2
Drop Test	• ISTA-2A 2006

1.2. Package Contents

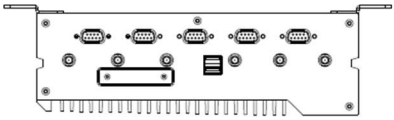
Check if the following items are included in the package.

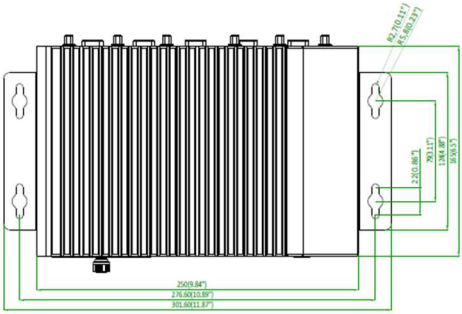
	Item	Q'ty	Remark
☐	IVS-44U0 System	1	
☐	5 Pin Terminal block	1	
☐	10 Pin Terminal block	1	
☐	Screw Pack	1	
☐	Bracket	2	

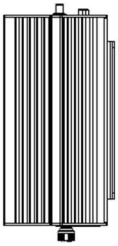
1.3. System Dissection

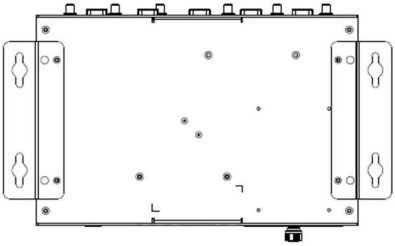
1.3.1. Dimensions

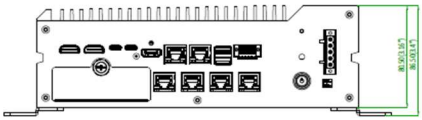
(Unit: mm)



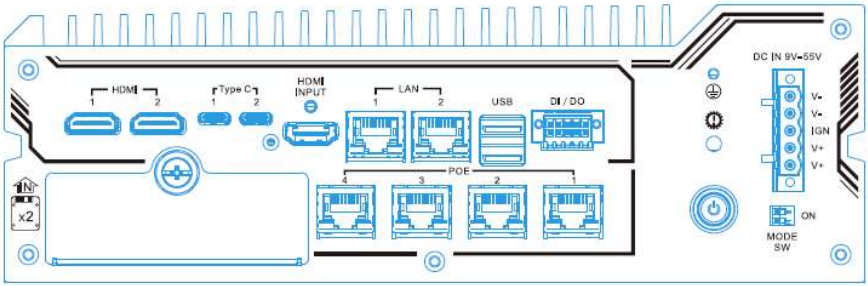








1.3.2. Front I/O Panel



- **Power**

  9-55V DC power input connector(Pitch:5.08mm)

	Pin	Signal	Remark
DC IN 9V-55V V- V- IGN V+ V+	1,2	V- (Ground)	External connector DECA MC101-50805-1 9V,55V : Po:190W max 11V~50V : Po:240W max
	3	Ignition ON (I , 9-55V)	
	4,5	V+ (DC 9-55V)	

- **SW Mode**

  Power PIC mode switch

	PIN		Mode	Remark
1 2 ON	1	2		
	ON	ON	ATX	Define:ON/ON ATX Mode
	ON	OFF	AT	
	OFF	ON	IGN SW	
	OFF	OFF	IGN SW	

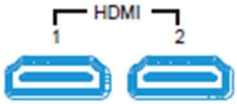
- **Status**

  System Status LED

	Position	Color	Define
	Up	Yellow	Power
	Bottom	Green	HDD

- **HDMI**

  Standard HDMI & Display Port1 connector



- **USB** (Type C)

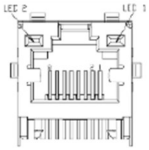
  Standard USB3.2 Gen2x1(10Gbps) Type C connector

- **HDMI**

  Standard HDMI connector for HDMI capture

- **LAN 1~2**

  Standard RJ45 2.5GbE connector



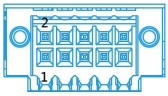
LED		100	1000	2500
Left	**Link**	Green	Green	Green
	Active	Blinking	Blinking	Blinking
Right	**Speed**	OFF	Yellow	Green

- **USB (Type A)**

  Standard USB3.2 Gen2x1(10Gbps) Type A connector

- **DI/DO**

  4In / 4Out GPIO connector

DI/DO	Pin	Signal	Pin	Signal
	**10**	Ext. Power 9-55V	**9**	GND
	8	DI 1	**7**	DI 3
	6	DI 0	**5**	DI 2
	4	DO 1	**3**	DO 3
	2	DO 0	**1**	DO 2

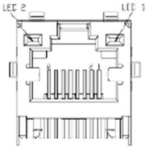
- **HDD**

  HDD bays reserved for installation of your 2.5” hard disks (H:7mm)

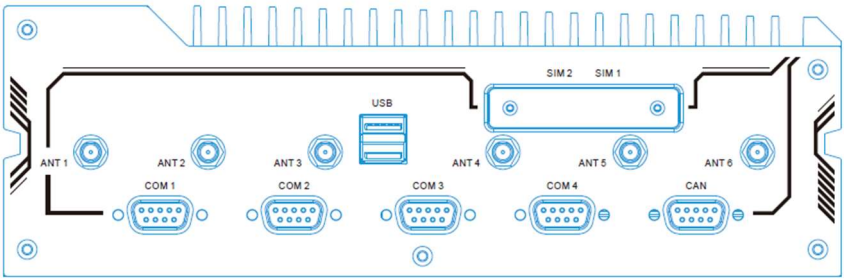
- **LAN PoE (Optional)**

  Standard RJ45 2.5GbE PoE(15.4W) connector

  4port upto 40W only

	LED 1		100	1000	2500
	**Left**	**Link**	Green	Green	Green
		Active	Blinking	Blinking	Blinking
	Right	**Speed**	OFF	Yellow	Green

1.3.3. Rear I/O Panel



- **ANT1 ~ ANT6**

  SMA Antenna Hole. Reserved for optional WLAN & WWAN (Wi-Fi & 4G LTE /5G)

