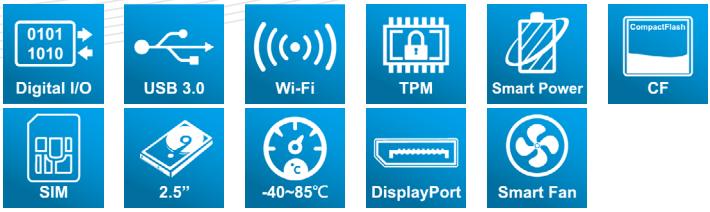
ANR-C246E1

1U Rackmount Network Platform

- *Intel® Xeon® E-2100 family (C246 Chipset)*
  Intel® Core™ Celeron®
- *Intel® C426*



User Manual

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

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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: Dec. 21, 2021

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. Product Specifications

ANR-C246E1 rackmount network appliances provides flexible network solutions with the power of the 8th Generation Intel Core and Xeon processors, formerly Coffee Lake. With a range of processors to choose from, from the i3 up to Xeon E-2 processors, this network appliance is built for UTM, SD-WAN, web monitoring, load balancing, and Network Virtualization.

The system offers unmatched flexibility in their class, and are designed to be easy to use for small to mid-range network needs.

In addition, it is a user friendly and budget friendly solution for small to mid-level network solutions. With a shorter chassis, it can be deployed almost anywhere without need of a dedicated rack, perfect for small businesses or remote offices.

1.1. Specifications

(Specifications are subject to change without notice.)

Platform

Form Factor	• 1U Rackmount Network Platform
Processor	• Intel® Xeon® E-2100 family (C246 Chipset) • Intel® Core™/ Celeron®
Chipset	• Intel® C246
System Memory	• 2x DDR4 SO DIMM Up to 32GB • DDR4 SO DIMM 260-pin DIMM x 2

Network

Ethernet	• Intel® i211 Gigabit Ethernet x 8
Bypass	• 2 Pairs
NIM Slot	• 1 (Optional)

Display

Graphic Controller	• Intel® UHD Graphics 630

Storage

HDDs	• Internal 2.5” HDD bay x 2
CF/CFast/mSATA	• mSATA

Expansion / Internal Interface

PCIe slot	• NIM Slot x 1 (Optional)
Mini-PCIe slot	• Mini-Card x 1 (PCIe[x1]+mSATA)
Keyboard and Mouse	• N/A
Universal Serial Bus	• USB 3.0 x 2

Miscellaneous

RTC	• Internal RTC
Watchdog Timer	• 1~255 steps by software programmable
Software Button	• GPIO Programmable push button x 1
GPIO	• 4 bits input, 4bits output
FAN	• 2
Color	• Black

Environmental Parameters and Dimension

Power Requirement	• 220W ATX PSU
Operation Temp.	• 32°F ~ 104°F (0°C ~ 40°C)
Storage Temp.	• -4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	• 10%~80% relative humidity, non-condensing
Storage Humidity	• 10%~80% @40°C; non-condensing
Vibration	• 0.5 g rms/ 5 ~ 500Hz / operation (2.5” Hard Disk Drive) • 1.5 g rms/ 5 ~ 500Hz / non operation
Chassis Dimension	• 16.93” x 7.87” x 1.73” (430mm x 200mm x 44mm) (W x D x H)

I/O Interface

Front Panel	• Power LED x 1 • Status LED x 1 • HDD Active LED x 1 • USB 3.0 Ports x 2 • RJ-45 Console x 1
Rear Panel	• AC Power Input x 1 • Power Switch x 1 • Rear Expansion Slot x 1 (Optional)

1.2. Package Contents

Check if the following items are included in the package.

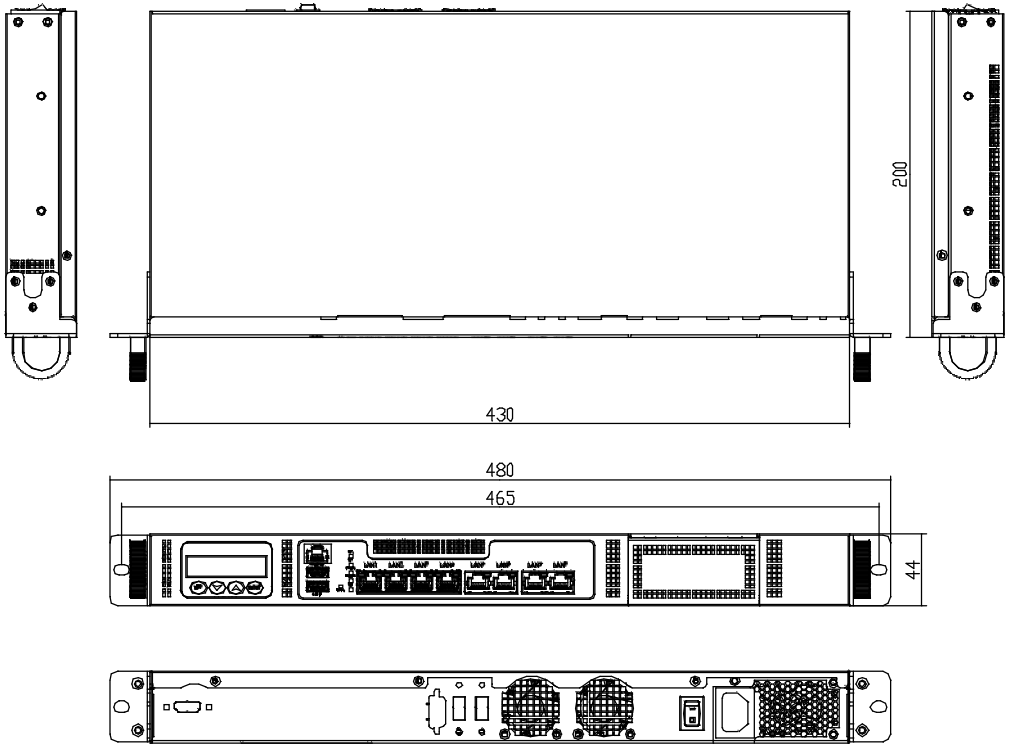
	Item	Q'ty	Remark
☐	ANR-C246E1 System	1	
☐	SATA Cable	2	
☐	SATA Power Cable	2	
☐	Console Cable	1	
☐	Ear Bracket Kit	1	
☐	CPU Heatsink	1	

2. Hardware Information

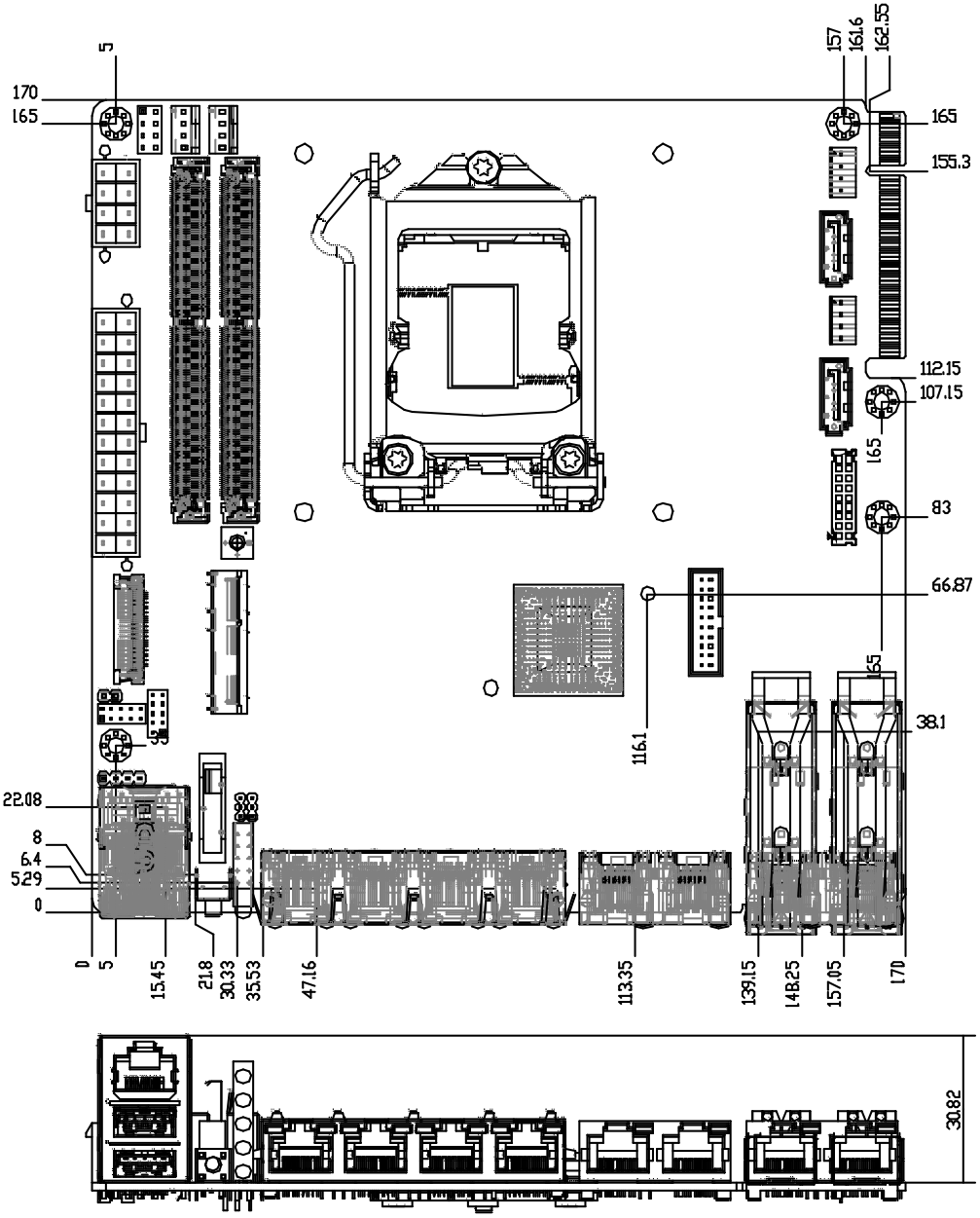
2.1. Dimensions

(Unit: mm)

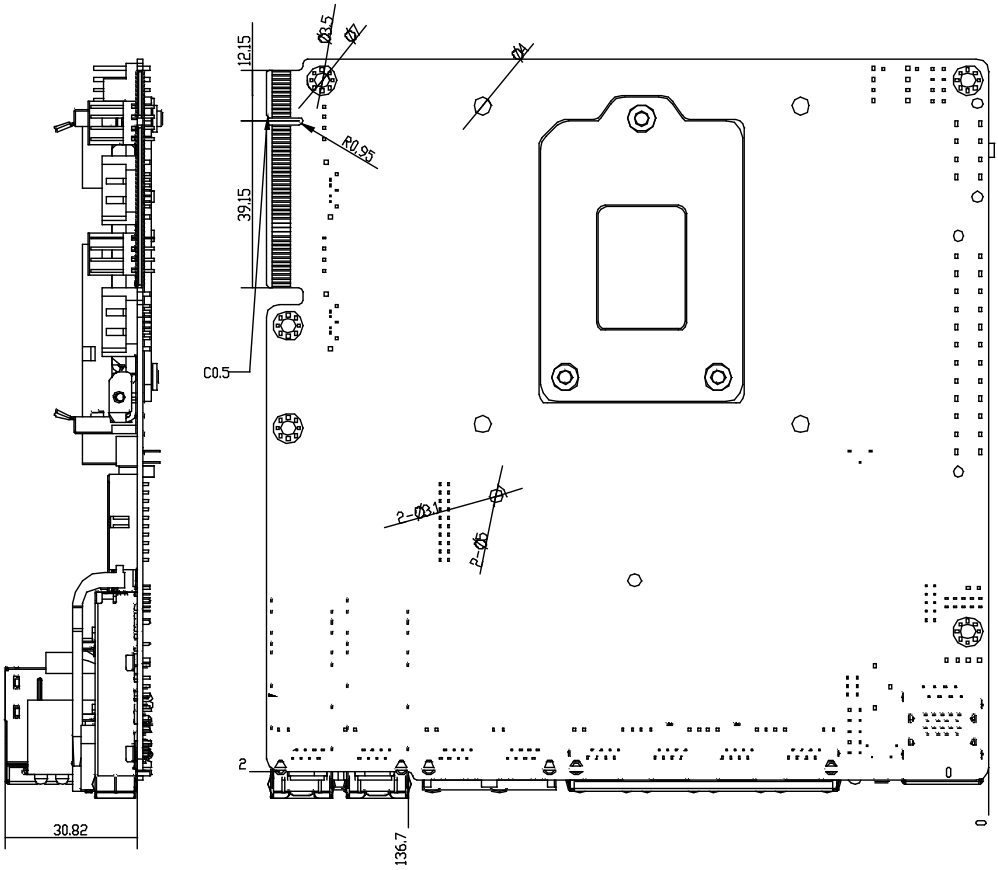
System:



Component Side:

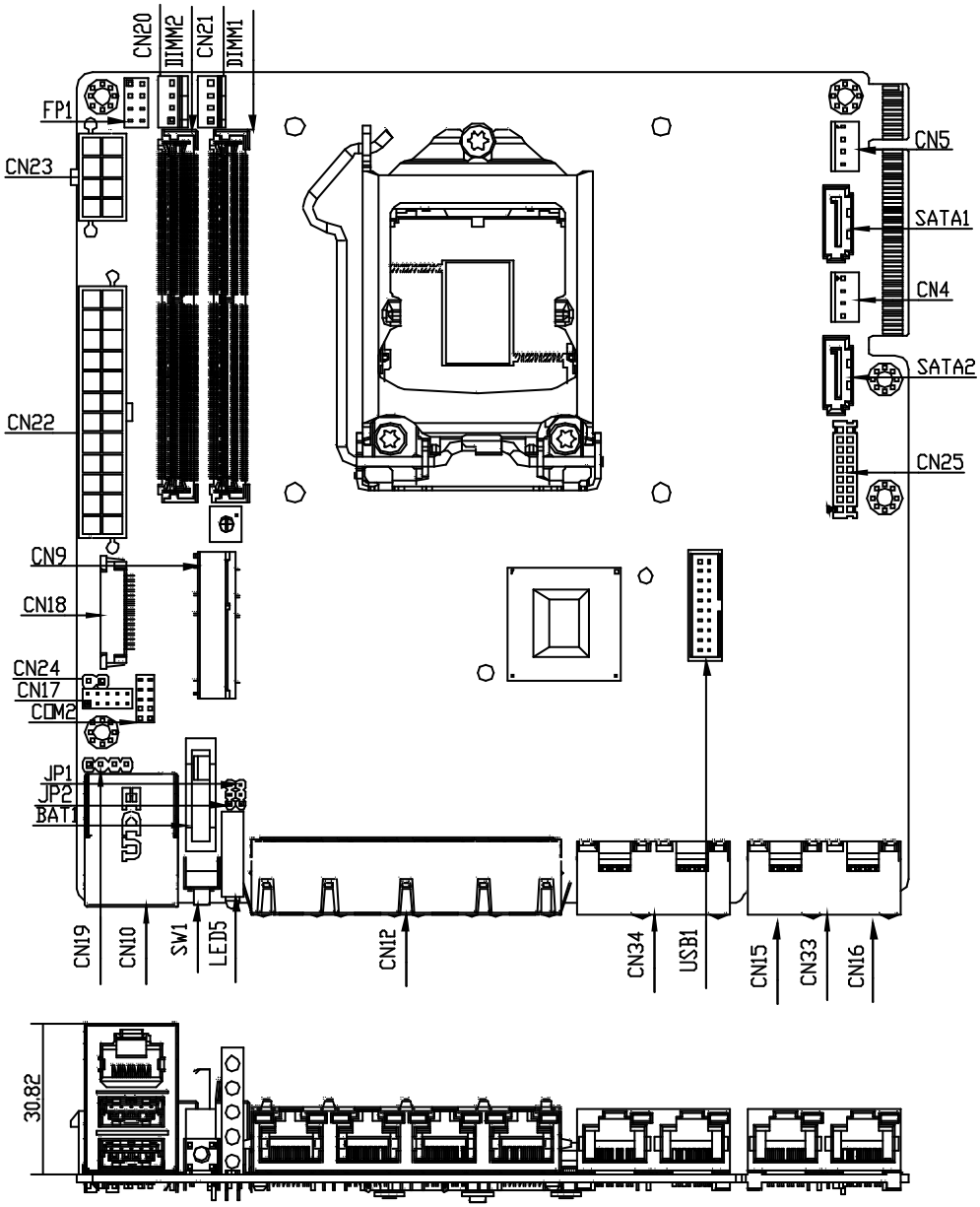


Solder Side:

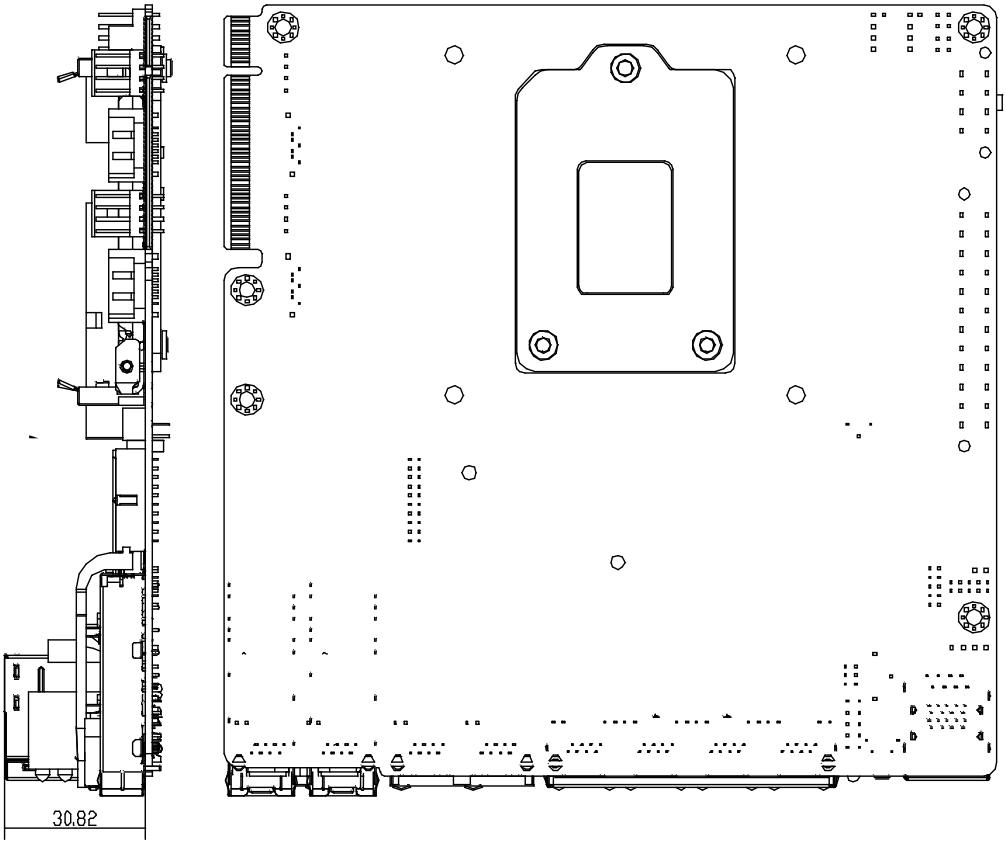


2.2. Jumpers and Connectors

Component Side:



Solder Side:



2.3. List of Jumpers

The ANR-C246E1 system board is configured with a number of jumpers which can be configured for your application. This section details those jumpers and their settings.

Label	Function
JP1	RTC Reset
JP2	Auto Power Button

2.3.1. RTC Reset (JP1)

Normal (Default)	1-2
Clear CMOS	2-3

2.3.2. Auto Power Button (JP2)

Don't use Auto PWRBTN (Default)	1-2
Use Auto PWRBTN	2-3

2.4. List of Connectors

The ANR-C246E1 system board is configured with a number of connectors which can be used for configuring your system and connecting with external modules. This section details those connectors and settings.

Label	Function
CN4 & CN5	HDD Power Connector
CN9	mSATA SOCKET
CN17	Digital I/O
CN18	LCM Connector
CN19	Key PAD Connector
CN20	SYS_FAN1
CN21	SYS_FAN2
CN22	24-Pin ATX Power Connector
CN23	8-Pin 12V Power Connector
CN25	HDMI Connector
COM2	COM Port
FP1	Front Panel Pin Header

SATA1 & SATA2	SATA Port Connector
USB1	USB3.0 Port

2.4.1. HDD Power Connector (CN4 & CN5)

Pin	Signal	Signal Type
1	+12V	PWR
2	GND	GND
3	GND	GND
4	+5V	PWR

2.4.2. Digital I/O (CN17)

Pin	Signal	Signal Type
1	DIO0	Input / Output
2	DIO1	Input / Output
3	DIO2	Input / Output
4	DIO3	Input / Output
5	DIO4	Input / Output
6	DIO5	Input / Output
7	DIO6	Input / Output
8	DIO7	Input / Output
9	+3.3V	PWR
10	GND	GND

2.4.3. LCM Connector (CN18)

Pin	Signal	Signal Type
1	LCMGND	GND
2	LCMVCC	PWR
3	VEE	PWR
4	SLIN#	Output
5	INIT#	Output
6	AFD#	Output
7	DATA0	Input / Output
8	DATA1	Input / Output
9	DATA2	Input / Output

10	DATA3	Input / Output
11	DATA4	Input / Output
12	DATA5	Input / Output
13	DATA6	Input / Output
14	DATA7	Input / Output
15	+5V	PWR
16	LCD#	Output

2.4.4. Key PAD Connector (CN19)

Pin	Signal	Signal Type
1	KEY PAD Down	Input
2	KEY PAD Up	Input
3	KEY PAD Right	Input
4	KEY PAD Left	Input

2.4.5. COM Port (COM2)

RS-232

Pin	Signal	Signal Type
1	DCD	Input
2	RXD	Input
3	TXD	Output
4	DTR	Output
5	GND	GND
6	DSR	Input
7	RTS	Output
8	CTS	Input
9	RI	Input
10	N.C.	

2.4.6. Front Panel Pin Header (FP1)

Pin	Signal	Signal Type
1	Power On Button(+)	Input
2	Power On Button(-)	GND

3	Reset Switch (+)	Input
4	Reset Switch (-)	GND
5	Power LED(+)	POWER
6	Power LED(-)	GND
7	HDD LED (+	Output
8	HDD LED (-)	Output

2.4.7. USB 3.0 Port (USB1)

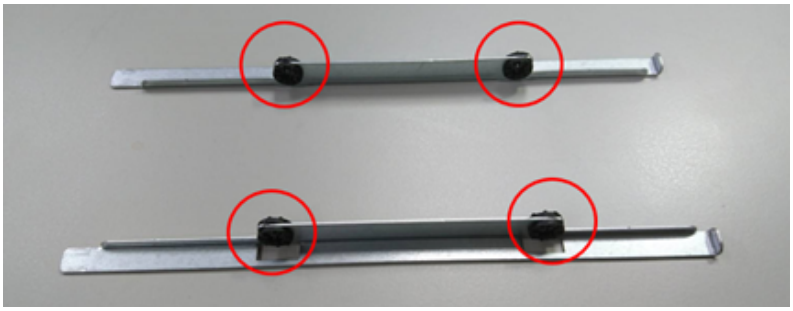
Pin	Signal	Signal Type
1	+5V_USB	PWR
2	USB3_RX1_DN	DIFF
3	USB3_RX1_DP	DIFF
4	GND	GND
5	USB3_TX1_DN	DIFF
6	USB3_TX1_DP	DIFF
7	GND	GND
8	USBP_0N	DIFF
9	USBP_0P	DIFF
10	NC	
11	USBP_1P	DIFF
12	USBP_1N	DIFF
13	GND	GND
14	USB3_TX2_DP	DIFF
15	USB3_TX2_DN	DIFF
16	GND	GND
17	USB3_RX2_DP	DIFF
18	USB3_RX2_DN	DIFF
19	+5V_USB	PWR

2.5. 2.5” Hard Drive Installation

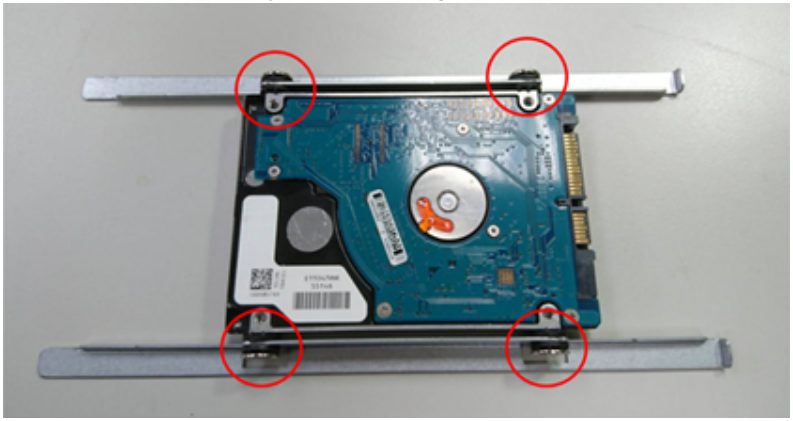
This section details the steps of how to install a 2.5” hard drive for the ANR-C246E1. This section includes steps for installing one or two 2.5” hard drives.

