Intel® 7th Gen. Core™

U-series® SoC



User Manual

FCC Statement



This device complies with part 15 FCC rules. Operation is subject to the following two conditions：

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class "a" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at him own expense.

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This User's Guide requires higher than basic understanding of computer and installation and configuration, and provides technical assistance for system and network administrators deploying the system.

Any software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software.

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Printed in Taiwan

Unpacking the System

After unpacking the System carton, check to make sure all the following items are included and in good condition.

Intel® 7th Gen. Core™ U-series® SoC SERIES main system x 1

Accessories:

- 1x Quick Installation Guide Panel PC
- 1x QPI Panel PC/Panel Module/Box Module
- 1x Wi-Fi antenna (optional)
- 1x VESA mount M4x5 Screw set (4pc)
- 1x Drivers/ Manual CD
- 1x Power Cord
- 1x HDD Screw Set (4pc)
- 1x Bezel Mount M4 screw set
- 1x Waterproof Rubber for Bezel Mount
- 1x Power Adaptor

Make sure that all of the items listed above are present. If any of the above items is missing, contact your supplier immediately.

Warranty

All products are warranted against defective materials for two year (One year for touch and panel) starting from the date of delivery to the original buyer.
Contact your supplier for a copy of the Warranty Policy & RMA Form.

Important Safety Precautions

1. Before getting started, read these instructions and save them for later reference.
2. Please disconnect this equipment from any AC outlet before cleaning. Clean with a damp or dry cloth only. Do not spray any liquid cleaner directly on the screen.
3. The power outlet socket used to plug in the computer power cord must be located near the system and easily accessible. Do not use outlets on the same circuit of the systems that are regularly switched on and off.
4. Do not expose the power cord, extension cord and power outlet to moisture or traffic intensive walkways.
5. Install the equipment on a sturdy and reliable surface to prevent damage caused by dropping.
6. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
7. If the Equipment is sharing an extension cord with other devices, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating.
8. If an operating system is not installed, an operating system must be loaded first before installing any software into the equipment.
9. Disconnect the power cord from the computer before any installation of internal components. Make sure both the computer and the external devices are turned off. A sudden surge of power may damage sensitive components. Also make sure the computer is properly grounded.
10. During installation of any internal components, be sure to ground yourself to discharge any static electricity. Most electronic components are highly sensitive to static electric charge. Use a grounding wrist strap and place all electronic components in any static-shielded devices. If a wrist-grounding strap is not available, ground your self by briefly touching an unpainted piece of metal.
11. The brightness of the flat panel display will decrease with use over long periods of time. However, hours of use will vary depending on the application environment.
12. If the equipment is equipped with a touch panel, avoid using sharp or metallic objects to operate the touch panel. Scratches on the touch panel may cause mal-calibration or serious damage to the panel.
13. The LCD panel display is not resistive to shock or vibration. When disassembling the equipment, make sure the LCD panel is properly and securely installed.

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Chapter 1 INTRODUCTION

This chapter includes the system background information.

- General Information
- Specification
- Dimensions

1.1 General Information

The System is a fanless mini size panel PC with a compact aluminum chassis as a heat sink, which delivers reliable performance and offers easy maintenance when service is required.

Featuring Intel® 7th Gen. Core™ U-series or Celeron® processor, system combines enhanced digital media performance with unique thermal solution, and minimizes power consumption when running at the speed of i3 (2.2GHz) / i5 (2.6GHz-3.5GHz) / i7 (2.8GHz – 3.9GHz), bringing up a quieter and cooler system.

The versatile design can support one 2.5” HDD drive bay and 2xDDR4 memory up to 32GB. The myriad of I/O ports located on the main system box includes two 10/100/1000 Ethernet LAN ports, four USB ports (4x USB 3.0, 2x USB 2.0), three serial ports (2x RS232, 1x RS232/422/485), 1X DP, 1X Line-Out, 1X Mic-In, 1xHDMI, 1x Power Button with PWR LED, 1x mini-PCIe Slot.

Chapter 2 USING THE SYSTEM

2.1 Identifying the System

2.1.1 Back view

12.1” system



2.1.2 Box IO view



2.2 First Time System Setup

To set up the system for the first-time, you should have the following items ready. These items are either included in the accessory box or available from your local computer parts store.

- System Utility CD (Included)
- Power cord (Included)
- USB Keyboard (Not included)
- USB Mouse (Not included)
- USB CD-ROM Drive (Not included)
- Operating System (OS) Installation CD (Not included)

2.2.1 Hardware Installation Procedure

(Prior to turning the power on)

1. Connect a USB keyboard to a USB port.
2. Connect a USB mouse to a USB port.
3. Connect the male end of the power cord to an electrical outlet and female end to the power adaptor.
4. Connect the USB CD-ROM drive.
5. Connect the power adaptor locking connector to the system.

2.2.2 System BIOS Setup

If you are a commercial user, the system should have been set up and configured by your distributor already. In the case where you may find it necessary to change some system configuration information, you will need to run the Basic Input Output System (BIOS) setup program. Under the following conditions, the CMOS settings may be changed:

1. The system is starting and being configured for the first time with new components.
2. The hardware devices attached to the system have been changed.
3. The CMOS memory has lost power and the configuration information has been erased.

The BIOS setup program is stored in ROM, which can be accessed by pressing <**DEL**> key on the keyboard immediately when the system is powered on. In order to retain the specified setup information when the system power is turned off, the system setup information is stored in a battery-backed CMOS RAM. The battery is to ensure the settings will not be erased when the computer is turned off or reset. When the computer is powered on again, the system will read the settings stored in the CMOS RAM and compare them to the equipment check conducted during the power on self-test (POST). If any error or mismatch occurs, an error message will be shown on the screen and the computer will be prompted to run the setup program.

2.2.3 Operating System and Driver

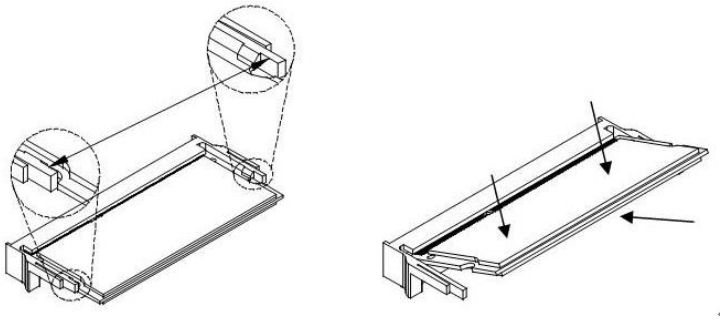
The standard system may not be equipped with an operating system (OS). If you are a commercial user, the system is likely to have been pre-installed with a proper operating system and software drivers by your dealer or system integrator. If the system is not pre-installed with any system OS and drivers or you intend to install your preferred ones, you will need to load an OS and software into the system.

1. Use the External USB CD-ROM/DVD-ROM Drive to load an OS from a bootable CD. Recent releases of operating systems include setup programs that load automatically and guide you through the installation. You can also refer to your OS user manual for instructions on formatting or partitioning the hard disk drive before any software installation.
2. Install software drivers for your operating system and any peripherals that are connected. System Utility CD includes software drivers for Chipset, Audio, LAN, Touch screen, VGA Display, Camera, 3GS Module and Wireless drivers. See driver installation chapters for more information.

2.3 Installation Memory Module

The main board provides two 204-pin SODIMM slot. The socket supports up to 16GB DDR4 and supports up to total of 32GB. When installing the Memory device, please follow the steps below：

1. Detach the main system box from the system.
2. Open the maintenance window cover by removing the 5 screws holding it in place.
3. Locate the SODIMM slot in the back side of the system box.
4. Unlock a SODIMM slot by pressing the retaining clips outward.
5. Align a SODIMM on the socket such that the notch on the SODIMM matches the break on the slot.
6. Firmly insert the SODIMM into the slot until the retaining clips snap back in place and the SODIMM is properly seated.



Available DDR4 configurations refer to the table below for available DDR4 configurations on the mainboard.

Slot	Module Size	Total
DDR3L	1GB, 2GB, 4GB, 8GB, 16GB	1GB-16GB
Maximum supported system memory		32GB

Chapter 3 SERVICE PROCEDURES

3.1 Remove System Box from Panel

Release the 2x thumb screws as indicated by the red circle.



Once the thumb screws are removed, pull system box downwards to detach the system module from the panel module.



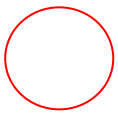
To Install System Module back with Panel Module, please reverse the removing procedure.