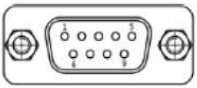
ANT1	ANT2	ANT3	ANT4	ANT5	ANT6
Wi-Fi	Wi-Fi	4G LTE/5G	4G LTE/5G	4G LTE/5G/GPS	5G

- **USB**

  Standard USB3.2 Gen2x1(10Gbps) Type A connector

- **CAN**

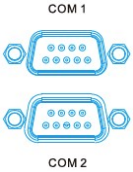
  2 Port CANBus DB9 connector



DB9 Pin	CANBus1	CANBus2	DB9 Pin	CANBus1	CANBus2
1			6		
2	CAN_L1		7	CAN_H1	
3			8		CAN_H2
4		CAN_L2	9		
5					

- **COM1~4**

  Standard RS-232/422/485 multi-protocol DB (male) connector



DB9 PIN	RS-232	RS-422	RS-485
1	DCD	TX-(B)	D-(B)
2	RxD	TX+(A)	D+(A)
3	TXD	RX+(A)	
4	DTR	RX-(B)	
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		
9	RI		

- **SIM**

  SIM1 Nano SIM Card Socket for SIM1

  SIM2 Nano SIM Card Socket for SIM2

2. Components Assembly

Please follow the instruction to install the inner modules.

2.1. SIM Card Installation

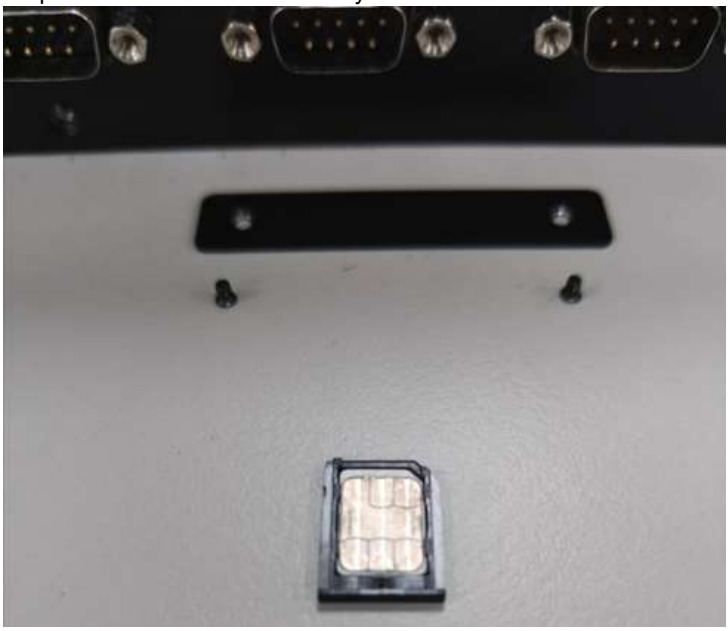
Step 1: Remove the SIM card cover screws.

Step 2: Detach the SIM card cover.

Step 3: Pull out the SIM card tray.

Step 4: Place the SIM card into the tray.

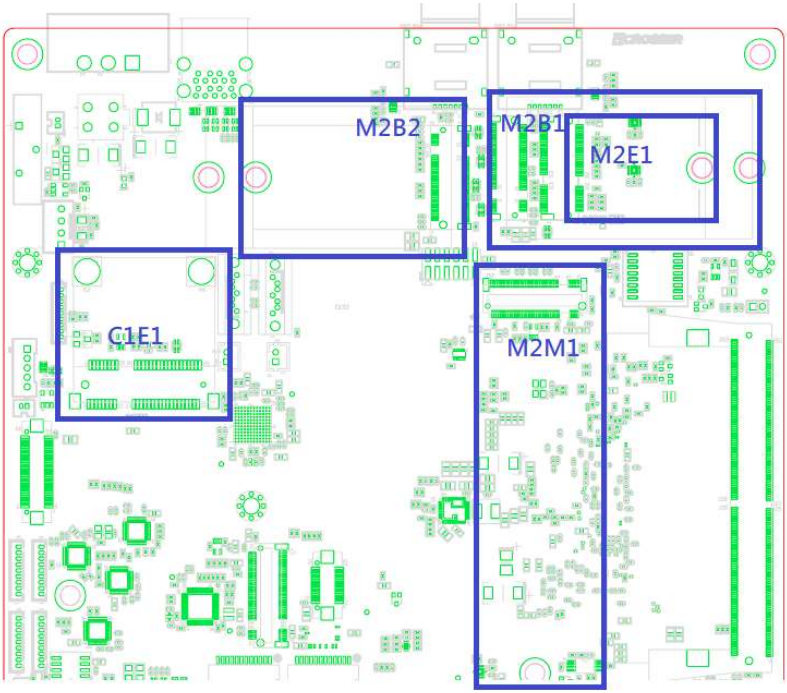
Step 5: Insert the SIM card tray back into the slot.



Step 6: Reattach the SIM card cover.

Step 7: Secure the SIM card cover with screws.

2.2. PCB Parts Description



M2E1

M.2E1 connector for Wi-Fi 2T2R module

The Wi-Fi antenna is SMA female type. Please connect to the socket marked with ANT1 / ANT2 on the panel and have it fastened.

M2B1(SIM1)

M.2B1 connector with USB 2.0+3.0 signal & PCIe x1, for 4G LTE / 5G module or SSD

The 4G LTE / 5G antenna is SMA male type. Please connect to the socket marked with ANT3 / ANT4 / ANT 5 / ANT 6 on the panel and have it fastened.

M2B2(SIM2)

M.2B2 connector with USB 2.0+3.0 signal & PCIe x1, for 4G LTE / 5G module or SSD

The 4G LTE / 5G antenna is SMA male type. Please connect to the socket marked with ANT3 / ANT4 / ANT 5 / ANT 6 on the panel and have it fastened.

C1E1

Mini-PCIE half-size connector with USB 2.0 only

The GSM antenna is SMA male type. Please connect to the socket marked with ANT5 on the panel and have it fastened.

M2M1

M.2MIconnector with PCIe x4 2280 NVME SSD

2.3. Hard Disk Installation

Included Accessories for HDD Assembly

●HDD bracket / tray

●Mounting screws

Step 1: Install the first SSD with the correct orientation.