Step 1: Remove the screws securing the top cover, then remove the cover.

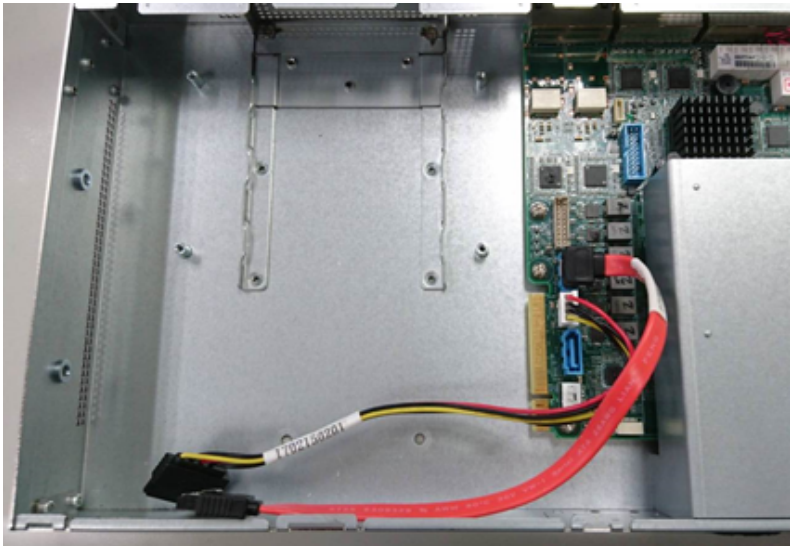
Step 2: Install the bracket cushions on the hard drive brackets as shown.



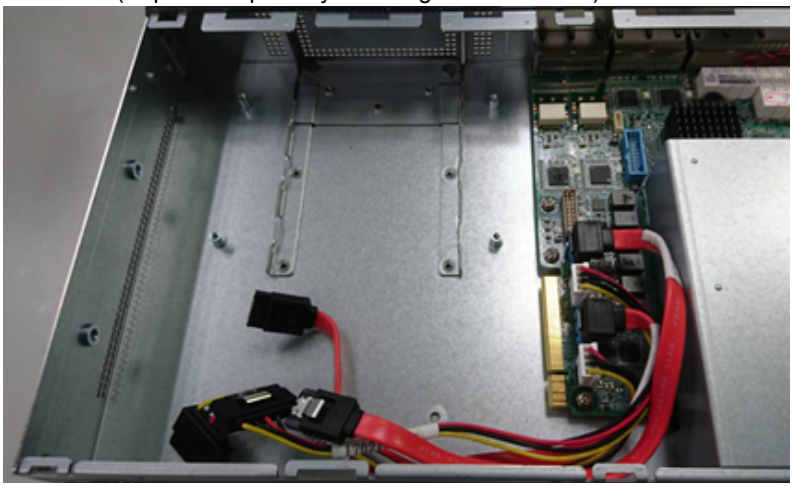
Step 3: Install brackets onto hard drive with screws. Repeat Steps 2 & 3 with the second set of brackets if you are installing two hard drives.



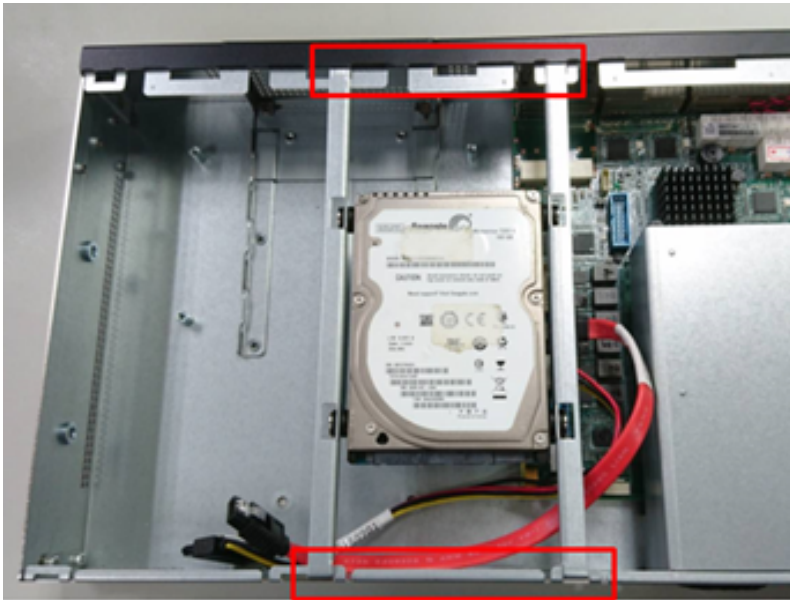
Step 4: Attach SATA and power cables to system board as shown for the first hard drive.



Step 5: Attach SATA and power cables to system board as shown for the second hard drive (skip this step if only installing one hard drive).

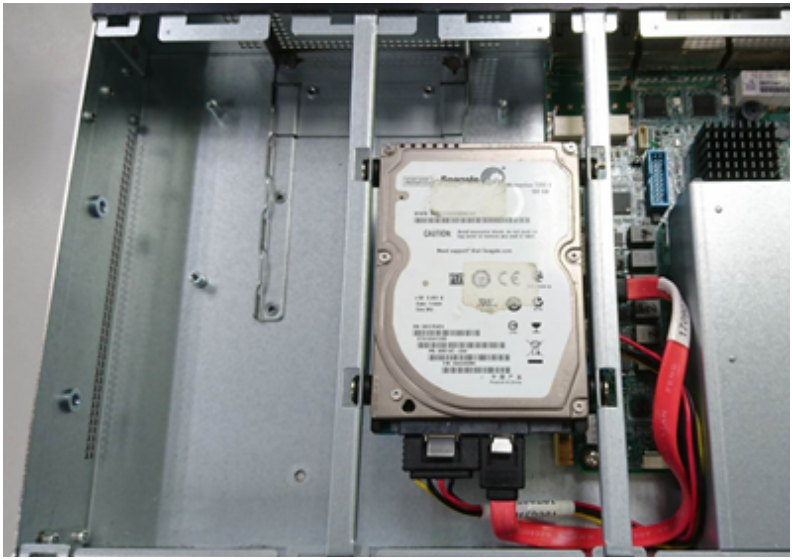


Step 6: Place first hard drive assembly onto installation brackets as shown.

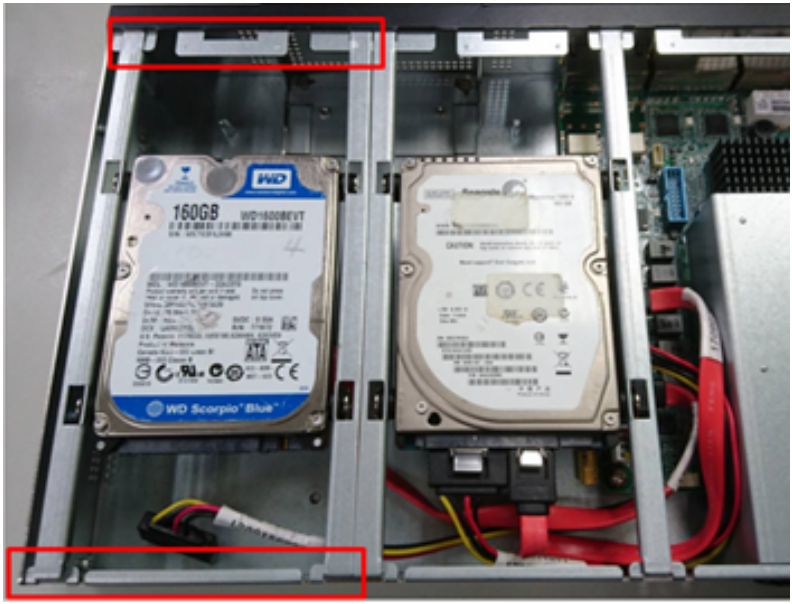


Note: Make sure that SATA and power cables are under the hard drive.

Step 7: Connect SATA and power cable to first hard drive as shown.

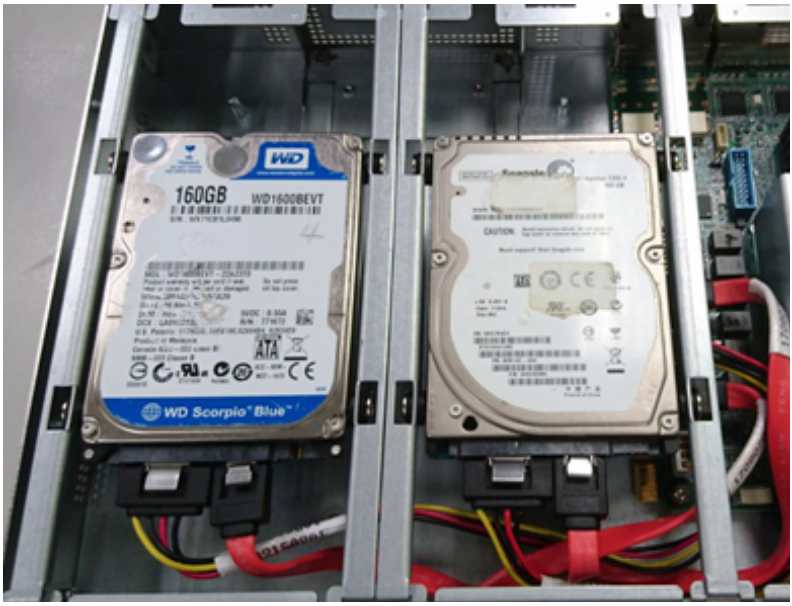


Step 8: Place the second hard drive onto installation brackets as shown.



Note: Make sure that SATA and power cables are under the hard drive.

Step 9: Connect SATA and power cable to the second hard drive as shown.