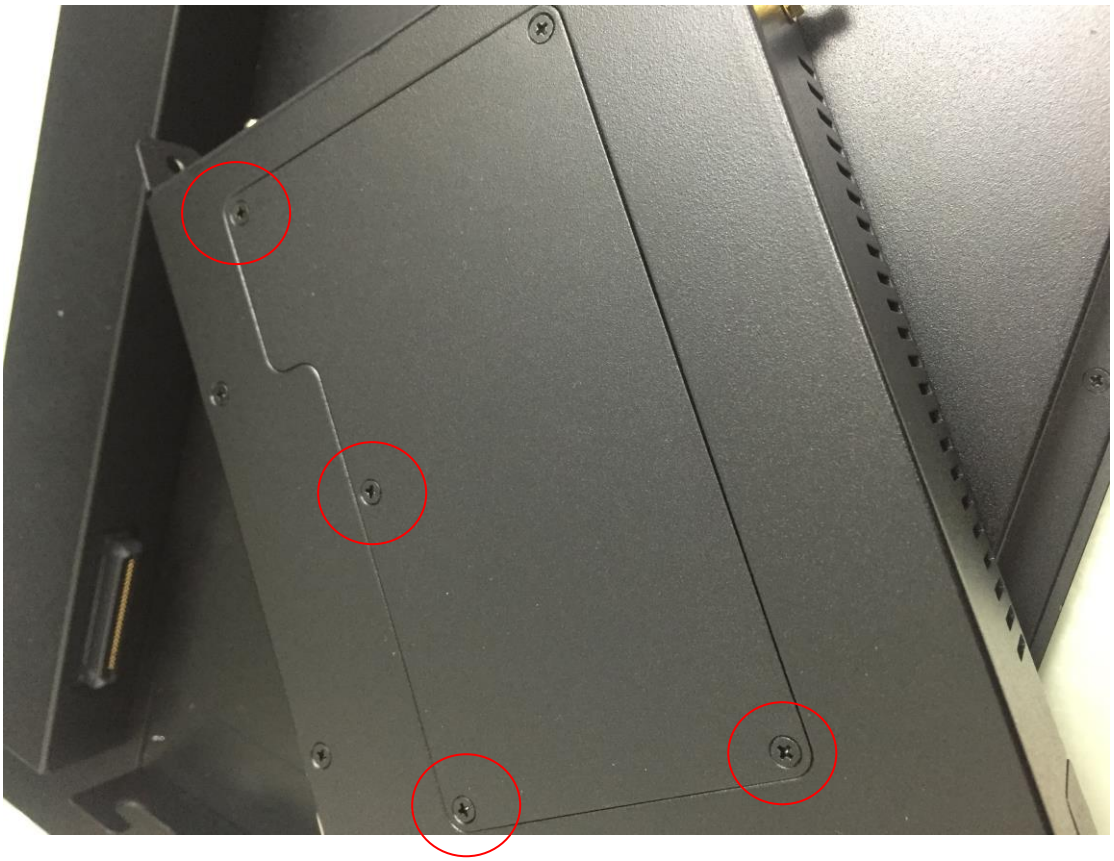
3.2 Install/Replace Ram Module

1. Please remove System Module from Panel Module following the steps in 3.1 Remove System Box from Panel.

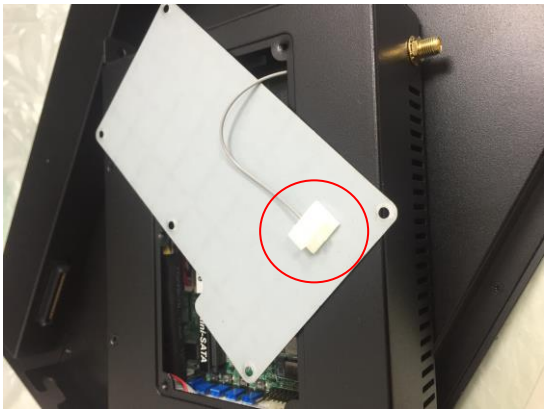
2. Flip System Box around to see the System Service Window.

3. Remove 5x Screw that's securing the System Service Window as indicated by the red circle.





4. Remove System Service Window. **Caution:** For System without WIFI, please carefully un-attach the pre-installed WIFI Cable as shown in the following image. (Indicated by the red Circle)



5. Install/Replace Ram Module to the slot as indicated by the red square.

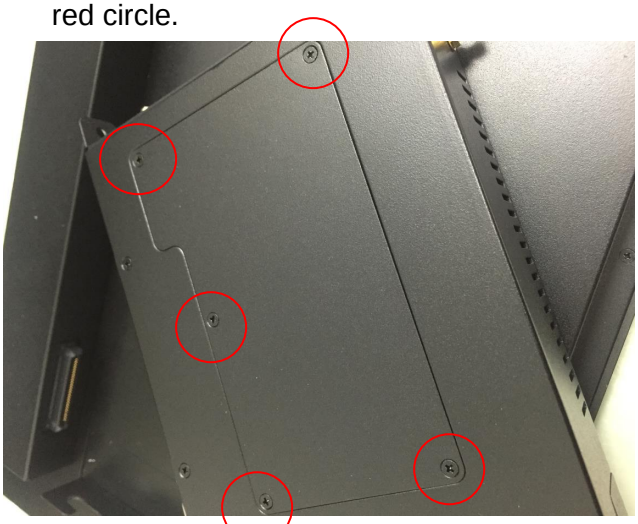

MEMXPRO
8GB DDR4-2400-17 SODIMM
D4S8GHLPGEC
RoHS
O1612050040019
WARRANTY VOID IF REMOVED LABEL
MAC ID: 28E347D2A5C7 G86C00054A10
S/N: 6611LHMOW42018816
Made in China
CCAF12LP0640T4
Rev:01

3.3 Install/Replace WIFI Module

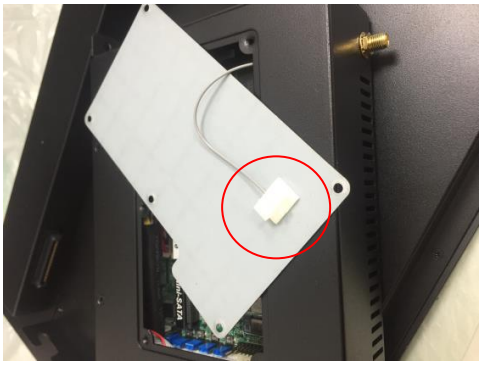
1. Please remove System Module from Panel Module following the steps in 3.1 Remove System Box from Panel.

2. Flip System Box around to see the System Service Window.

3. Remove 5x Screw that's securing the System Service Window as indicated by the red circle.



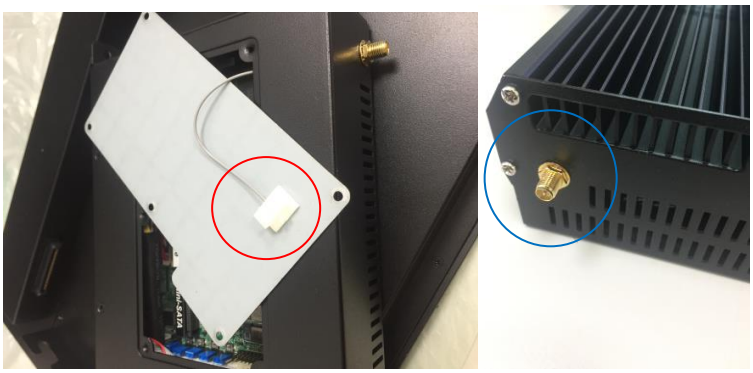
4. Remove System Service Window. **Caution:** For System without WIFI, please carefully un-attach the pre-installed WIFI Cable as shown in the following image. (Indicated by the red Circle)



5. Install/Replace Mini-PCIe card to the slot as indicated by the red square.

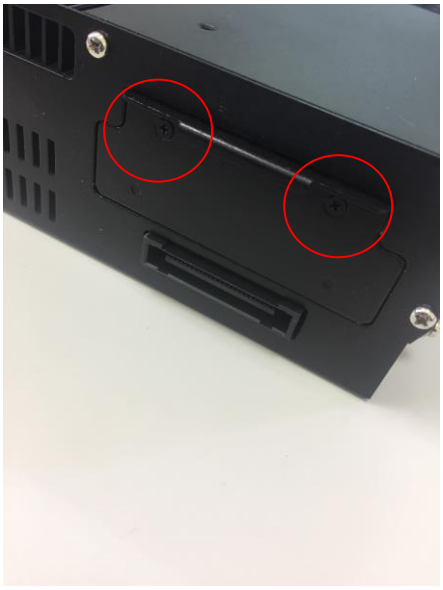


6. Connect the Pre-Installed WIFI Cable (Indicated by the Red Circle) to the WIFI Module and Attach the Antenna that's included to the top of the system BOX (Indicated by Blue Circle).