Step 2: Secure the first SSD using the designated screw positions.

Step 3: Install the second SSD with the correct orientation.

Step 4: Secure the second SSD using the designated screw positions.

Step 5: Insert the HDD tray into the system.

Step 6: Fasten the HDD tray securely to the chassis.

2.4. Module Installation

Step 1: Slopingly insert the module into the connector. (Do the same way for M.2 and mPCIE.)

Step 2: Use screws to lock the module to the nut position on the board.

Notes:

- As there are fifferent module interfaces, like M.2 B key, M.2 E key, or mPCIE, please comply with the one the system specification specified.
- As there are fifferent module specifications, like Half size, Full size, 3042, or 3052, please comply with the one the system specification specified.

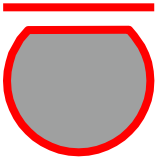
2.5. RF Cable Installation

Step 1: Connect the RF plug to the module connector.

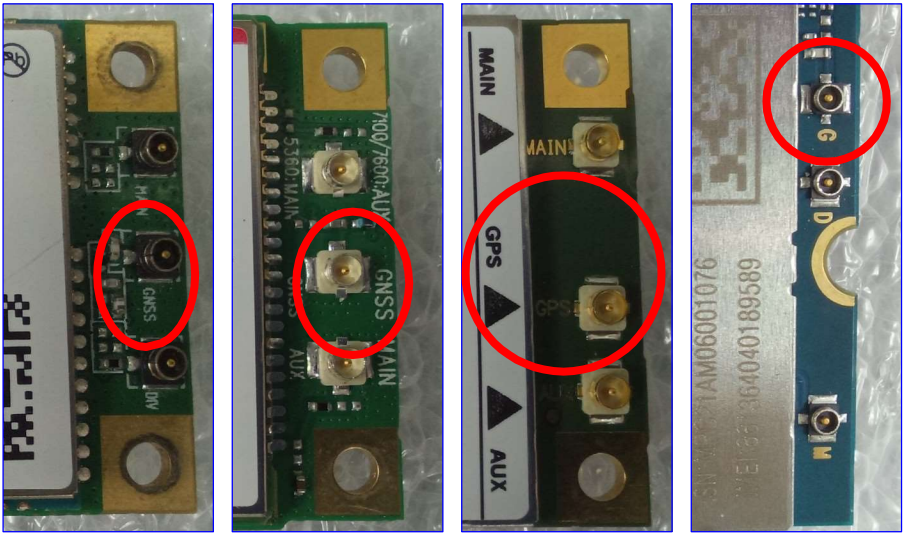
Notes:

- Wi-Fi: Support 2 RF cables at least.
- 4G LTE: Support 1 RF cable at least, up to 3 RF cables.
- 5G: Support 2 RF cables at least, up to 4 RF cables.

Step 2: The foolproof position and shape of the joint should correspond with the opening of the system panel.



Step 3: Assemble the SMA end of the RF Cable and lock it with gasket and nut.



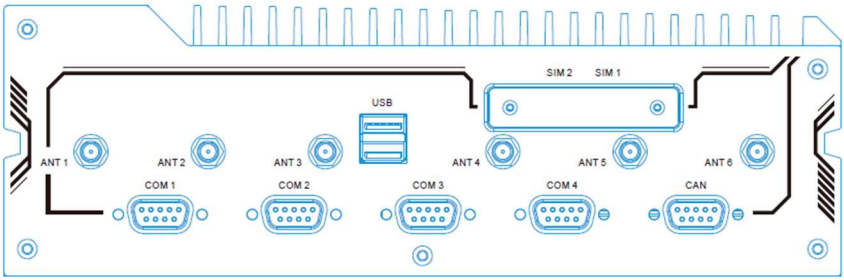
Notes:

- For the connector marked as GNSS or GPS, please install it on the system panel where the GPS antenna is located.
- The connector marked as MAIN or AUX is a 4G LTE / 5G connector, please install

  It on the system panel marked 4G or 5G antenna. Use the MAIN connector first.

2.6. Antenna Installation

Connect your antennas according to your system configuration.



ANT1	ANT2	ANT3	ANT4	ANT5	ANT6
Wi-Fi	Wi-Fi	4G LTE / 5G	4G LTE / 5G	4G LTE / 5G /GPS	5G

Wi-Fi:

Connect female type antenna to the male type socket **ANT 1** and **ANT 2**

GPS:

Connect male type antenna tail cable to the female type socket **ANT 5**.

4G LTE / 5G:

Connect male type antenna to the female type socket marked with **ANT3** and **ANT 4** or **ANT6**.

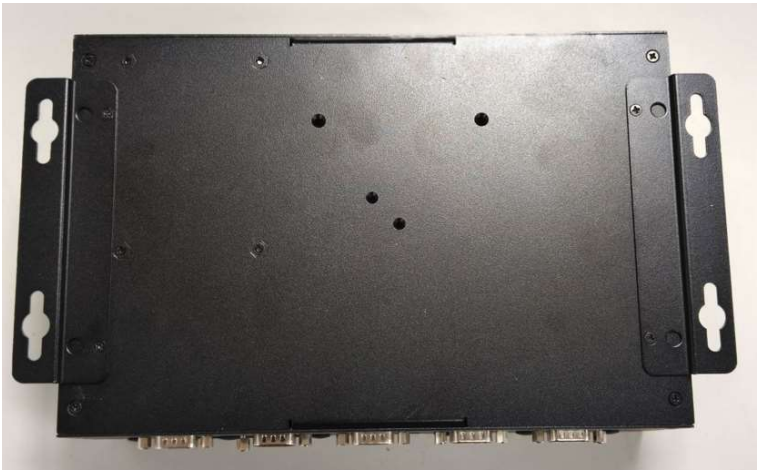
2.7. Bracket Installation

Step 1: Prepare the bracket and accessorie

Step 2: Align the bracket with the mounting holes.

Step 3: Secure the bracket using screws..

Step 4: Verify that the bracket is firmly installed.