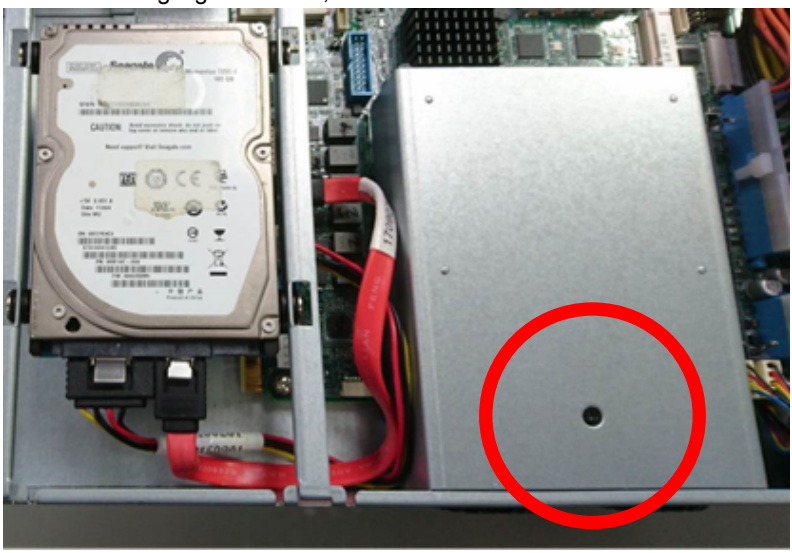


2.6. CPU and Heat Sink Installation

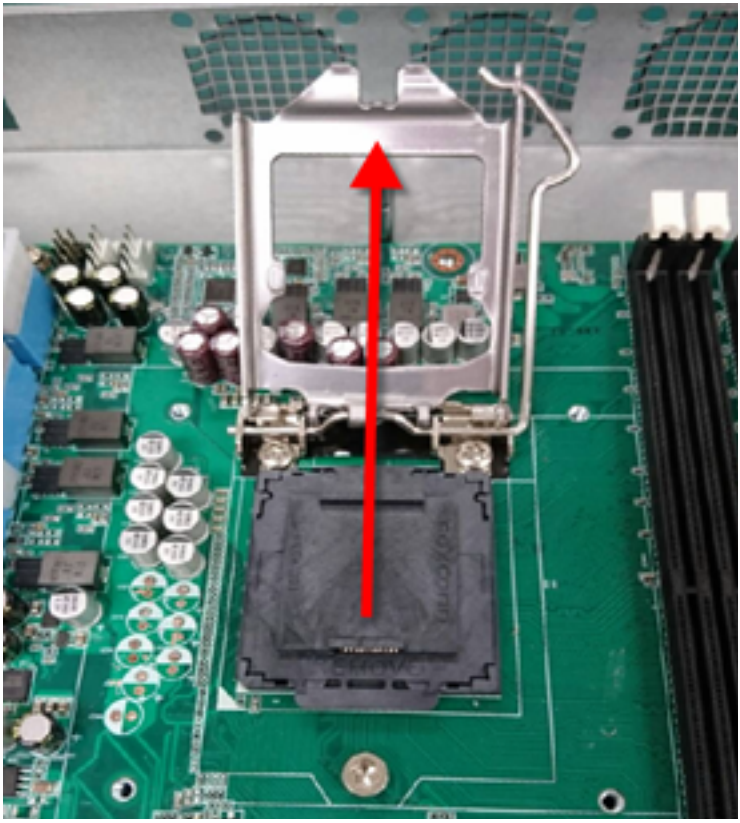
This section details the steps of how to install the CPU and heat sink for the ANR-C246E1.

Step 1: Remove the screws securing the top cover, then remove the cover.

Step 2: Remove the highlighted screw, then remove the fan duct.

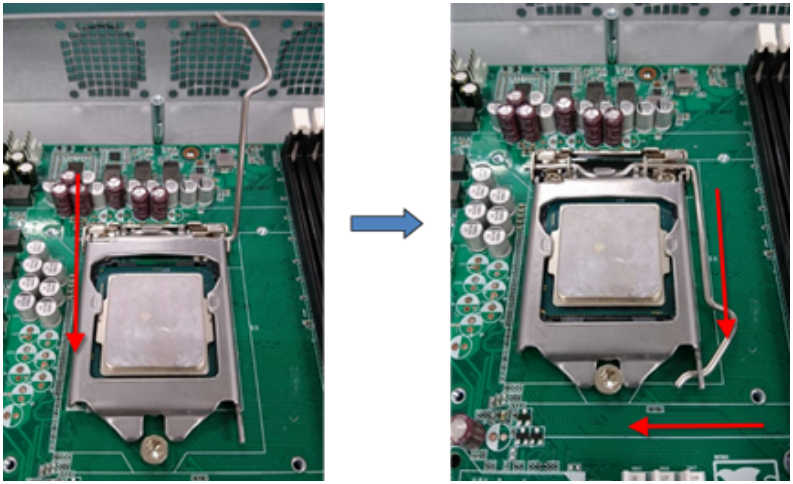


Step 3: Open the CPU bracket.

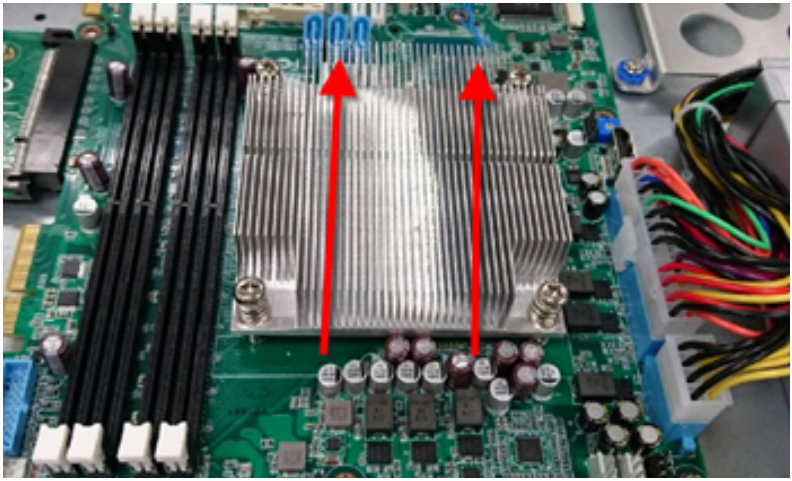


Step 4: Remove the pin cover and place the CPU into the socket. Use the notches to ensure proper alignment. Note: The CPU should fit into the socket easily. DO NOT force the CPU into the socket. Pushing on the CPU can cause damage to the CPU pins or socket.

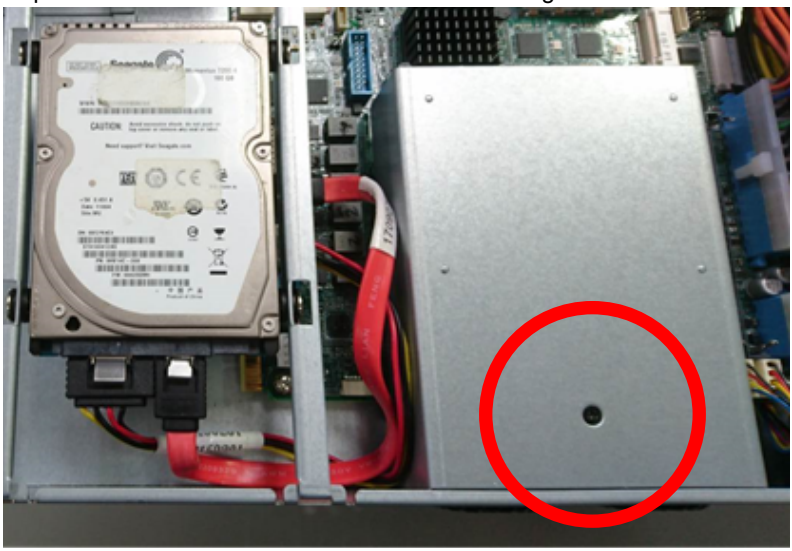
Step 5: Close the bracket and lock the bracket pole into position. Note: Please ensure you have applied thermal paste according to CPU manufacturer's guidelines before installing the heat sink.



Step 6: Place the heatsink onto the CPU and fasten the heatsink screws. Make sure the heatsink is aligned with the airflow of the fan.



Step 7: Replace the fan cover and secure with the fastening screw.



3. AMI BIOS Setup

3.1. System Test and Initialization

The system uses certain routines to perform testing and initialization during the boot up sequence. If an error, fatal or non-fatal, is encountered, the system will output a few short beeps or an error message. The board can usually continue the boot up sequence with non-fatal errors.

The system configuration verification routines check the current system configuration against the values stored in the CMOS memory. If they do not match, an error message will be output, and the BIOS setup program will need to be run to set the configuration information in memory.

There are three situations in which the CMOS settings will need to be set or changed:

- Starting the system for the first time
- The system hardware has been changed
- The CMOS memory has lost power and the configuration information is erased

The system's CMOS memory uses a backup battery for data retention. The battery must be replaced when it runs down.

3.2. AMI BIOS Setup

The AMI BIOS ROM has a pre-installed Setup program that allows users to modify basic system configurations, which is stored in the battery-backed CMOS RAM and BIOS NVRAM so that the information is retained when the power is turned off.

To enter BIOS Setup, press <Del> or <F2> immediately while your computer is powering up.

The function for each interface can be found below.

Main – Date and time can be set here. Press <Tab> to switch between date elements

Advanced – Enable/ Disable boot option for legacy network devices

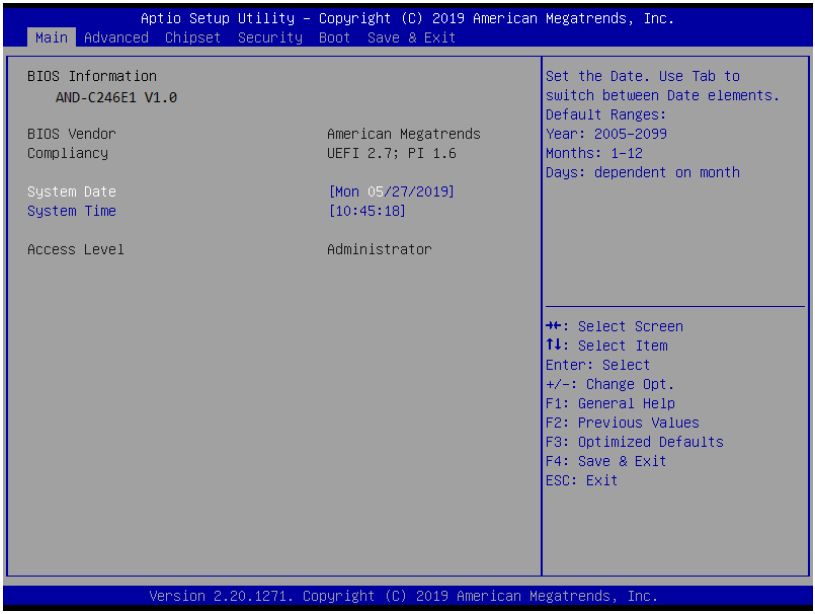
Chipset – Host bridge parameters.

Security – The setup administrator password can be set here

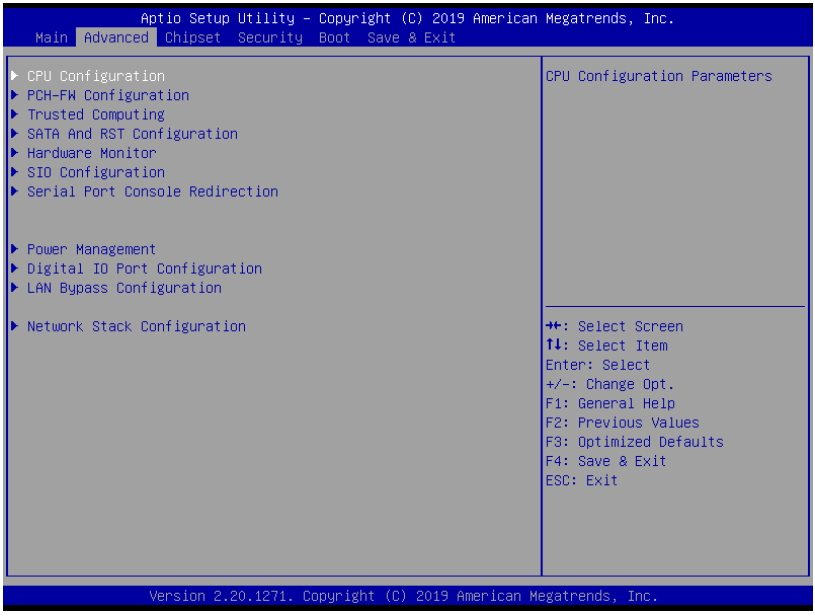
Boot – Enable/ Disable quiet Boot Option