3.4 Install/Replace 2.5” HDD/SSD

1. Remove the two locking screw on the front of the HDD Tray. (Indicated by the Red Circle)



2. Pull HDD Tray Outward.



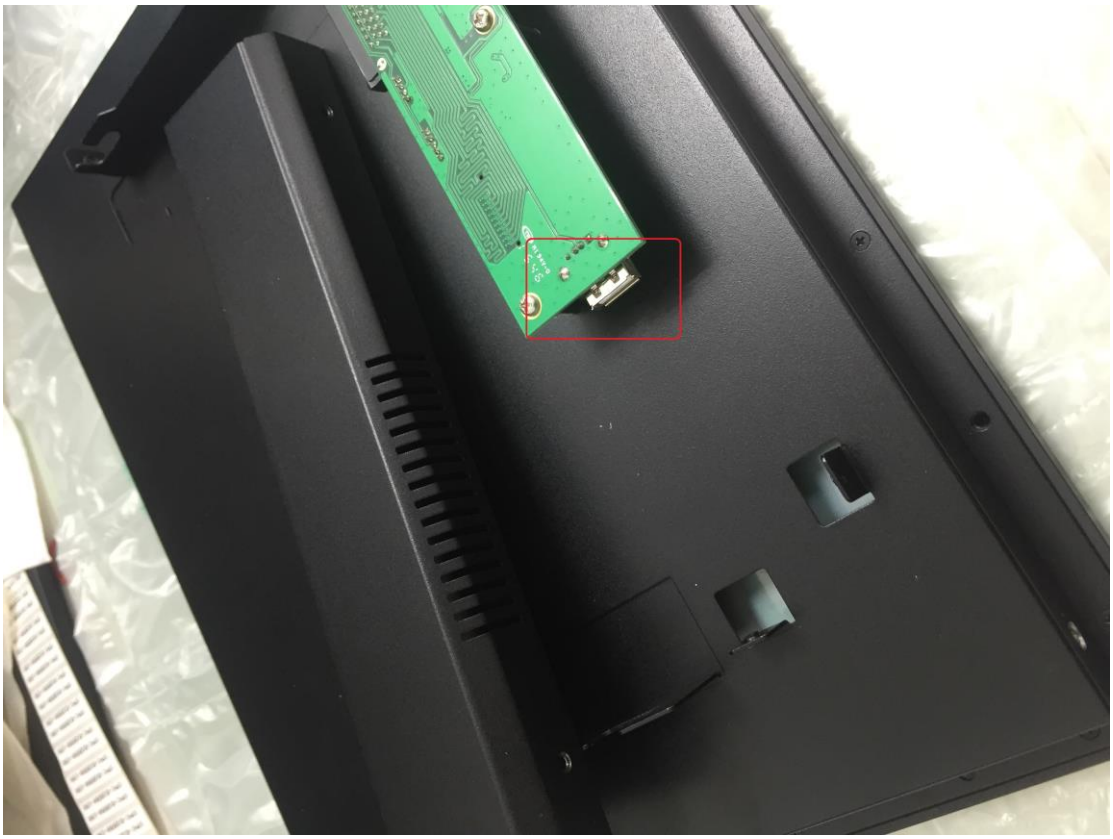
3. Attach the HDD to the Tray with 4x HDD Screw Set that are included with the system.
4. To complete the installation Process, please reverse the remove procedures.

3.5 Hidden USB for USB Key/Dongle

1. Remove System Module from Panel Module following Step 3.1.
2. Remove 4x Screw that's securing the Top cover. (2x on the side and 2x on top) Top Cover Indicated by Red Square



3. Lift up the System Top Cover to gain access to the Hidden USB. (Hidden USB Shown by Red Square)



4. Once USB Key/Dongle is installed, close the top cover by reverse the removing steps.

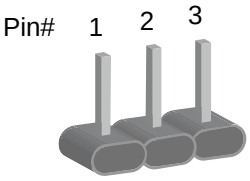
3.6 Jumper Setting Guide

3.6.1 Setting the Jumpers

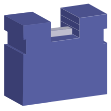
Set up and configure your system by using jumpers for various settings and features according to your needs and applications. Contact your supplier if you have doubts about the best configuration for your use.

How to Set Jumpers

Jumpers are short-length conductors consisting of several metal pins with a non-conductive base mounted on the circuit board. Jumper caps are used to have the functions and features enabled or disabled. If a jumper has 3 pins, you can connect either PIN1 to PIN2 or PIN2 to PIN3 by shorting.

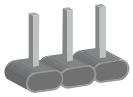
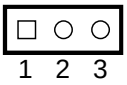
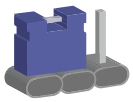
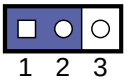
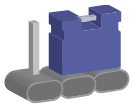
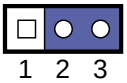


A 3-pin jumper



A jumper cap

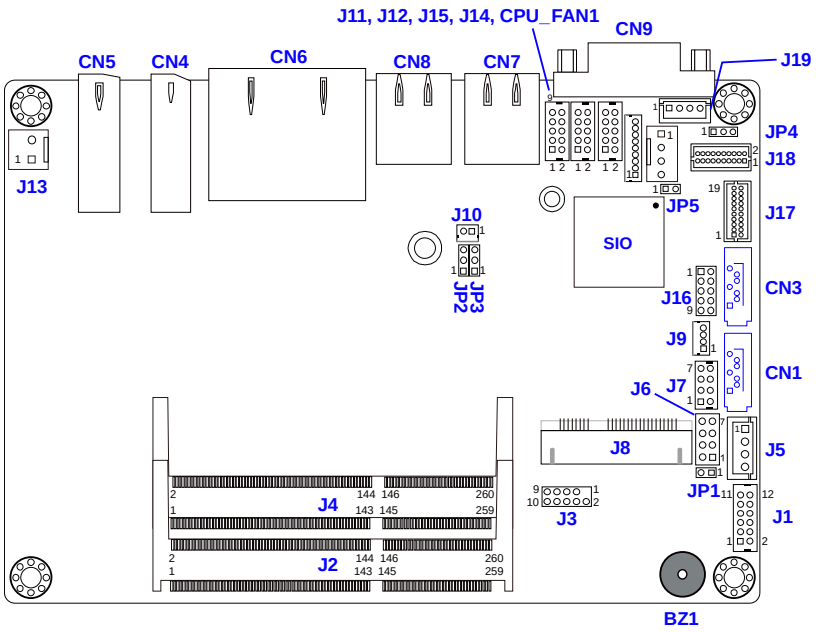
Refer to the illustration below to set jumpers.

Pin closed	Oblique view	Schematic illustration in the manual
Open		
1-2		
2-3		

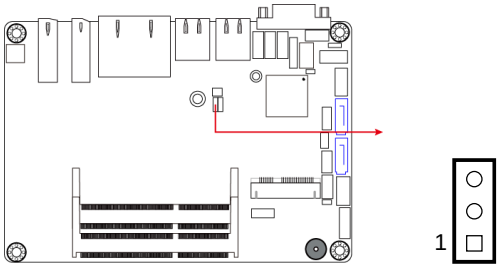
When two pins of a jumper are encased in a jumper cap, this jumper is **closed**, i.e. turned **On**.

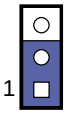
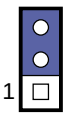
When a jumper cap is removed from two jumper pins, this jumper is **open**, i.e. turned **Off**.

3.6.2 Jumper Setting Layout

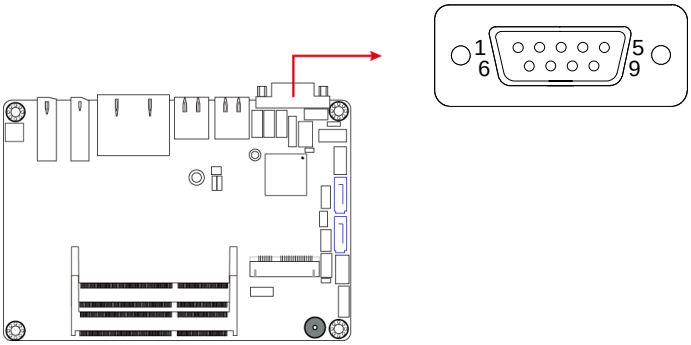


2.4.1 CMOS Data Clearance (JP2)



Function	Pin closed	Illustration
Normal (default)	1-2	
Clear CMOS	2-3	

2.5.1 COM1 RS-232/422/485 Port (CN9)



COM1 port is jumper-less and configurable in BIOS.

Pin	Assignment	Pin	Assignment
1	DCD, Data carrier detect	6	DSR, Data set ready
2	RXD, Receive data	7	RTS, Request to send
3	TXD, Transmit data	8	CTS, Clear to send
4	DTR, Data terminal ready	9	RI, Ring indicator
5	Ground		

Pin	Assignment		
	RS-232	RS-422	RS-485
1	DCD	TX-	DATA-
2	RX	TX+	DATA+
3	TX	RX+	NC
4	DTR	RX-	NC
5	Ground	Ground	Ground
6	DSR	NC	NC
7	RTS	NC	NC

8	CTS	NC	NC
9	RI	NC	NC

4 BIOS Set up

This chapter describes the different settings available in the AMI BIOS that comes with the board. The topics covered in this chapter are as follows:

- Main Settings
- Advanced Settings
- Chipset Settings
- Security Settings
- Boot Settings
- Save & Exit

4.1 Introduction

The BIOS (Basic Input/Output System) installed in the ROM of your computer system supports Intel® processors. The BIOS provides critical low-level support for standard devices such as disk drives, serial ports and parallel ports. It also provides password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system.

4.2 BIOS Setup

The BIOS provides a Setup utility program for specifying the system configurations and settings. The BIOS ROM of the system stores the Setup utility. When you turn on the computer, the BIOS is immediately activated. Press the <Del> key immediately allows you to enter the Setup utility. If you are a little bit late pressing the <Del> key, POST (Power On Self Test) will continue with its test routines, thus preventing you from invoking the Setup.

If you still need to enter Setup, restart the system by pressing the ”Reset” button or simultaneously pressing the <Ctrl>, <Alt> and <Delete> keys.
You can also restart by turning the system Off and back On again.

The following message will appear on the screen:

```
Press <DEL> to Enter Setup
```

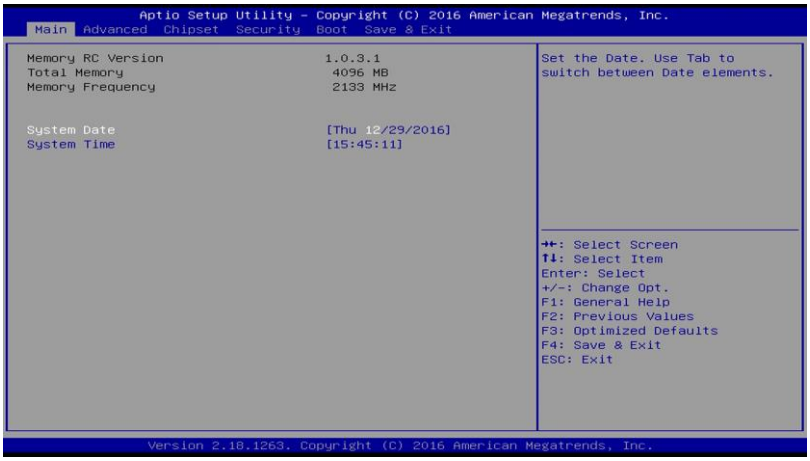
In general, press the arrow keys to highlight items, <Enter> to select, the <PgUp> and <PgDn> keys to change entries, <F1> for help, and <Esc> to quit.