3. BIOS Settings

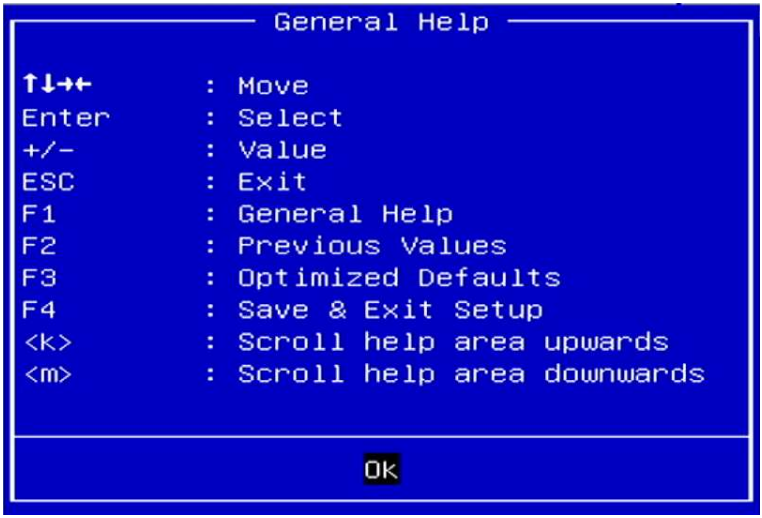
This chapter introduces the BIOS menus, which allow users to modify BIOS settings and control various system functions. The following topics are covered:

- **Main Setup**
- **Advanced Setup**
- **Chipset Setup**
- **Security Setup**
- **Boot Setup**
- **Save & Exit Setup**

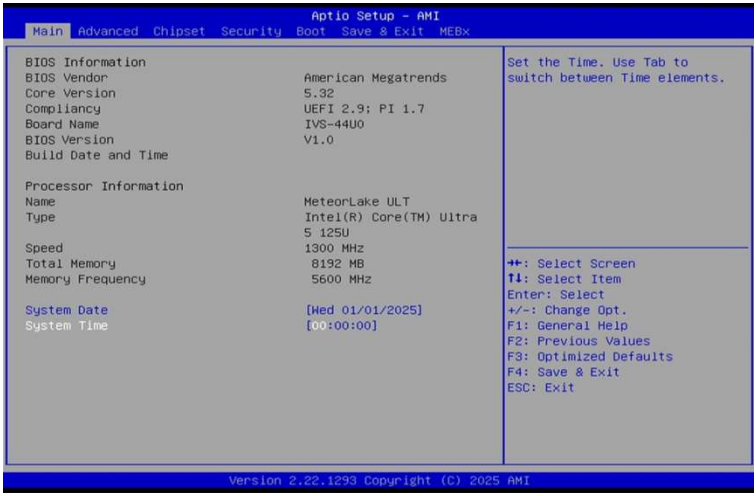
Press the <**Del**> key on your keyboard to enter the BISO setup. The main BIOS setup menu will then be displayed. You can access the other BIOS function settings.

Press the <**F1**> key to display general help.

Use the <**Up**>/<**Down**>/<**Left**>/<**Right**> keys to highlight the item, then use the **+** / **-** keys to select the value in each item, or press the <**Enter**> key to select the item and configure the function.

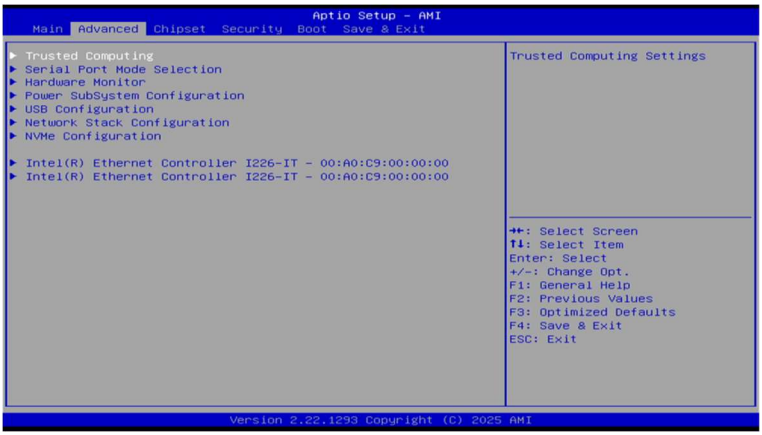


3.1. Main Setup



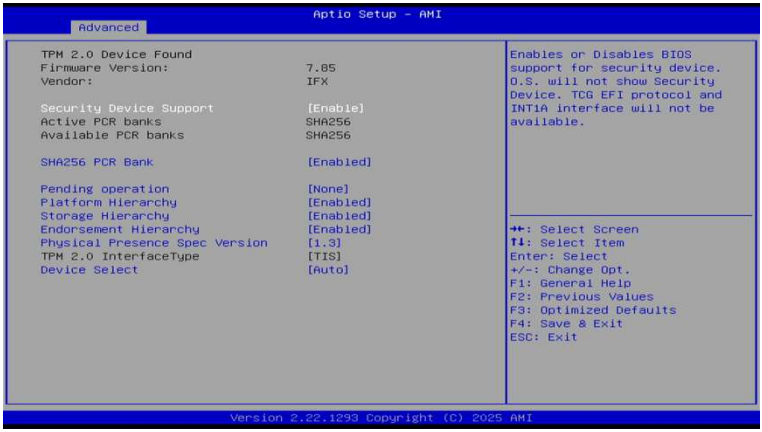
- **BIOS Vender**
  Displays the BIOS vendor, where we suppliers license from.
- **Core Version**
  Displays the BIOS vendor's kernel core version.
- **Compliancy**
  Displays this BIOS supporting industry standards compliance.
- **Board Name**
  Displays the Board Model name.
- **BIOS Version**
  Displays the BIOS version.
- **Build Date and Time**
  Displays this BIOS build date and time.
- **Processor Information**
  Display the processor name and type.
- **Total Memory**
  Displays the total memory size of the system.
- **System Date**
  Set the system date. Use Tab to switch between Date elements. Use **+ / -** or numbers to change the value.
- **System Time**
  Set the system time. Use Tab to switch between Date elements. Use **+ / -** or numbers to change the value.