Save & Exit – Save your changes and exit the program

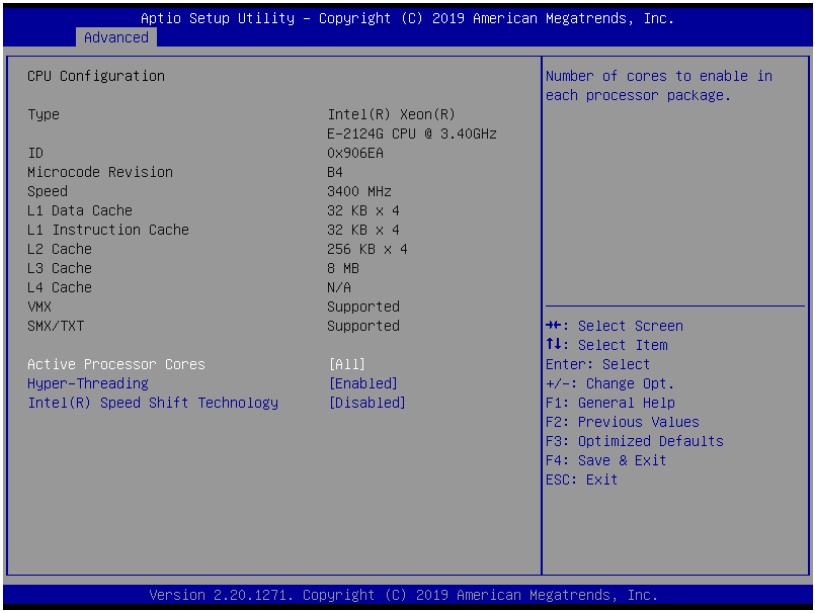
3.3. Setup Submenu: Main



3.4. Setup Submenu: Advanced

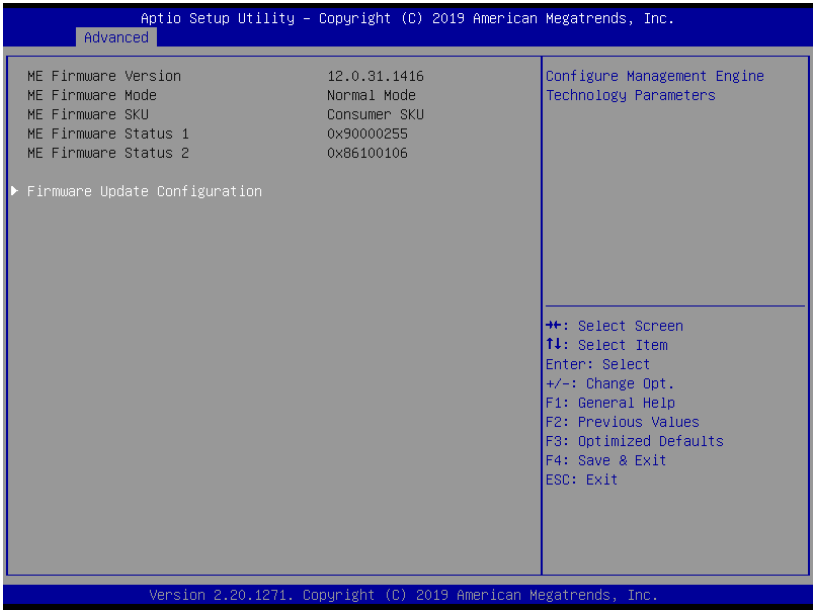


3.4.1. Advanced: CPU Configuration

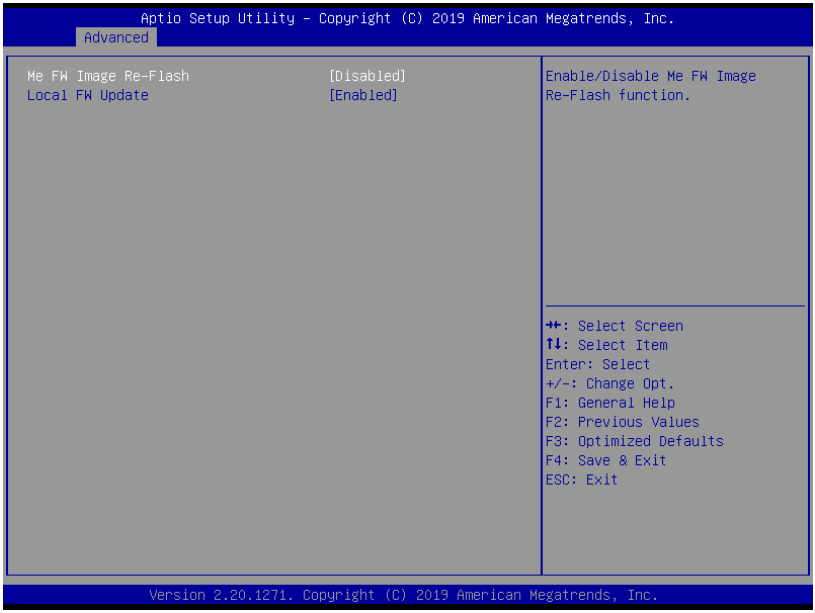


- **Active Processor Cores**
  Number of cores to enable in each processor package.
- **Hyper-Threading**
  Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology).
- **Intel® Speed Shift Technology**
  Enable/Disable Intel® Speed Shift Technology support. Enabling will expose the CPPC v2 interface to allow for hardware controlled P-states.

3.4.2. Advanced: PCH-FW Configuration

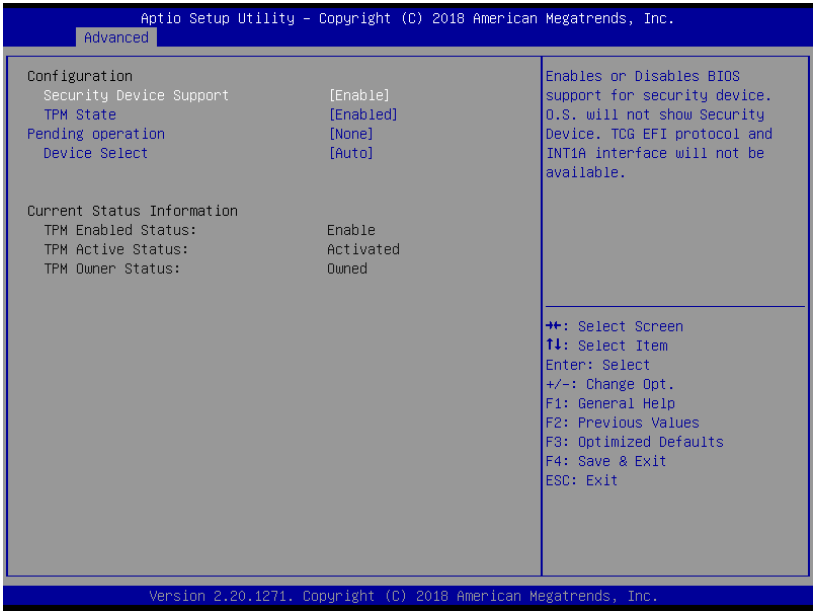


3.4.2.1. Firmware Update Configuration



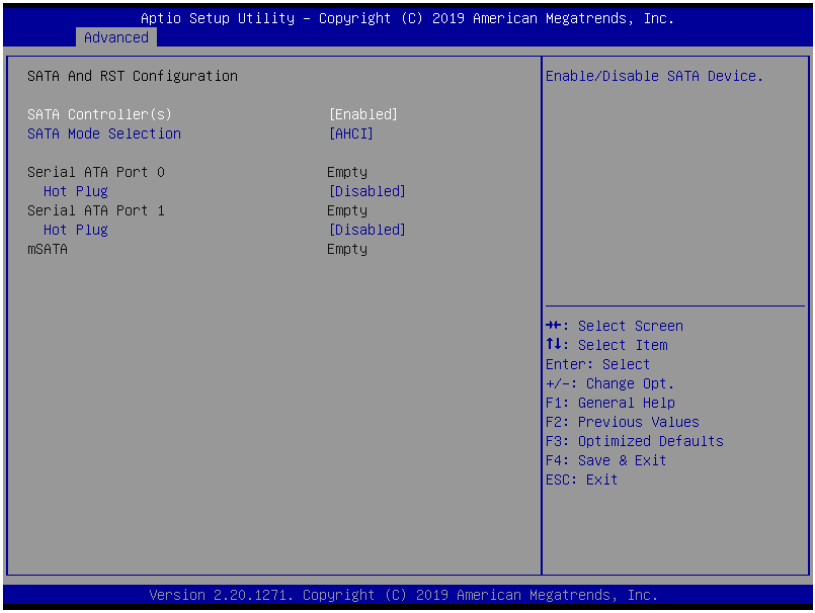
- **Me FW Image Re-Flash**
  Enable/Disable Me FW Image Re-Flash function.
- **Local FW Update**
  Options for Local FW Update function.

3.4.3. Advanced: Trusted Computing



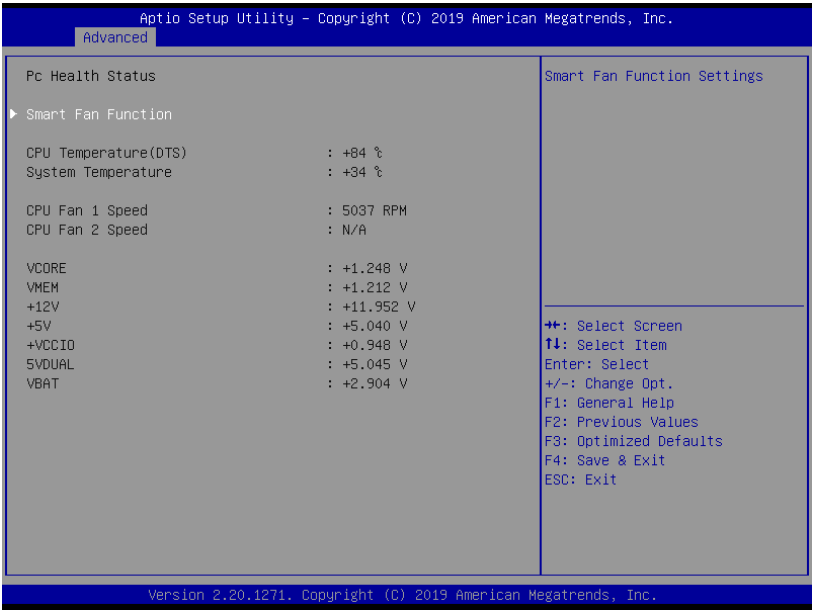
- **Security Device Support**
  Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.
- **TPM State**
  Enable/Disable Security Device. Note: Your Computer will reboot during restart in order to change State of the Device.
- **Pending operation**
  Schedule an Operation for the Security Device. **Note**: Your Computer will reboot during restart in order to change State of Security Device.
- **Device Select**
  TPM 1.2 will restrict support to TPM 1.2 devices, 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 devices will be enumerated

3.4.4. Advanced: SATA And RST Configuration

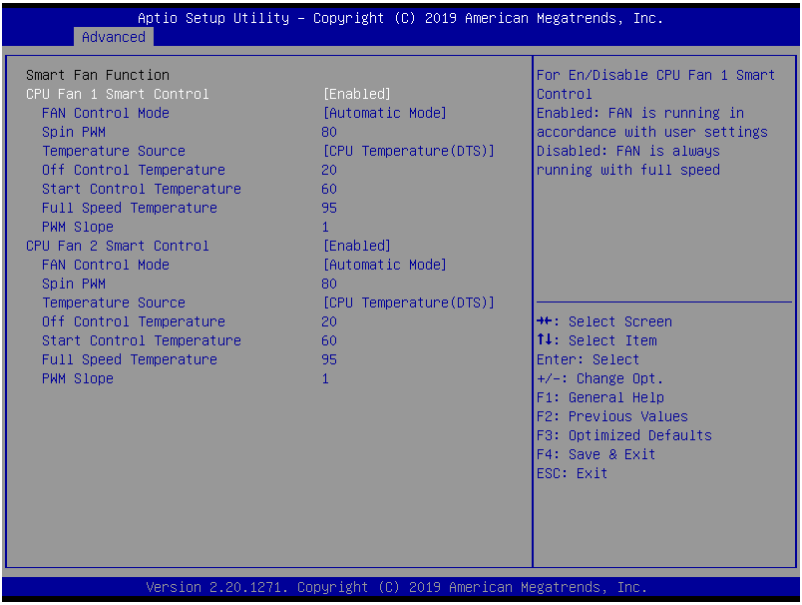


- **SATA Controller(s)**
  Enable/Disable SATA Device.
- **SATA Mode Selection**
  Determines how SATA controller(s) operate.
- **Hot Plug**
  Designates this port as Hot Pluggable.