When you enter the BIOS Setup utility, the *Main Menu* screen will appear on the screen. The Main Menu allows you to select from various setup functions and exit choices.

Warning: It is strongly recommended that you avoid making any changes to the chipset defaults.

These defaults have been carefully chosen by both AMI and your system manufacturer to provide the absolute maximum performance and reliability. Changing the defaults could make the system unstable and crash in some cases.

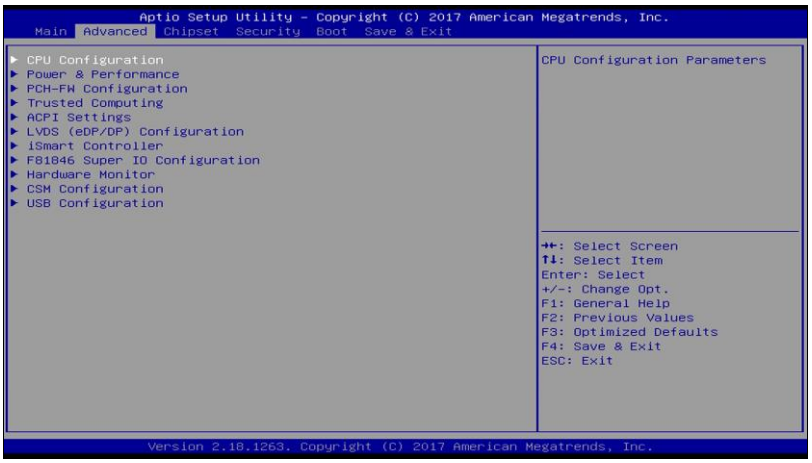
4.3 Main Settings



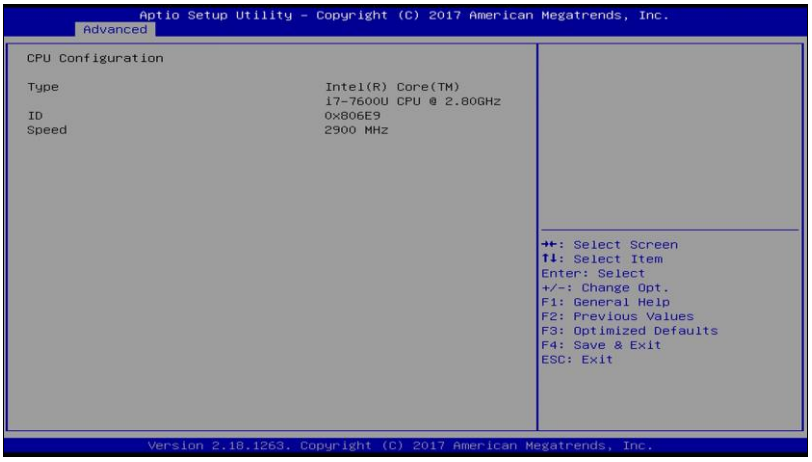
BIOS Setting	Description
System Date	Sets the date. Use the <Tab> key to switch between the data elements.
System Time	Set the time. Use the <Tab> key to switch between the data elements.

4.4 Advanced Settings

This section allows you to configure, improve your system and allows you to set up some system features according to your preference.



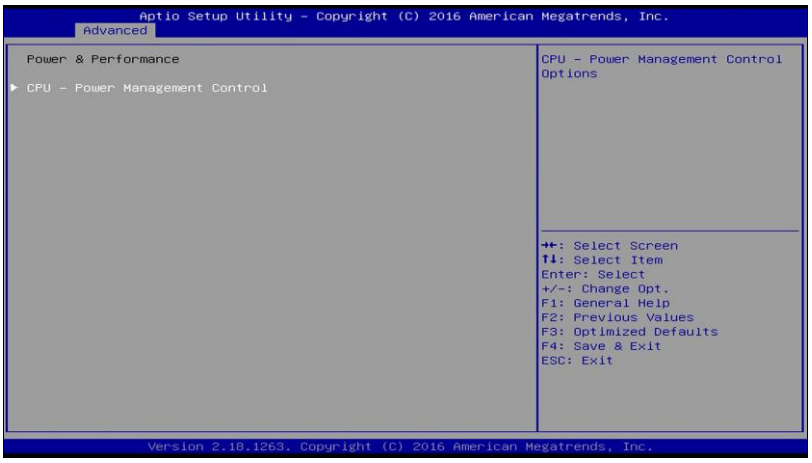
4.4.1 CPU Configuration

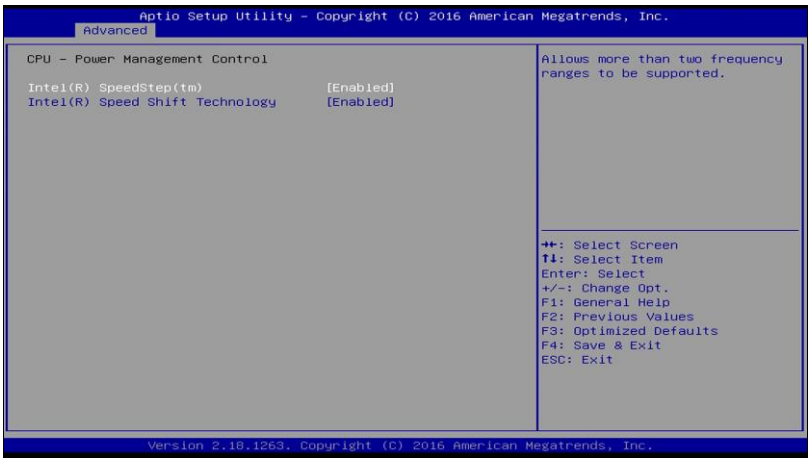


Displays the type, ID and speed of the CPU.

Note: The CPU information displayed varies upon your actual CPU type.

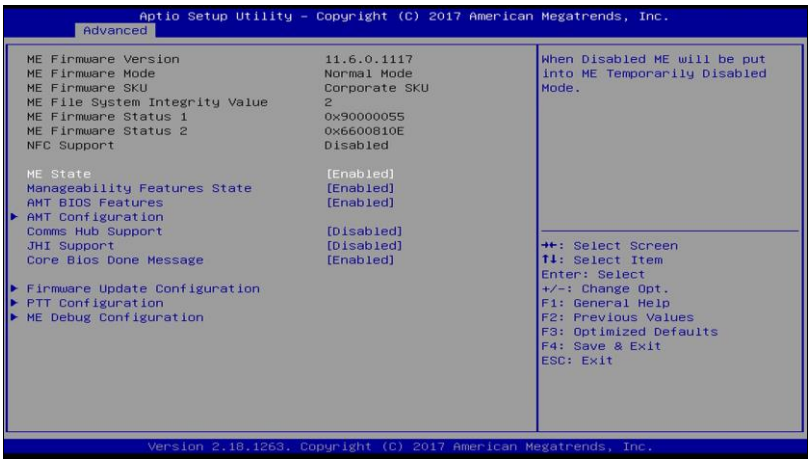
4.4.2 Power & Performance





BIOS Setting	Description
Intel(R) SpeedStep(tm)	Allows more than two frequency ranges to be supported.
Intel(R) Speed Shift Technology	Enables / Disables Intel(R) Speed Shift Technology support. Enabling will expose the CPPC v2 interface to allow for hardware controlled P-states.

4.4.3 PCH-FW Configuration

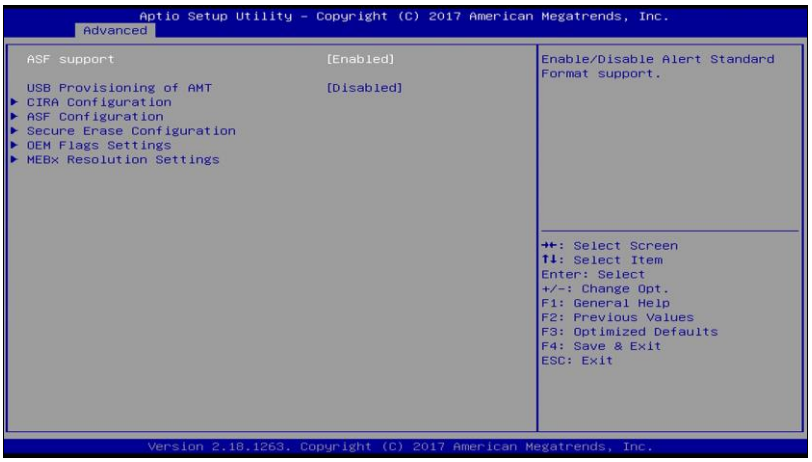


BIOS Setting	Description
ME State	When disabled ME will be put into ME Temporarily Disabled Mode.
Manageability Features State	Enables / Disables Intel(R) manageability features in FW. To disable support platform must be in an unprovisioned state first.
AMT BIOS Features	When disabled AMT BIOS features are no longer supported and user is no longer able to access MEBx Setup. **Note:** This option does not disable manageability features in FW.
AMT Configuration	Configures Intel(R) Active Management Technology Parameters.
Comms Hub Support	Enables / Disables support for Comms Hub.
JHI Support	Enables / Disables Intel(R) DAL Host Interface Service (JHI).
Core BIOS Done Message	Enables / Disables Core BIOS done message sent to ME.
Firmware Update Configuration	Configures Management Engine Technology parameters.