3.2. Advanced Setup



- **Trusted Computing**
  Select the Trusted Computing item to enter the submenu of that item.
- **Serial Port Mode Select**
  Select the Serial Port Mode Select item to enter the submenu of that item.
- **Hardware Monitor**
  Select the Hardware Monitor item to enter the submenu of that item.
- **Power SubSystem Configuration**
  Select the Power SubSystem Configuration item to enter the submenu of that item.
  NOTE : This feature is only available with the optional **Power Board ADB-44U0PW**. It will not display unless the board is installed.
- **USB Configuration**
  Select the USB Configuration item to enter the submenu of that item.
- **Network Stack Configuration**
  Select the Network Stack Configuration item to enter the submenu of that item.
- **NVMe Configuration**
  Select the NVMe Configuration item to enter the submenu of that item.

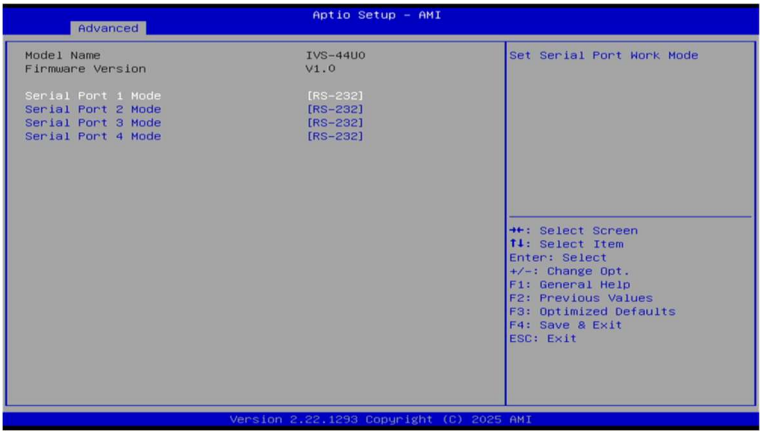
3.2.1. Trusted Computing



- **Security Device Support**
  Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.
  Option : Enable、Disable
- **SHA256 PCR Bank**
  Enable or Disable SH256 PCR Bank
  Option : Enabled、Disabled
- **Pending operation**
  Schedule an Operation for the Security Device.
  Option : None、TPM Clear

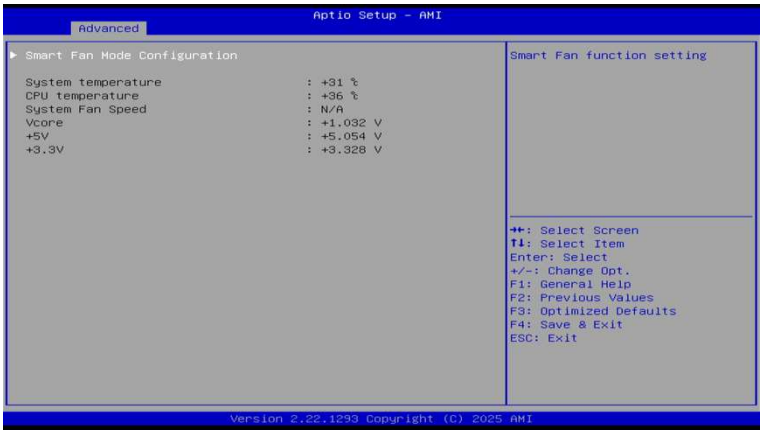
  NOTE :
  Your Computer will reboot during restart in order to change state of Security Device.
- **Platform Hierarchy**
  Enable or Disable Platform Hierarchy.
  Option : Enabled、Disabled
- **Storage Hierarchy**
  Enable or Disable Storage Hierarchy.
  Option : Enabled、Disabled
- **Endorsement Hierarchy**
  Enable or Disable Endorsement Hierarchy.
  Option : Enabled、Disabled
- **Physical Presence Spec Version**
  Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3
  Option : 1.2、1.3
- **Device Select**
  TPM 1.2 will restrict support to TPM 1.2 device, TPM 2.0 will restrict support to TPM 2.0 devices, Auto will support both with the default set to TPM 2.0 devices if not found, TPM 1.2 device will be enumerated.
  Option : TPM 1.2、TPM 2.0、Auto

3.2.2. Serial Port Mode Select

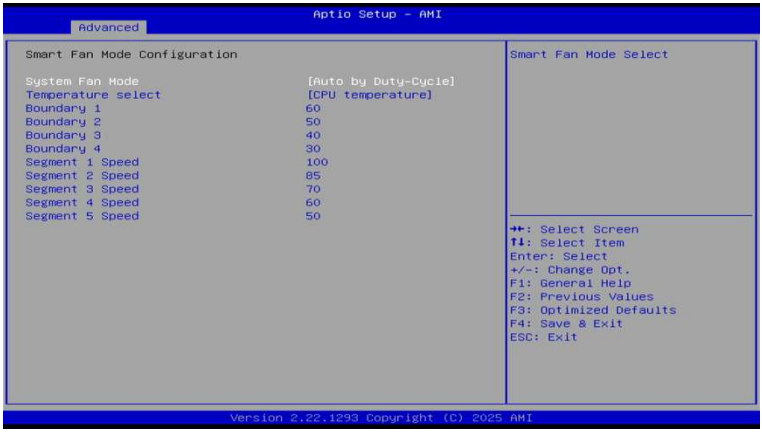


- **Model Name**
  Display controller model name.
- **Firmware Version**
  Display controller firmware version.
- **Serial Port 1 Mode**
- **Serial Port 2 Mode**
- **Serial Port 3 Mode**
- **Serial Port 4 Mode**
  Select serial port transmission mode.
  Option : RS-232、RS-422 Full Duplex、RS-422 Terminator、RS-485 Full Duplex、RS-485 Terminator