3.4.5. Advanced: Hardware Monitor

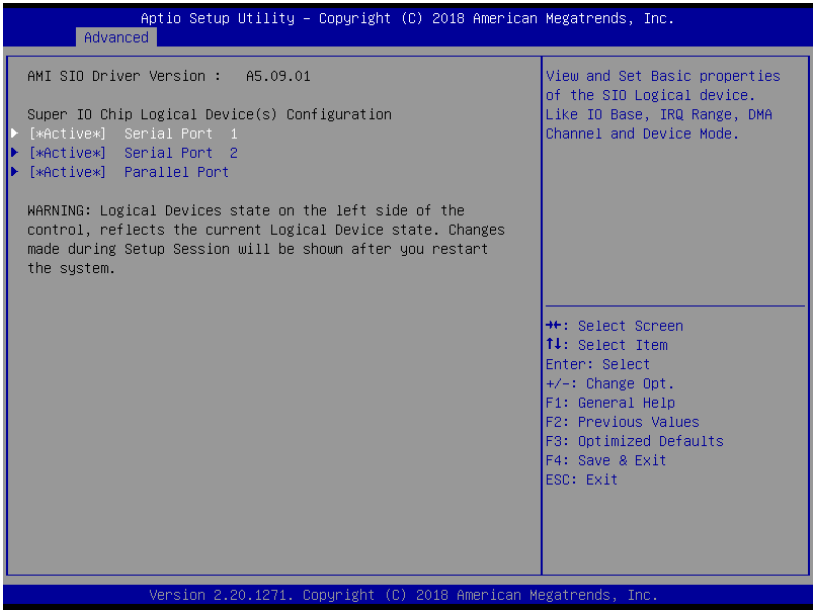


3.4.5.1. Smart Fan Function

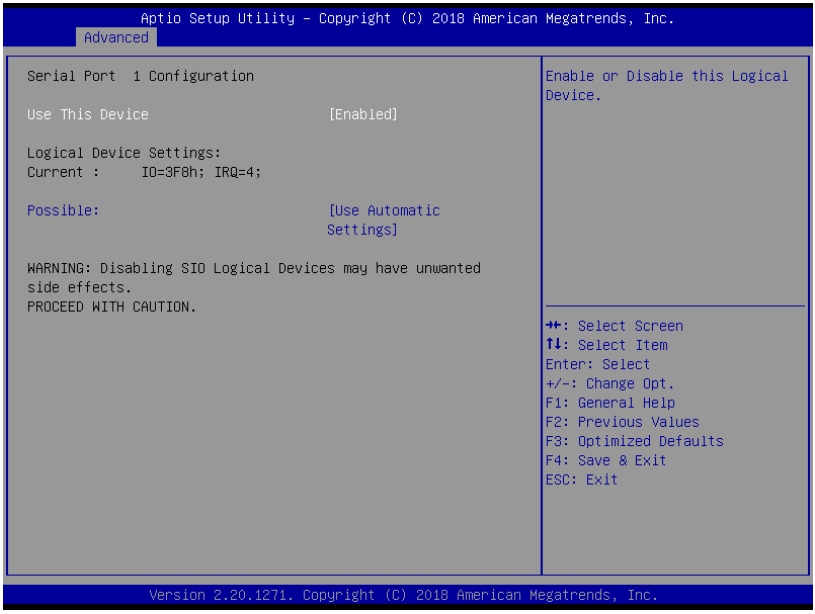


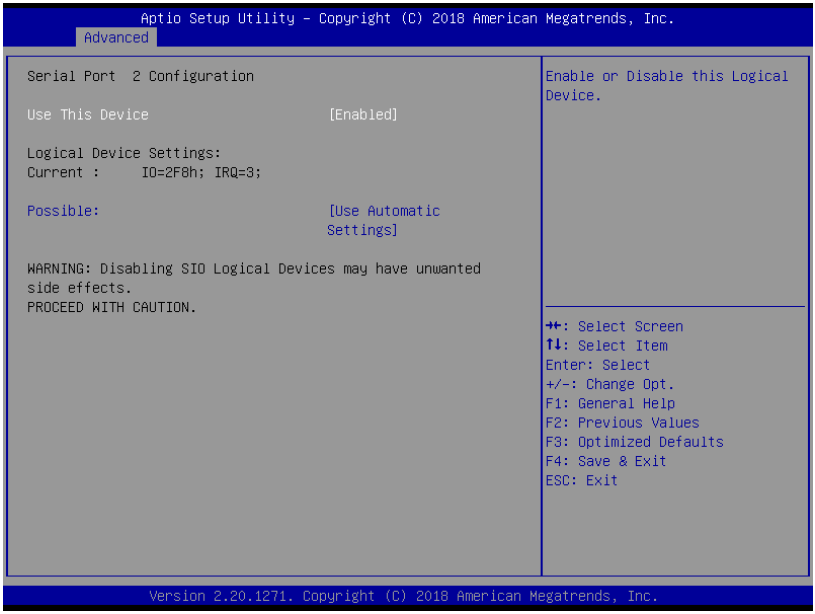
- **CPU Fan 1 / 2 Smart Control**
  Enable/Disable CPU Fan Smart Control.
  Enabled: FAN operates in accordance with user settings.
  Disabled: FAN always operates at full speed.
- **FAN Control Mode**
  Manual Mode: Depends on PWM Duty.
  Automatic Mode: FAN Speed depends on CPU Temperature.
- **Spin PWM**
  The PWM Duty of FAN Spin Range: [0 - 255]
- **Temperature Source**
  Reference Temperature Input Selection.
- **Off Control Temperature**
  Temperature Value for FAN Off.
  Note: Some fans have the minimum speed even if the PWM value is 0
- **Start Control Temperature**
  Temperature Value for FAN Start.
- **Full Speed Temperature**
  Temperature Value for FAN Full Speed.
- **PWM Slope**
  Slope PWM value/Degree C for FAN Speed Control.
  Range:[1-15]
- **PWM Duty**
  Manual Mode PWM Duty value.
  Range:[0 - 255]

3.4.6. Advanced: SIO Configuration



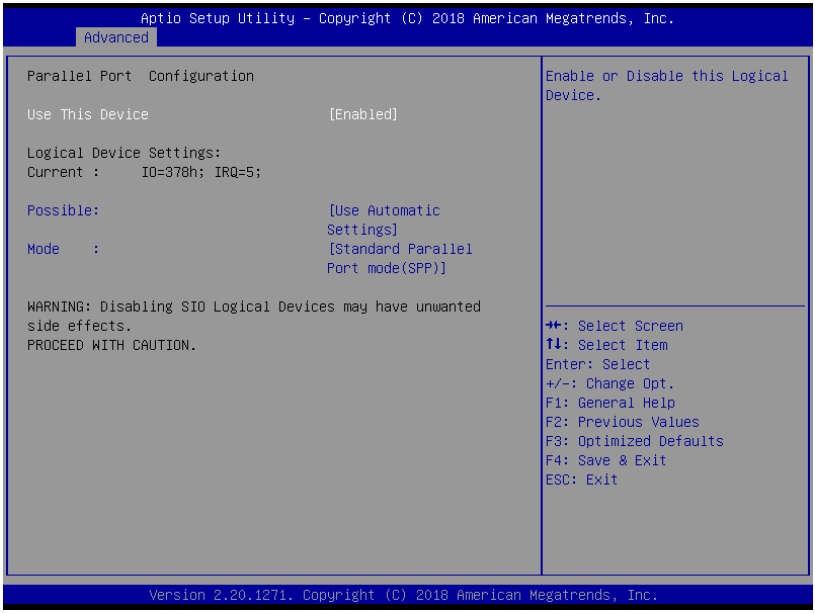
3.4.6.1. Serial Port Configuration





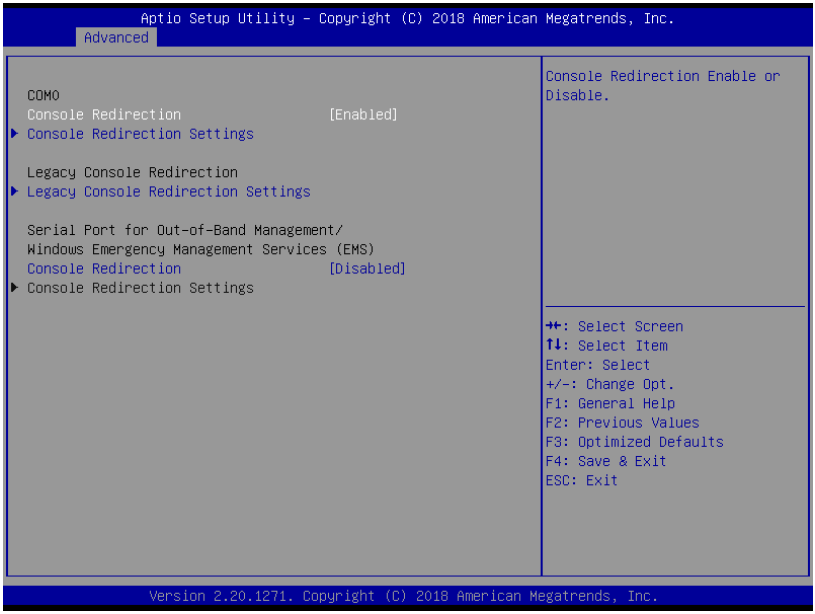
- **Use This Device**
  Enable/Disable this Logical Device
- **Possible**
  Allow user to change Device's Resource settings. New settings will be reflected on This Setup Page after System restarts.

3.4.6.2. Parallel Port Configuration



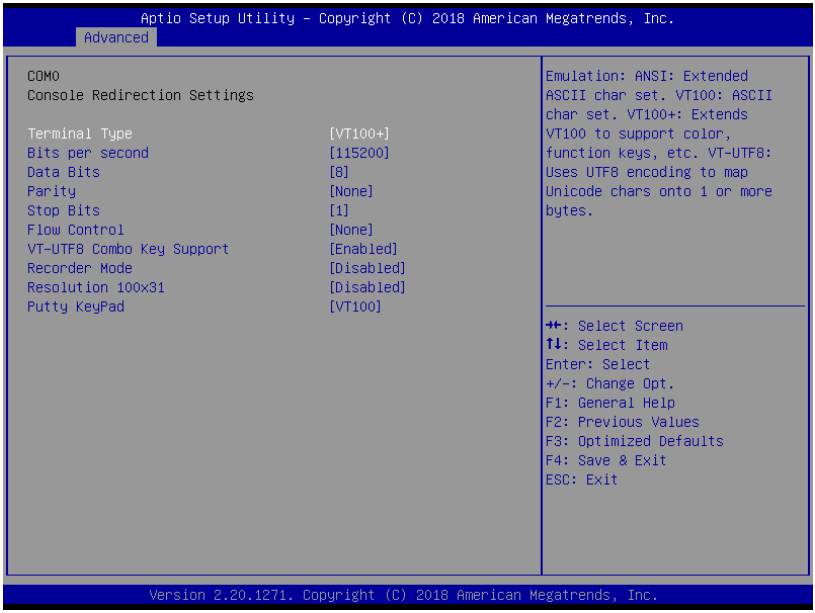
- **Use This Device**
  Enable/Disable this Logical Device
  Enable/Disable this Logical Device
  Enable/Disable this Logical Device
- **Mode**
  Change Parallel Port mode. Some of the Modes required a DMA resource. After Mode changing, Reset the System to reflect actual device settings.

3.4.7. Advanced: Serial Port Console Redirection



- **COM0 Console Redirection**
  Enable or Disable Console Redirection
- **Console Redirection**
  Console Redirection

3.4.7.1. COM0 Console Redirection



- **Terminal Type**
  Emulation:

  ANSI: Extended ASCII char set.

  VT100: ASCII char set.

  VT100+: Extends VT100 to support color, function keys, etc.

  VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.

- **Bits per second**
  Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.

- **Data Bits**
  Data Bits

- **Parity**
  A Parity bit can be sent with the data bits to detect some transmission errors.

  Even: parity bit is 0 if the number of 1's in the data bits is even.