PTT Configuration	Configures PTT capability or state.

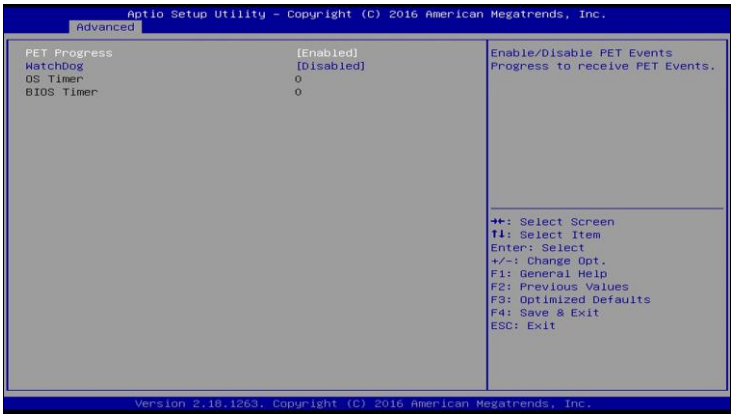
BIOS Setting	Description
ME Debug Configuration	Configures ME debug options. **Note:** This menu is provided for testing puropses. It is recommended to leave the options in their default states.

4.4.3.1. AMT Configuration



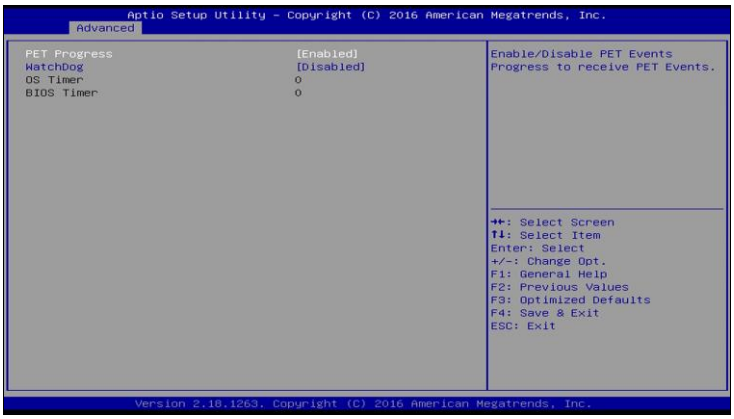
BIOS Setting	Description
ASF Support	Enables / Disables Alert Standard Format support.
USB Provisioning of AMT	Enables / Disables of AMT USB provisioning.
CIRA Configuration	Configures remote assistance process parameters.
ASF Configuration	Configures Alert Standard Format parameters.
Secure Erase Configutation	Secures erase configuration menu.
OEM Flags Settings	Configures OEM Flags.
MEBx Resolution Settings	Shows resolution settings for MEBx display modes.

CIRA Configuration



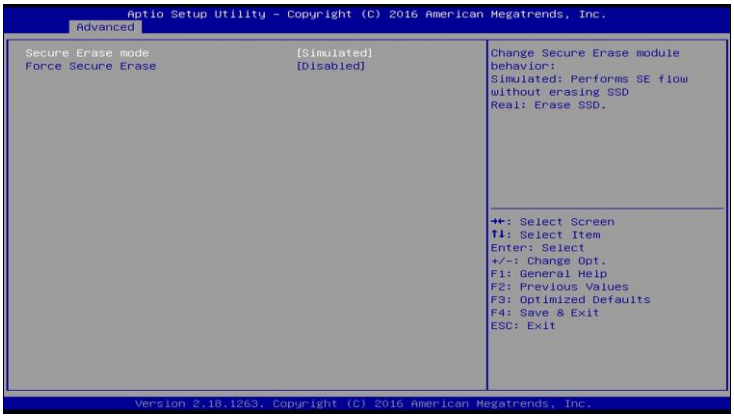
BIOS Setting	Description
Activate Remote Assistance Process	Trigger CIRA boot. **Note:** Network Access must be activated first from MEBx Setup.

ASF Configuration



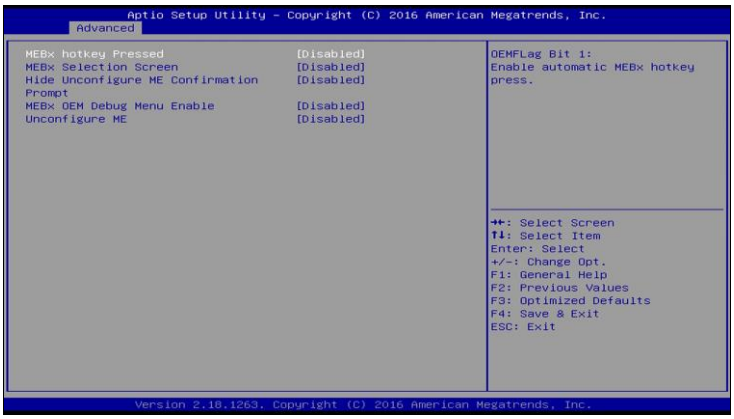
BIOS Setting	Description
PET Progress	Enables / Disables PET events progress to receive PET events.
WatchDog	Enables / Disables the watchdog timer.

Secure Erase Configuration:



BIOS Setting	Description
Secure Erase Mode	Changes Secure Erase module behavior. • **Simulated** performs SE flow without erasing SSD. • **Real** erases SSD.
Force Secure Erase	Force Secure Erase on next boot.

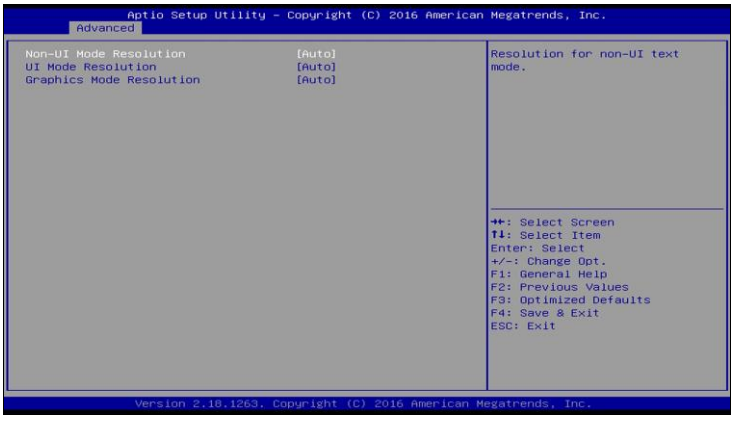
OEM Flags Settings:



BIOS Setting	Description
MEBx hotkey Pressed	OEMFlag Bit 1: enables automatic MEBx hotkey press.

BIOS Setting	Description
OEMFLag Bit 1	Enables / Disables Automatic MEBx hotkey press.
MEBx Selection Screen	OEMFlag Bit 2: enables MEBx selection screen with 2 options. • Press **1** to enter ME configuration screens. • Press **2** to initiate a remote connection. **Note:** Network access must be activated from MEBx Setup for this screen to be displayed.
Hide Unconfigure ME Confirmation Prompt	OEMFlag Bit 6: hides the unconfigure ME confirmation prompt when attempting ME unconfiguration.
MEBx OEM Debug Menu Enable	OEMFlag Bit 14: enables OEM debug menu in MEBx.
Unconfigure ME	OEMFlag Bit 15: Unconfigures ME with resetting MEBx password to default.

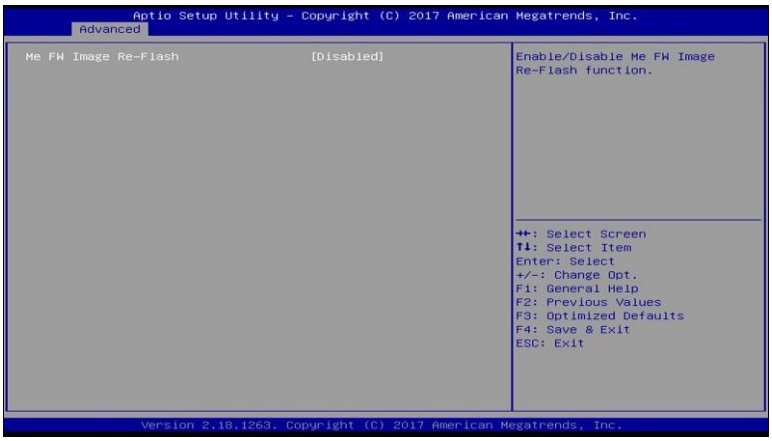
MEBx Resolution Settings:



BIOS Setting	Description
Non-UI Mode Resloution	Sets resolution fro non-UI text mode.
UI Mode Resolution	Sets resolution for UI text mode.

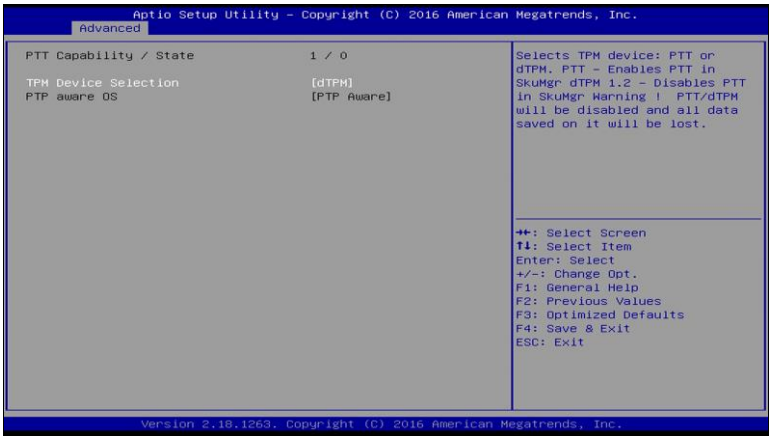
Graphics Mode Resolution	Sets resolution for graphics mode.