3.2.3. Hardware Monitor



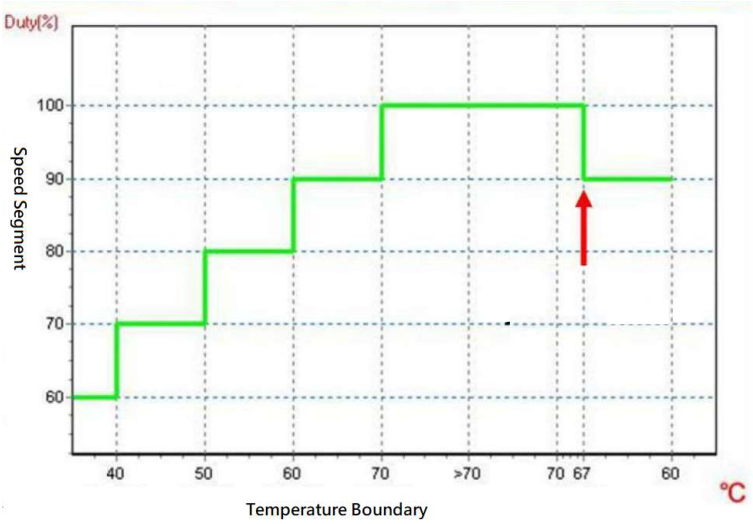
- **Smart Fan Mode Configuration**
  Select the Smart Fan Mode Configuration item to enter the submenu of that item.



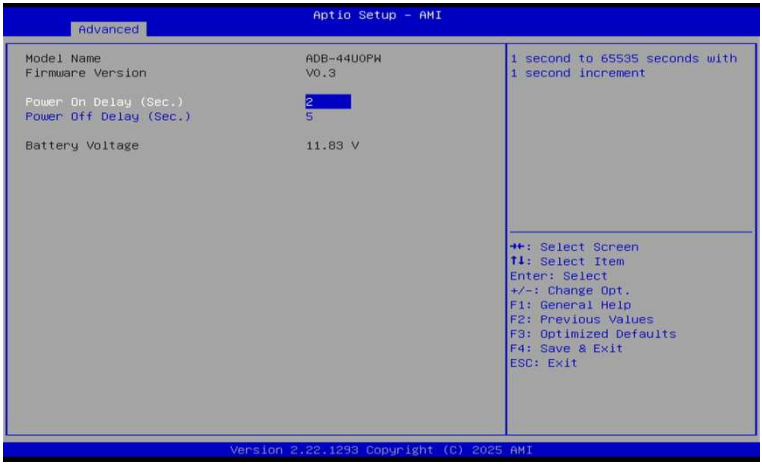
- **System Fan Mode**
  Control the fan speed with these options
  Option : Auto by Duty-Cycle、Manual by Duty-Cycle
- **Temperature select**
  Select temperature source
  Option : CPU Temperature、System Temperature.
- **Boundary 1**
- **Boundary 2**
- **Boundary 3**

- **Boundary 4**
  Input a temperature between 1 ~ 127°C.
- **Segment 1 Speed**
- **Segment 2 Speed**
- **Segment 3 Speed**
- **Segment 4 Speed**
- **Segment 5 Speed**
  Input a fan speed between 0 ~ 255.

  NOTE :
  [Manual Mode] : You can set fixed fan speed.
  [Auto Control Mode] : the fan speed is automatically adjusted based on temperature boundaries. By configuring different temperature settings, the system can dynamically control the fan speed to optimize both cooling performance and noise levels.



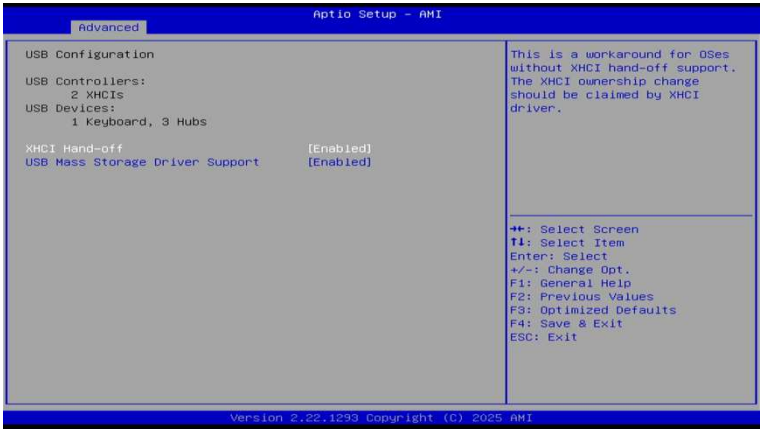
3.2.4. Power SubSystem Configuration



- **Model Name**
  Display controller model name.
- **Firmware Version**
  Display controller firmware version
- **Battery Voltage**
  Display the current input voltage value of the system.
- **Power On Delay (Sec.)** (note1)
  Allows the system to automatically power on after a specified delay. The delay time can be configured from 1 to 65,536 seconds.
- **Power Off Delay (Sec.)** (note1)
  Allows the system to automatically power off after a specified delay. The delay time can be configured from 1 to 65,536 seconds.

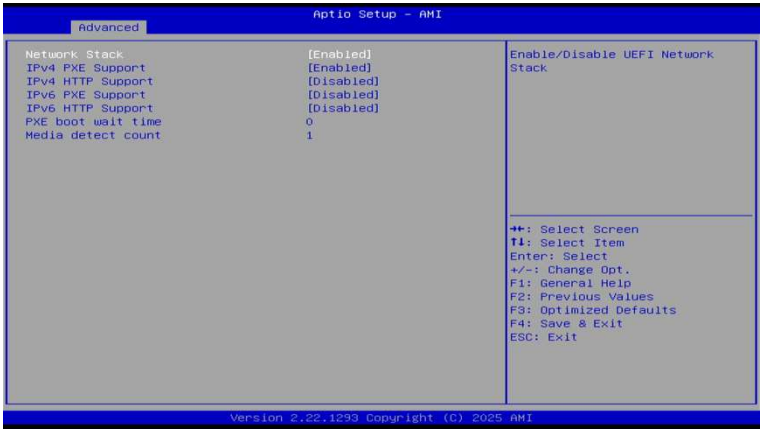
  Note1 : Only for IGN Mode selected

3.2.5. USB Configuration



- **XHCI Hand-off**
  This is a work-around solution for operating systems that do not support XHCI (Extensible Host Controller Interface) hand-off. The XHCI ownership change should be claimed by the XHCI driver.
  Option : Enabled、Disabled
- **USB Mass Storage Driver Support**
  Select Enabled for USB Mass Storage Driver support.
  Option : Enabled、Disabled