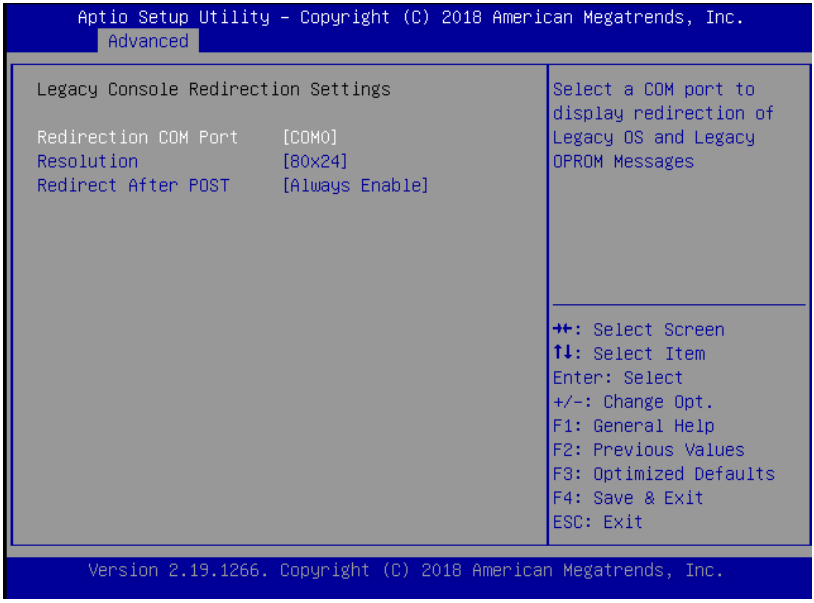
  Odd: parity bit is 0 if the number of 1's in the data bits is odd.

  Mark: parity bit is always 1.

  Space: parity bit is always 0. Mark and Space Parity do not allow for error detection.

- **Stop Bits**
  Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.
- **Flow control**
  Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.
- **VT-UTF8 Combo Key Support**
  Enable VT-UTF8 Combination Key Support for ANSI/VT100 terminals.
- **Recorder Mode**
  With this mode enabled only text will be sent. This is to capture Terminal data.
- **Resolution 100x31**
  Enables or disables extended terminal resolution.
- **Putty KeyPad**
  Select FunctionKey and KeyPad on Putty.

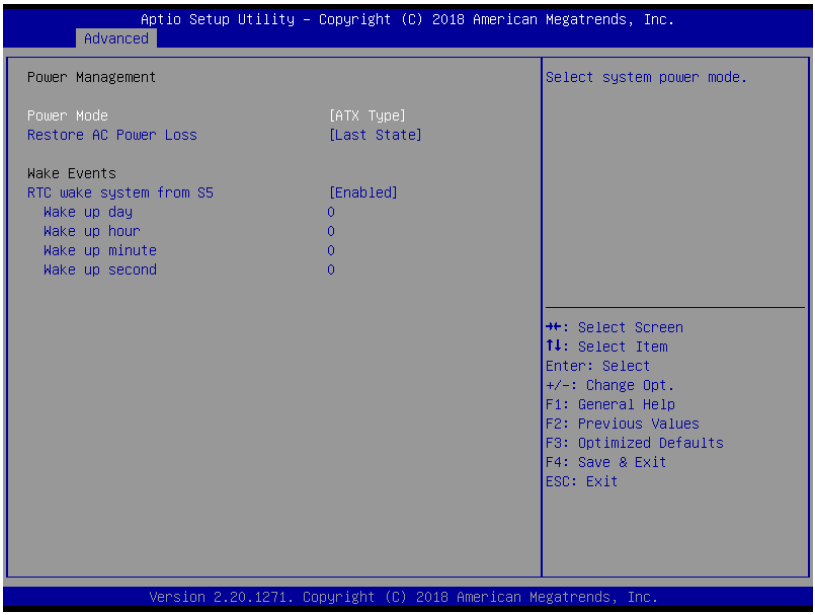
3.4.7.2. Legacy Console Redirection Settings



- **Redirection COM Port**
  Select a COM port to display redirection of Legacy OS and Legacy OPROM Messages.

- **Resolution**
  On Legacy OS, the Number of Rows and Columns supported redirection.
- **Redirection After POST**
  When BootLoader is selected, then Legacy Console Redirection is disabled before booting to legacy OS. When Always Enable is selected, then Legacy Console Redirection is enabled for legacy OS. Default setting for this option is set to Always Enable.

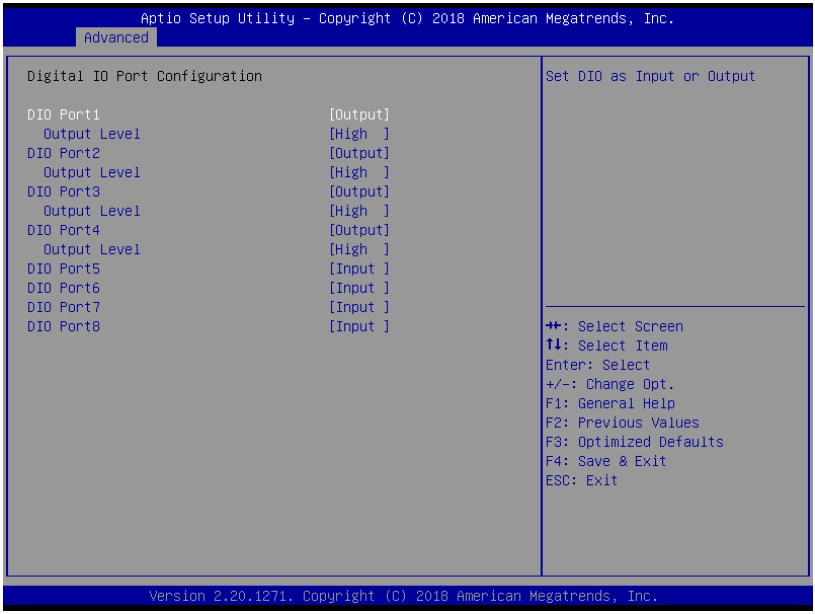
3.4.8. Advanced: Power Management



- **Power Mode**
  Select power supply mode.
- **Restore AC Power Loss**
  Select power state when power is re-applied after a power failure.
- **RTC wake system from S5**
  Fixed Time : System will wake on the hr::min::sec

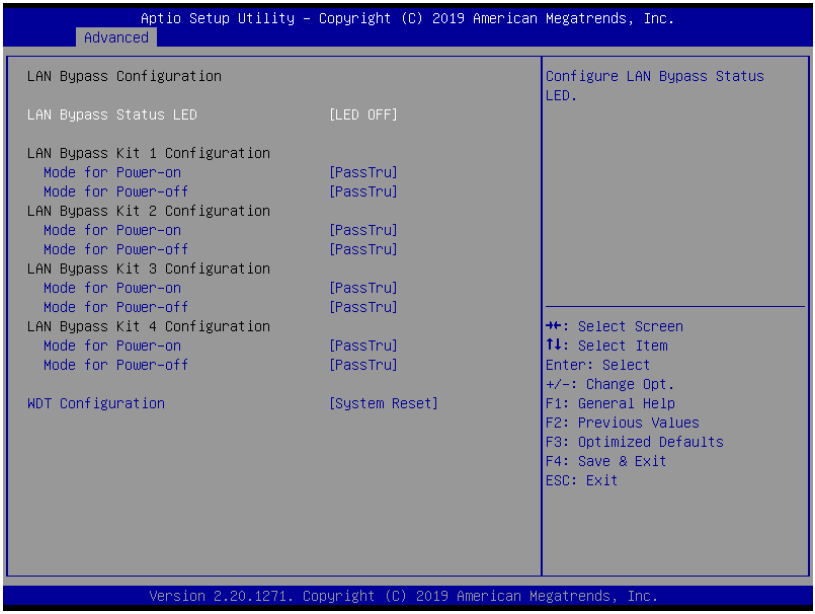
  Specified Dynamic Time: System will wake on the current time + Increase minutes(s).

3.4.9. Advanced: Digital IO Port Configuration



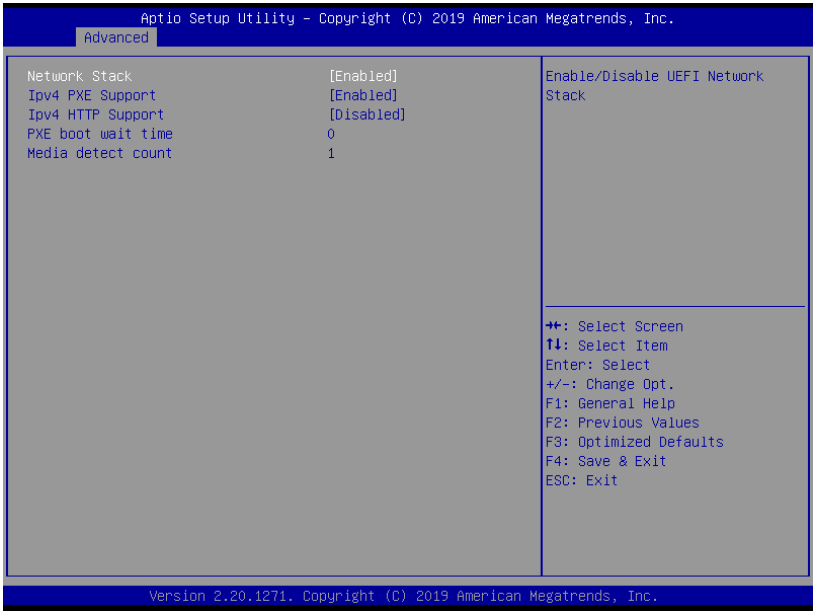
- **DIO Port1~4**
  Set DIO as Input or Output
- **Output Level**
  Set output level when DIO pin is output
- **DIO Port5~8**
  Set DIO as Input or Output

3.4.10. Advanced: LAN Bypass Configuration



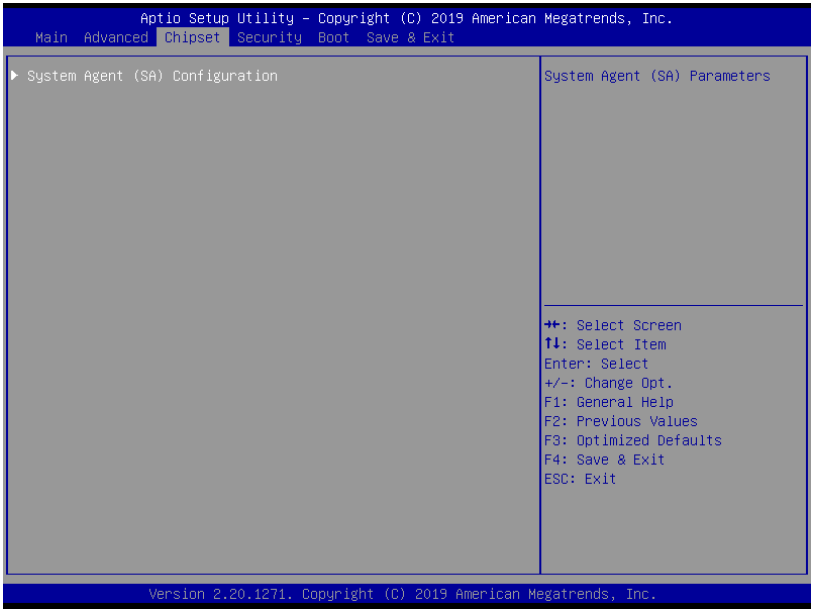
- **Configure LAN Bypass Status LED**
  LAN Bypass Status LED
- **Mode for Power-on**
  Configure LAN kit behavior when system in power-on state. (Bypass/Pass Through)
- **Mode for Power-off**
  Configure LAN kit behavior when system in power-off state. (Bypass/Pass Through)
- **WDT Configur**
  Configure LAN kit behavior when WDT is triggered. (Bypass/Pass Through)

3.4.11. Advanced: Network Stack Configuration

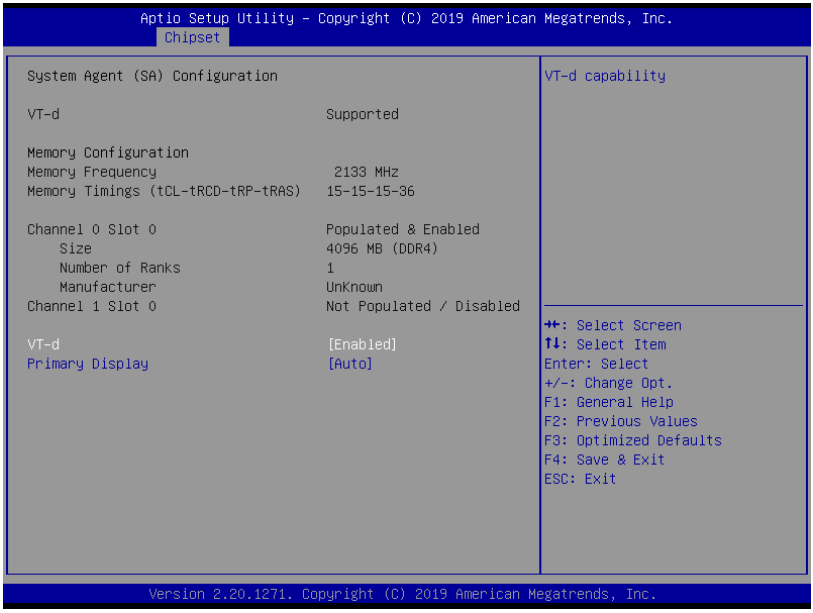


- **Network Stack**
  Enable/Disable UEFI Network Stack
- **Ipv4 PXE Support**
  Enable/Disable IPv4 PXE boot support. If disabled, IPv4 PXE boot support will not be available.
- **Ipv4 HTTP Support**
  Enable/Disable IPv4 HTTP boot support. If disabled, IPv4 HTTP boot support will not be available.
- **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. Setup submenu: Chipset