4.4.3.2. Firmware Update Configuration



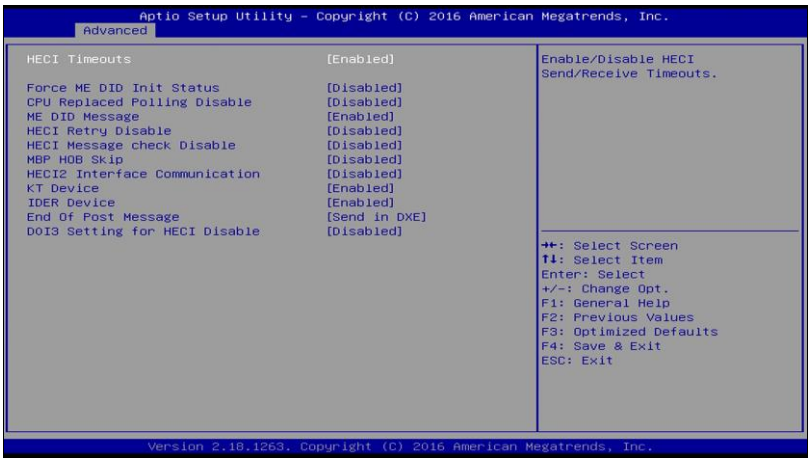
BIOS Setting	Description
ME FW Image RE-Flash	Enables / Disables ME FW Image Re-Flash function.

4.4.3.3. PTT Configuration



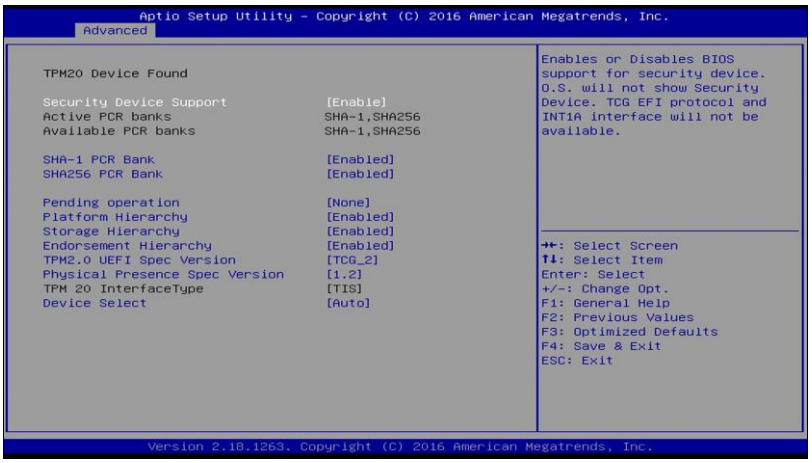
BIOS Setting	Description
TPM Device Selection	Selects TPM device: PTT or dTPM. • **PTT** enables PTT in SkuMgr. • **dTPM 1.2** disables PTT in SkuMgr warning. PTT/dTPM will be disabled and all data saved on it will be lost.

4.4.3.4. ME Debug Configuration



BIOS Setting	Description
HECI Timeouts	Enables / Disables HECI sending/receiving timeouts.
Force ME DID Init Status	Forces the DID initialization status value.
CPU Replaced Polling Disable	Disables CPU replacement polling loop.
ME DID Message	Enables / Disables ME DID message (disable will prevent the DID message from being sent).
HECI Retry Disable	Setting this option disables retry mechanism for all HECI APIs.
HECI Message Check Disable	Disables message check for BIOS boot path when sending messages.
MBP HDB Skip	Enables / Disables skip of MBP HDB.
HECI2 Interface Communicationn	Adds / Removes HECI2 device from PCI space.
KT Device	Enables / Disables KT device.
IDER Device	Enables / Disables IDER device.
End of Post Message	Enables / Disables end of Post message sent to ME.
DOI3 Setting for HECI Disable	Disables setting DOI3 bit for all HECI devices.

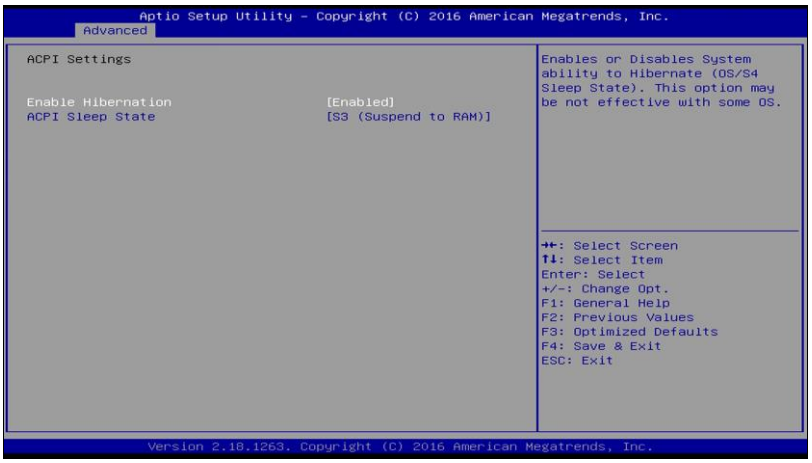
4.4.4 Trusted Computing



BIOS Setting	Description
Security Device Support	Enables / Disables BIOS support for security device. OS will not show security device. TCG EFI protocol and INTIA interface will not be available.
SHA-1 PCR Bank	Enables / Disables SHA-1 PCR Bank.
SHA256 PCR Bank	Enables / Disables SHA256 PCR Bank.
Pending operation	Schedule an operation for the security device. Note: Your computer will reboot during restart in order to change state of security device.
Platform Hierarchy	Enables / Disables platform hierarchy.
Storage Hierarchy	Enables / Disables storage hierarchy.
Endorsement Hierarchy	Enables / Disables endorsement hierarchy.
TPM2.0 UEFI Spec Version	Selects the supported TCG version based o your OS. • **TCG_1_2:** supports Windows 8 /10. • **TCG_2:** supports new TCG2 protocol and event format for Windows 10 or later.

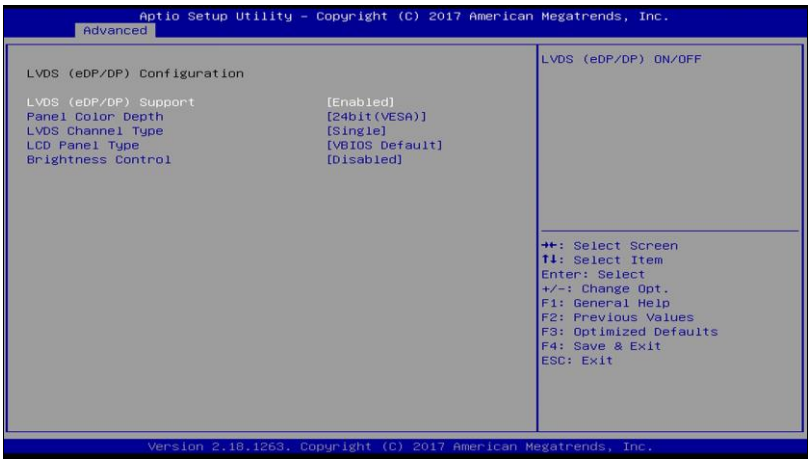
BIOS Setting	Description
Physical Presence Spec Version	Selects to show the PPI Spec Version (1.2 or 1.3) that the OS supports. **Note:** Some HCK tests might not support 1.3.
Device Select	• **TPM 1.2** will restrict support to TPM 1.2 devices only. • **TPM 2.0** will restrict support to TPM 2.0 devices only. • **Auto** will support both with the default being set to TPM 2.0 deices if not found, and TPM 1.2 device will be enumerated.

4.4.5 ACPI Settings



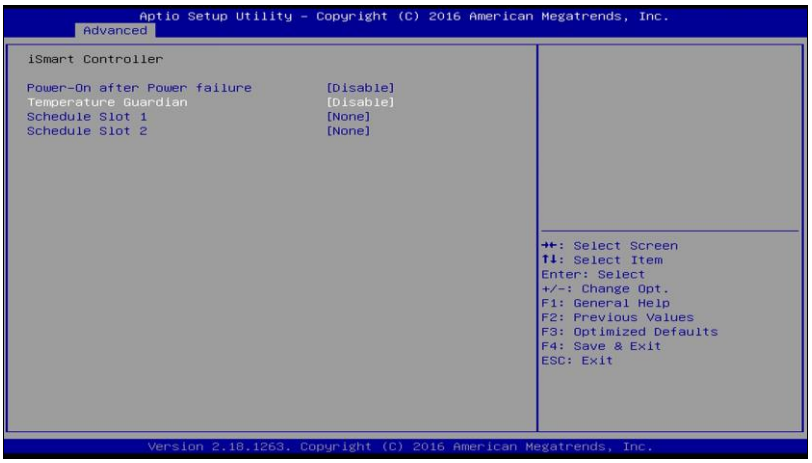
BIOS Setting	Description
Enable Hibernation	Enables / Disables the system ability to hibernate (OS/S4 Sleep State). This option may be not effective with some OS.
ACPI Sleep State	Selects an ACPI sleep state (Suspend Disabled or S3) where the system will enter when the Suspend button is pressed.