3.2.6. Network Stack Configuration

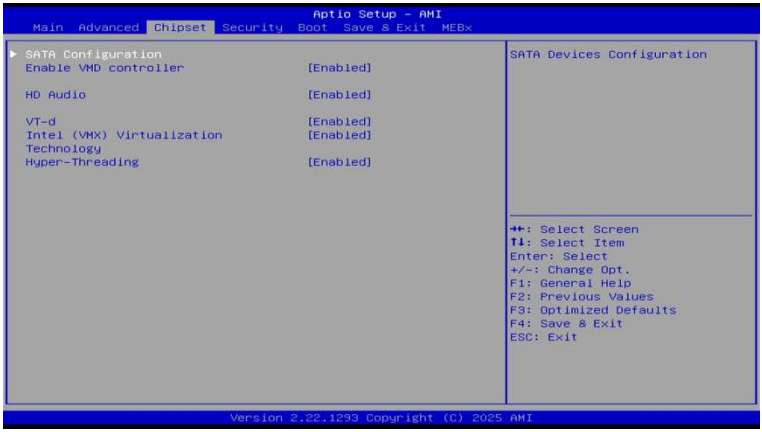


- **Network Stack**
  Enables or disables UEFI Network Stack
  Option : Enabled、Disabled
- **Ipv4 PXE Support**
  Enable or disable the Ipv4 PXE support.
  Option : Enabled、Disabled
- **Ipv4 HTTP Support**
  Enable or disable the Ipv4 HTTP support.
  Option : Enabled、Disabled
- **Ipv6 PXE Support**
  Enable or disable the Ipv6 PXE support.
  Option : Enabled、Disabled
- **Ipv6 HTTP Support**
  Enable or disable the Ipv6 HTTP support.
  Option : Enabled、Disabled
- **PXE boot wait time**
  Click ESC key to cancel the PXE boot wait time.
- **Media detect count**
  Set up the media detecting wait time by seconds.

3.2.7. Intel(R) Rapid Storage Technology

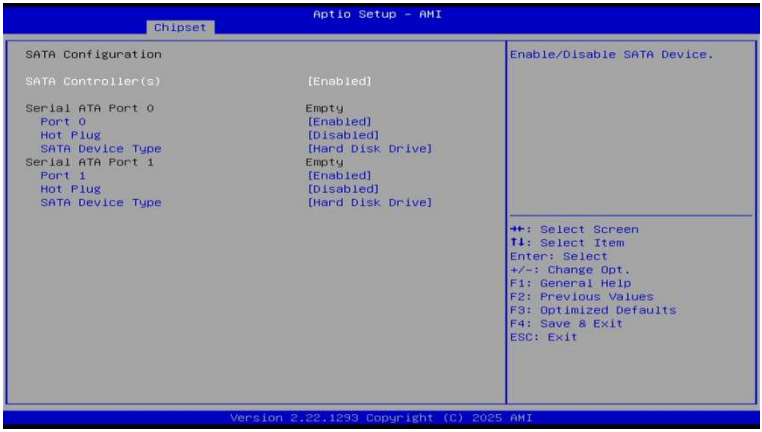
- **VMD (Volume Management Device) for RAID**
  1. Chipset > Enabled VMD Controller
  2. Advanced > Intel(R) Rapid Storage Technology
  3. Select Create RAID Volume on BIOS menu
  4. Select disks to create RAID Volume then Save Changes and Reset

3.3. Chipset



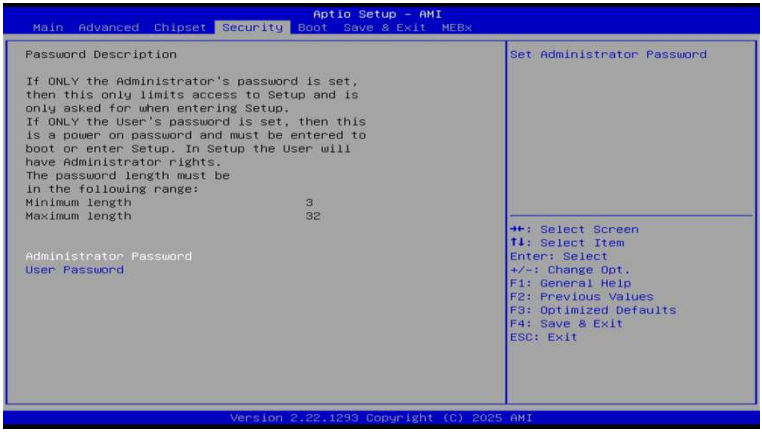
- **SATA Configuration**
  Select the SATA Configuration item to enter the submenu of that item.
- **Enable VMD controller**
  Enabled or disabled Intel VMD (Volume Management Device) controller for RAID setting.
  Option : Enabled、Disabled
- **HD Audio**
  Enables or disables the onboard High Definition Audio function..
  Option : Enabled、Disabled
- **VT-d**
  Enables or disables Intel Virtualization Technology for Directed I/O (VT-d).
  Option : Enabled、Disabled
- **Intel (VMX) Virtualization Technology**
  When enabled, a VMM can utilize the additional hardware capabilities provided by Intel Vanderpool Technology.
  Option : Enabled、Disabled

3.3.1. SATA Configuration



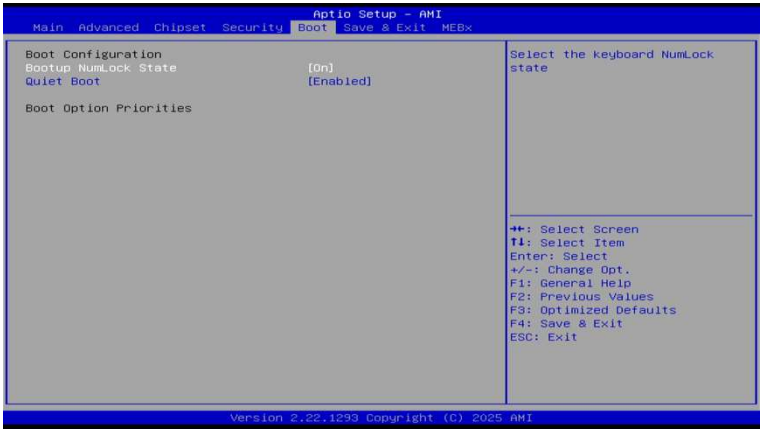
- **SATA Controller(s)**
  Enables or disables all SATA controller
  Option : Enabled、Disabled
- **Port(x)**
  Select SATA Port x function enabled or disabled.
  Option : Enabled、Disabled
- **Hot Plug**
  Select SATA Port x hot plug function enabled or disabled.
  Option : Enabled、Disabled
- **SATA Device Type**
  Select SATA Port x device type.
  Option : Hard Disk Drive、Solid State Drive