4.4.6 LVDS (eDP/DP) Configuration



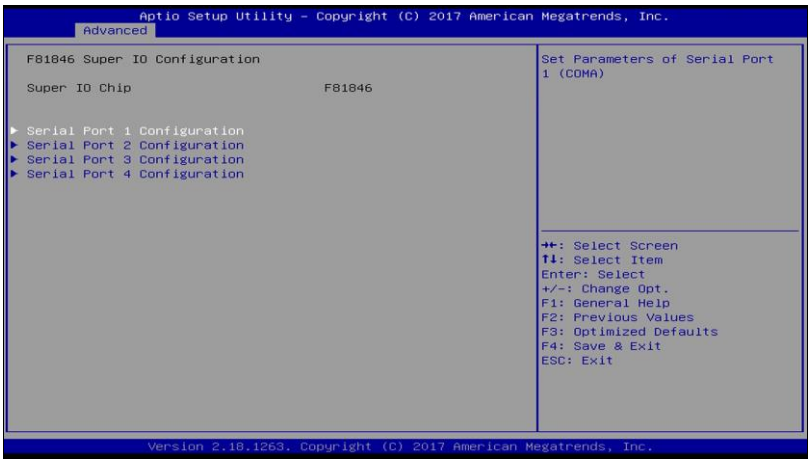
BIOS Setting	Description
LVDS (eDP/DP) Support	Enables / Disables LVDS (eDP/DP).
Panel Color Depth	Selects the panel collor depth. Options: 18 bit, 24 Bit (VESA), 24 bit (JEIDA)
LVDS Channel Type	Chooses the LVDS as single or dual channel.
LCD Panel Type	Selects LCD panel used by Intel Graphics Device by selecting the appropriate setup item. Resolution Options: VBIOS Default, 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1366 x 768, 1600 x 1200, 1680 x 1050, 1920 x 1200, 1440 x 900, 1600 x 900, 1280 x 800, 1920 x 1080, 2048 x 1536
Brightness Control	Enables / Disables the brightness control.

4.4.7 iSMART Controller



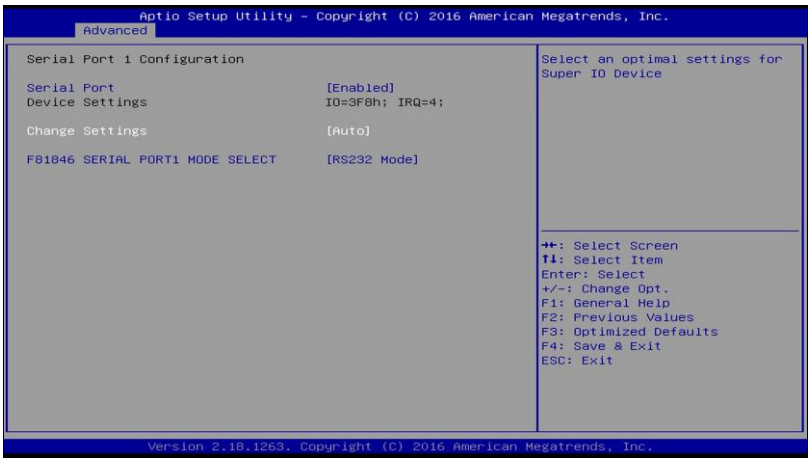
BIOS Setting	Description
Power-On after Power failure	Enables / Disables the system to be turned on automatically after a power failure.
Temperature Guardian	Generate the reset signal when system hands up on POST.
Schedule Slots	Sets up the hour / minute / day for the power-on schedule for the system. Options: • None • Power On • Power On / Off

4.4.8 F81846 Super IO Configuration



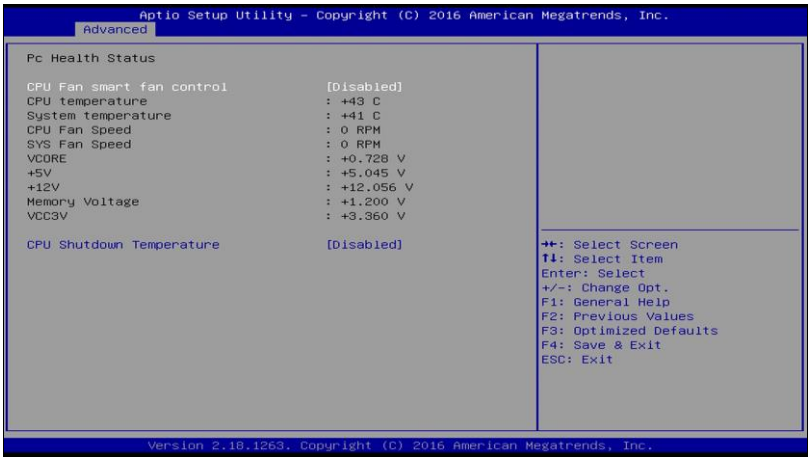
BIOS Setting	Description
Serial Ports Configuration	Sets parameters of serial ports. Enables / Disables the serial port and select an optimal setting for the Super IO device.

4.4.8.1. Serial Port 1 Configuration



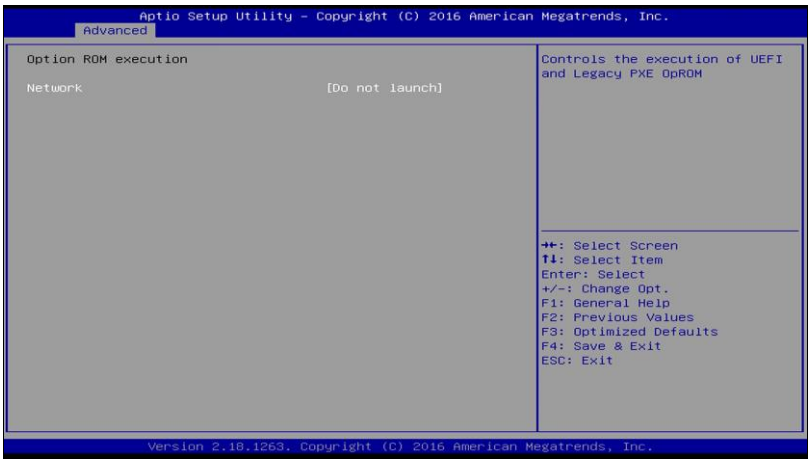
BIOS Setting	Description
Serial Port	Enables / Disables the serial port.
Change Settings	Selects an optimal settings for Super I/O device. Options: • Auto • IO = 3F8h; IRQ = 4 • IO = 3F8h; IRQ = 3, 4, 5, 6, 7, 9, 10, 11, 12 • IO = 2F8h; IRQ = 3, 4, 5, 6, 7, 9, 10, 11, 12 • IO = 3E8h; IRQ = 3, 4, 5, 6, 7, 9, 10, 11, 12 • IO = 2E8h; IRQ = 3, 4, 5, 6, 7, 9, 10, 11, 12
F81846 Serial Port 1 Mode Select	Changes the serial port mode to RS-232 / 422 / 485.

4.4.9 Hardware Monitor



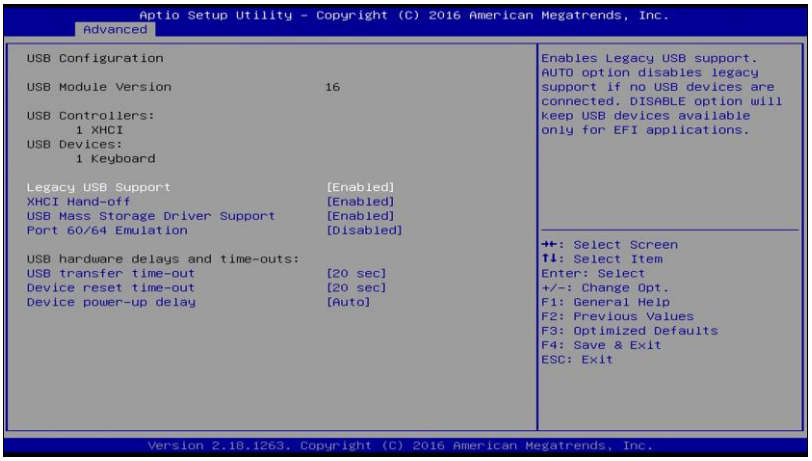
BIOS Setting	Description
CPU Fan smart fan control	Enables / Disables smart fan control.
Temperatures / Voltages	These fields are the parameters of the hardware monitoring function feature of the motherboard. The values are read-only values as monitored by the system and show the PC health status.
CPU Shutdown Temperature	Sets a threshold of temperature to shut down if CPU goes overheated. Options: Disabled / 70 °C / 75 °C / 80 °C / 85 °C / 90 °C / 95 °C

4.4.10 CSM Configuration



BIOS Setting	Description
Network	Controls the execution of UEFI and Legacy PXE OpROM.

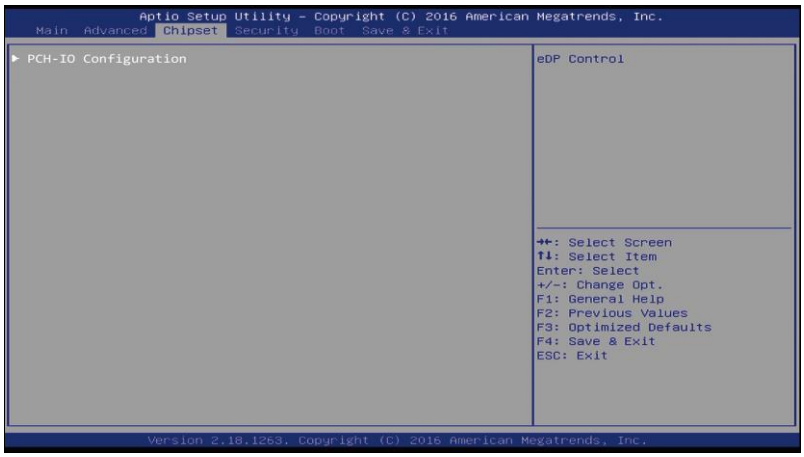
4.4.11 USB Configuration



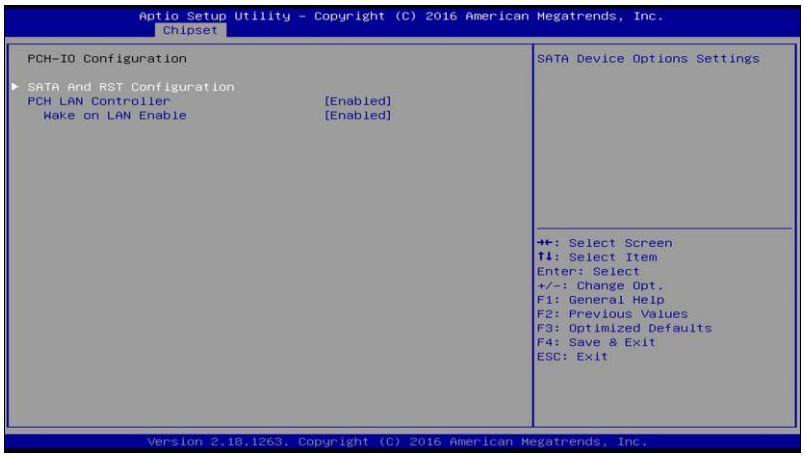
BIOS Setting	Description
Legacy USB Support	• **Enabled** enables Legacy USB support. • **Auto** disables legacy support if there is no USB device connected. • **Disabled** keeps USB devices available only for EFI applications.
XHCI Hand-off	This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.
USB Mass Storage Driver Support	Enables / Disables the support for USB mass storage driver.
Port 60/64 Emulation	Enables / Disables the support for I/O port 60h / 64h emulation. This should be enabled for the complete USB keyboard legacy support for non-USB aware OSes.
USB Transfer time-out	The time-out value (1 / 5 10 / 20 secs) for Control, Bulk, and Interrupt transfers.
Device reset time-out	Gives seconds (10 / 20 / 30 / 40 secs) to delay execution of Start Unit command to USB mass storage device.

BIOS Setting	Description
Device power-up delay	The maximum time the device will take before it properly reports itself to the Host Controller. **Auto** uses default value for a Root port it is 100ms. But for a Hub port, the delay is taken from Hub descriptor.

4.5 Chipset Settings

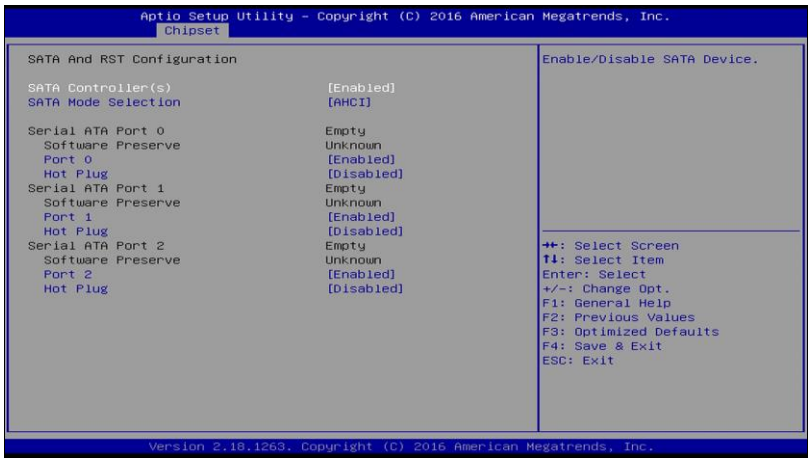


4.5.1 PCH-IO Configuration



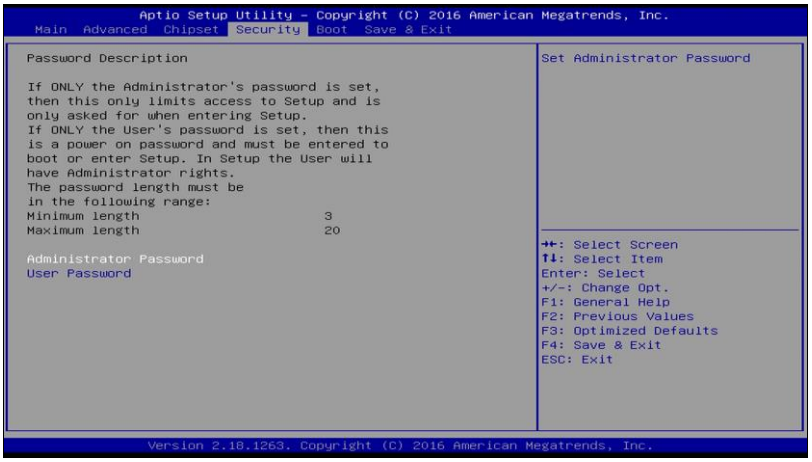
BIOS Setting	Description
SATA and RST Configuration	SATA device options and settings
PCH LAN Controller	Enables / Disables onboard NIC.
Wake on LAN Enable	Enables / Disables integrated LAN to wake the system.

4.5.1.1. SATA and RST Configuration:



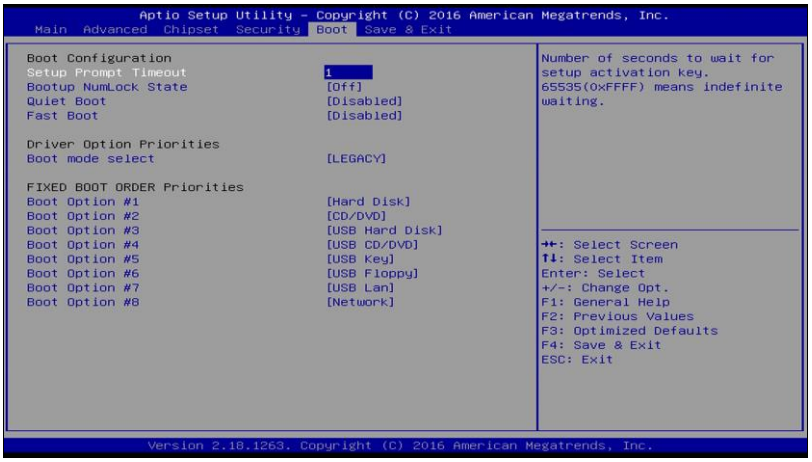
BIOS Setting	Description
SATA Controller(s)	Enables / Disables the Serial ATA.
SATA Mode Selection	Selects IDE or AHCI Mode.
Serial ATA Port 0~2	Enables / Disables Serial Port 0 ~ 2.
SATA Ports Hot Plug	Enables / Disables SATA Ports HotPlug.

4.6 Security Settings



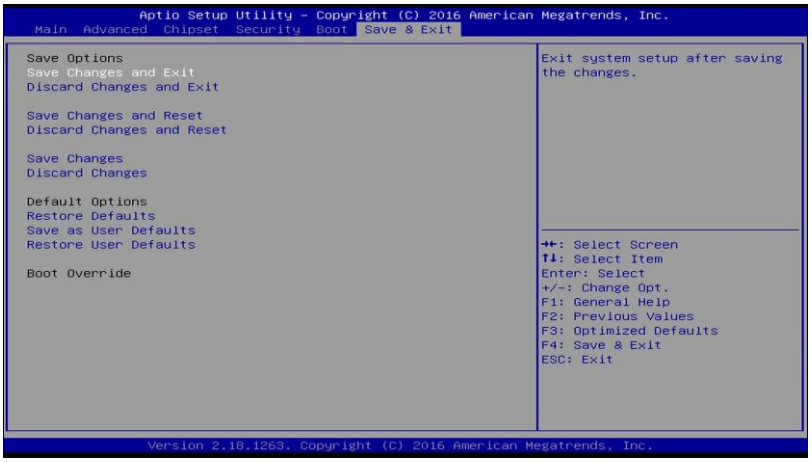
BIOS Setting	Description
Setup Administrator Password	Sets an administrator password for the setup utility.
User Password	Sets a user password.

4.7 Boot Settings



BIOS Setting	Description
Setup Prompt Timeout	Number of seconds to wait for setup activation key. 65535 (0xFFFF) means indefinite waiting.
Bootup NumLock State	Selects the keyboard NumLock state.
Quiet Boot	Enables / Disables Quiet Boot option.
Fast Boot	Enables / Disables boot with initialization of a minimal set of devices required to launch the active boot option. Has no effect for BBS boot options.
Boot mode select	Selects a Boot mode, Legacy / UEFI / Dual.
Boot Option Priorities	Sets the system boot order priorities for hard disk, CD/DVD, USB, Network.

4.8 Save & Exit Settings



BIOS Setting	Description
Save Changes and Exit	Exits system setup after saving the changes.
Discard Changes and Exit	Exits system setup without saving any changes.
Save Changes and Reset	Resets the system after saving the changes.
Discard Changes and Reset	Resets system setup without saving any changes.
Save Changes	Saves changes done so far to any of the setup options.
Discard Changes	Discards changes done so far to any of the setup options.
Restore Defaults	Restores / Loads defaults values for all the setup options.
Save as User Defaults	Saves the changes done so far as User Defaults.
Restore User Defaults	Restores the user defaults to all the setup options.