3.4. Security Setup



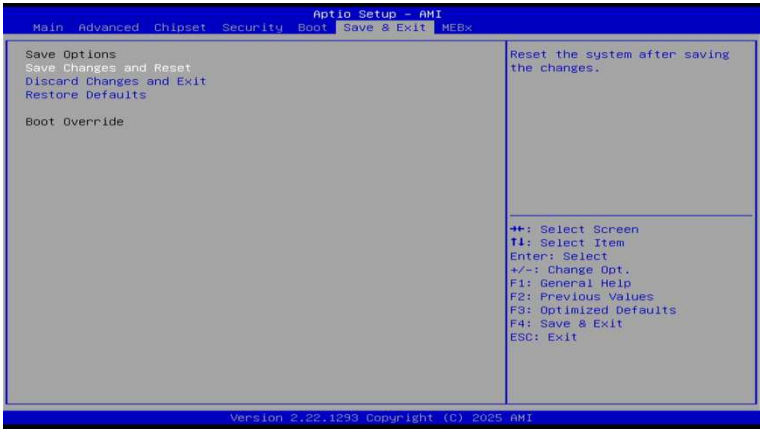
- **Administrator Password**
  Press Enter to create a new, or change an existing Administrator password.
- **User Password**
  Press Enter to create a new, or change an existing User password.

3.5. Boot Setup



- **Bootup NumLock State**
  Select the keyboard NumLock state
  Option : On、Off
- **Quiet Boot**
  Enables or disables Quiet Boot option
  Option : Disabled、Enabled
- **Boot Option Priorities**
  Specifies the boot sequence from the available devices.

3.6. Save & Exit Setup



- **Save Changes and Reset**
  Reset the system after saving the changes.
- **Discard Changes and Reset**
  Reset system setup without saving any changes.
- **Restore Defaults**
  Restore/Load Default values for all the setup options.

4. Software Installation and Programming Guide

4.1. Introduction

4.1.1. GPIO

The system provides a GPIO interface, allowing users to configure GPIO pins using GPIO APIs. When a pin is set as an input, its state can be read. When a pin is set as an output, users can set it to either high or low.

Pin number	GPIO name	Pin number	GPIO name
0	GPO0 (GPIO50)	4	GPI4 (GPIO54)
1	GPO1 (GPIO51)	5	GPI5 (GPIO55)
2	GPO2 (GPIO52)	6	GPI6 (GPIO56)
3	GPO3 (GPIO53)	7	GPI7 (GPIO57)

4.1.2. Watchdog

The system provides a Watchdog timer. When the timer expires, the system will reboot. Users can use the Watchdog APIs to configure and access the timer. The Watchdog timer can be set to a value between 1 and 255 seconds. Setting the timer to zero disables it.

4.2. File Descriptions

- **TestUtility.exe**

  GPIO、Reset Button、Watchdog and Lan Bypass functional test utility.

- **BoardDevLib.h**

  This file contains API declarations and macro definitions.

- **BoardDevLib.a**

  The static library for linux.

- **BoardDevLib.so**

  The dynamic library for linux.

- **Install_Driver**

  This file is a Linux shell script. Running this file will help you install the environment and modprobe the driver on Linux.

- **Readme**

  If this is your first time using this utility, please read the README file first.

4.3. API List and Descriptions

4.3.1. GPIO

Syntax	**int Get_GPI_Status (int pin)**
Description	Get the state of the GPI input pin. Input pin only has pin number 4 ~ 7
Parameters	**pin** : pin number, range is 0 ~ 7
Return Value	1: HIGH, 0: LOW.

Syntax	**int Set_GPO_Status (int pin, int sts)**
Description	Set the state of the GPO output pin Output pin only has pin number 0 ~ 3
Parameters	**pin** : pin number, range is 0 ~ 7 **sts** : GPO status, 1: HIGH, 0: LOW.
Return Value	0 : successful, -1: fail.

Syntax	**int Get_GPO_Status (int pin)**
Description	Get the state of the GPO output pin. Output pin only has pin number 0 ~ 3
Parameters	**pin** : pin number, range is 0 ~ 7
Return Value	1: HIGH, 0: LOW.

4.3.2. Watchdog

Syntax	**void WDT_Start (int time)**
Description	Set the time value of the watchdog timer register and start the countdown.
Parameters	**time** : watchdog time value, range is 1 ~ 255
Return Value	Returns the value of the time counter as an unsigned integer.

Syntax	**void WDT_Stop (void)**
Description	Stop the watchdog timer.
Parameters	None
Return Value	None

4.3.3. Notes

Syntax	**int Lib_Init (void)**
Description	This function must be called before using GPIO, the reset button, and the watchdog.
Parameters	None
Return Value	0: successful, -1: fail.

Syntax	**void Lib_Close (void)**
Description	Call this function if no other functions are used in the program.
Parameters	None
Return Value	None

5. FAQ

Q 1. Where is the serial number located on my system ?

- The serial number (S/N) is an alpha-numeric character located on the bottom or side chassis.

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- Acrosser Serial Number: _____

Describe System Configuration

- CPU Type: _____
- Memory Size: _____
- Storage Device (e.g. HDD, CF, or SSD): _____
- Additional Peripherals (e.g. Graphic Card): _____
- Operating System & Version (e.g. Windows 7 Embedded): _____
- Special API or Driver: _____
  (If yes, please provide it for debug.)
- Running Applications: _____
- Others: _____

Describe Your Problems or Questions:

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