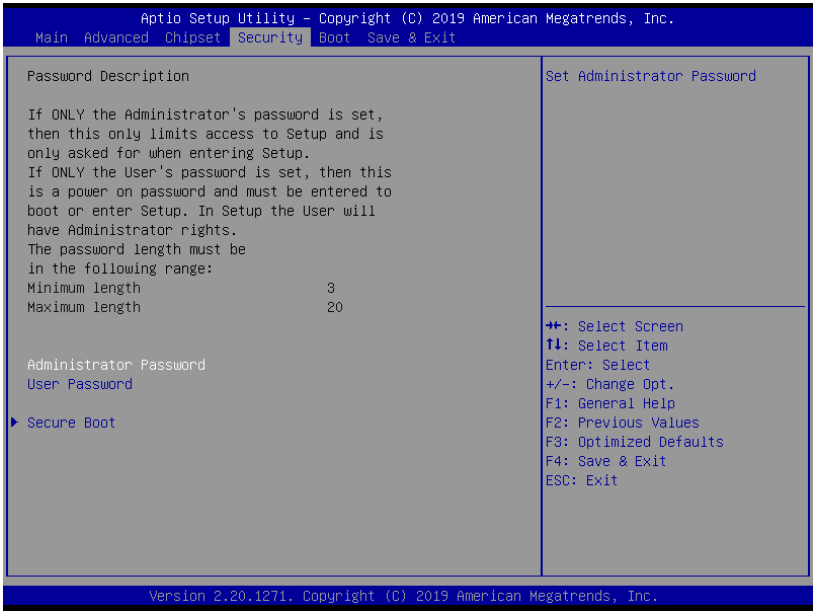


3.5.1. Chipset: System Agent (SA) Configuration



- **VT-d**
  VT-d capability.
- **Primary Display**
  Select which of IGFX/PEG/PCI Graphics device should be Primary Display Or select SG for Switchable Gfx.

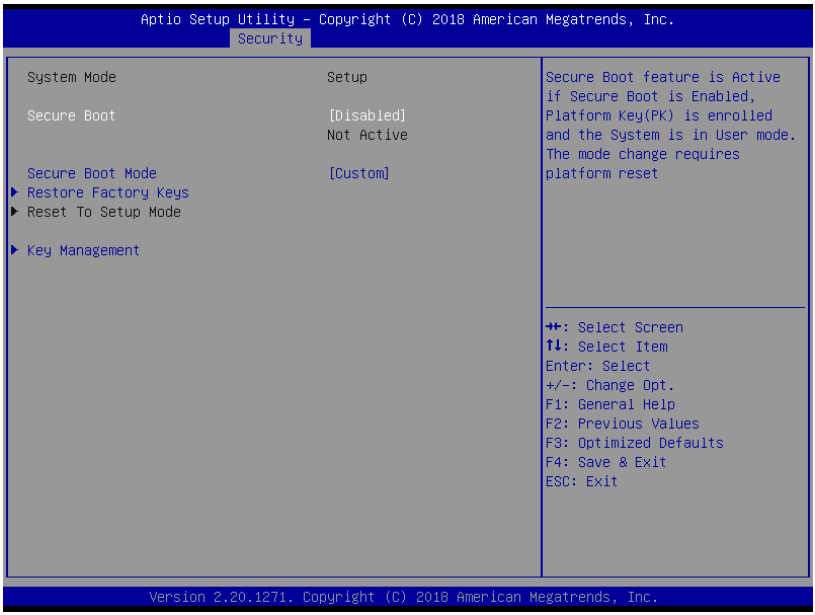
3.6. Setup submenu: Security



- **Change User/Administrator Password**
  You can set an Administrator Password or User Password. An Administrator Password must be set before you can set a User Password. The password will be required during boot up, or when the user enters the Setup utility. A User Password does not provide access to many of the features in the Setup utility.

  Select the password you wish to set, and press Enter. In the dialog box, enter your password (must be between 3 and 20 letters or numbers). Press Enter and retype your password to confirm. Press Enter again to set the password.
- **Removing the Password**
  Select the password you want to remove and enter the current password. At the next dialog box press Enter to disable password protection.

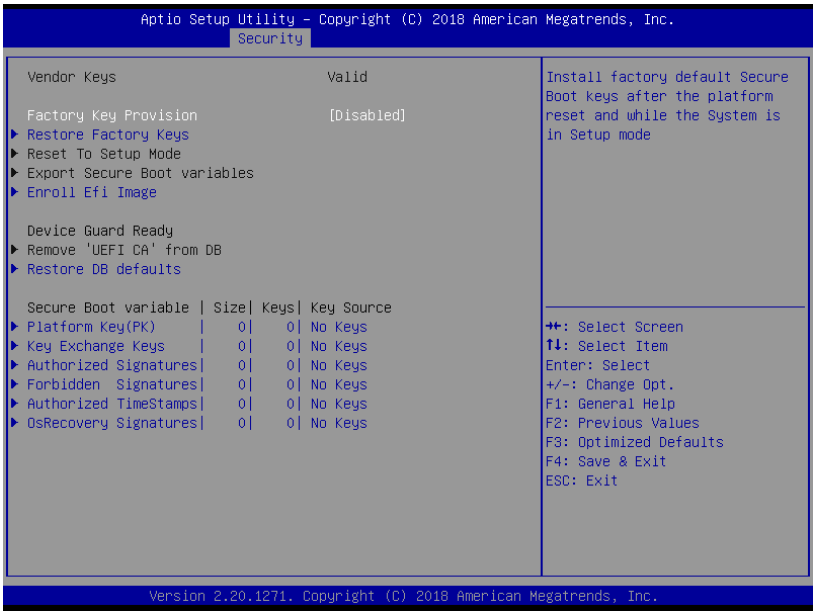
3.6.1. Security: Secure Boot



- **Secure Boot**
  Secure Boot feature is Active if Secure Boot is Enabled, Platform Key (PK) is enrolled, and the System is in User mode. The mode change requires platform reset.
- **Secure Boot Mode**
  In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication.
- **Restore Factory Keys**
  Force System to User Mode.

  Install factory default Secure Boot key databases.
- **Reset To Setup Mode**
  Delete all Secure Boot key databases from NVRAM.

3.6.1.1. Secure Boot: Key Management

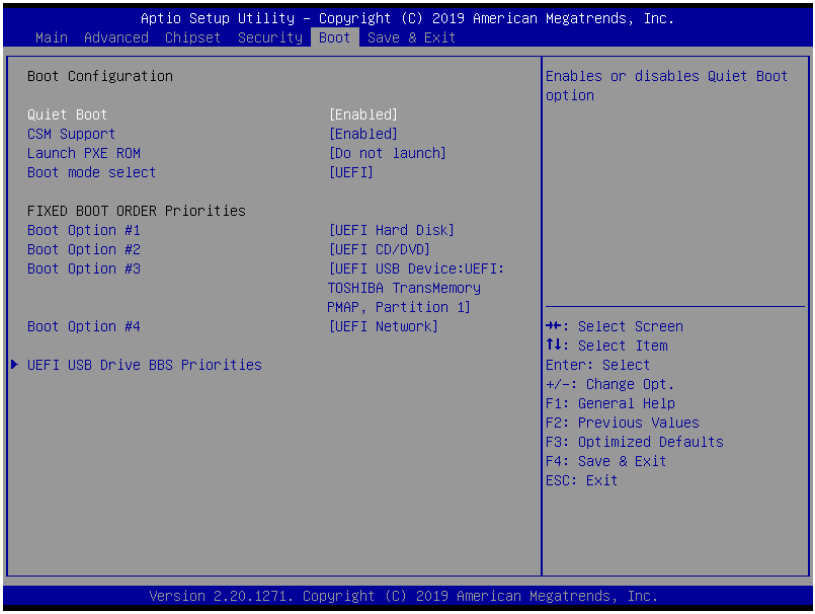


- **Factory Key Provision**
  Install factory default Secure Boot keys after the platform reset and while the System is in Setup mode.
- **Restore Factory Keys**
  Force System to User Mode.

  Install factory default Secure Boot key databases.
- **Reset To Setup Mode**
  Delete all Secure Boot key databases from NVRAM.
- **Export Secure Boot variables**
  Copy NVRAM content of Secure Boot variables to files in a root folder on a file system device.
- **Enroll Efi Image**
  Allow the image to run in Secure Boot mode.

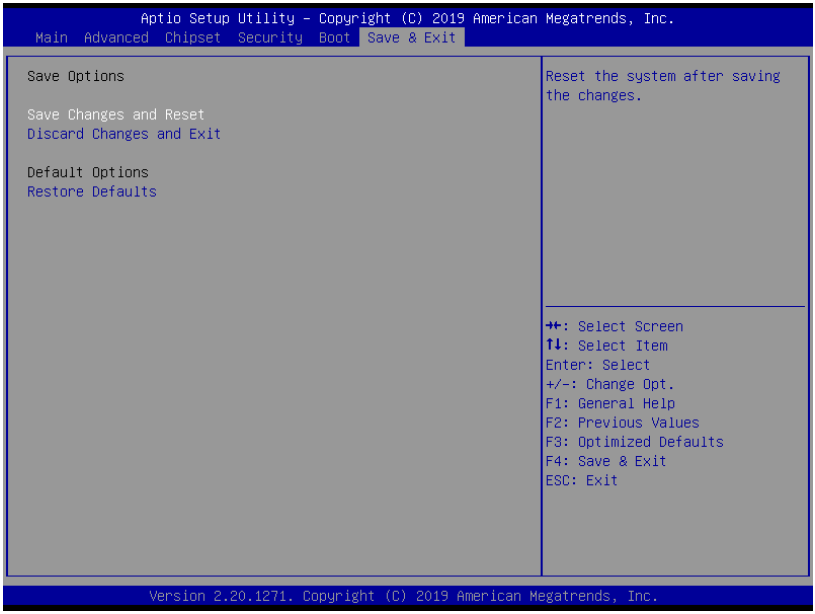
  Enroll SHA256 Hash certificate of a PE image into Authorized Signature Database (db)
- **Remove ‘UEFI CA’ from DB**
  Device Guard ready system must not list ‘Microsoft UEFI CA’ Certificate in Authorized Signature database (db).
- **Restore DB defaults**
  Restore DB variable to factory defaults.

3.7. Setup submenu: Boot



- **Quiet Boot**
  Enable / Disable Quiet Boot option.
- **CSM Support**
  Enable/Disable CSM Support.
- **Launch PXE ROM**
  Controls the execution of UEFI and Legacy Network OpROM
  Note: Network Stack should be enabled if select UEFI PXE boot.
- **Boot mode select**
  Select boot mode LEGACY/UEFI.

3.8. Setup submenu: Save & Exit

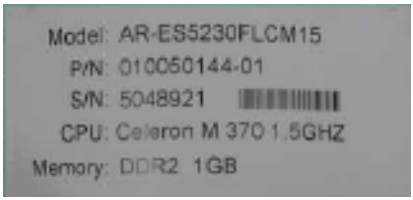


- **Boot Option Priorities**
  This feature allows the user to specify which devices are boot devices and the order of priority from which the systems boots from during startup.

4. 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.



(for reference only)

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- Your Company Name: _____
- Your Contact Info: _____ Phone Number: _____
- Your E-Mail Address: _____
- Your Company Address: _____

  _____
- Acrosser Model Name: _____
- 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:

Send the above information to one of the following Acrosser contacts:

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- Acrosser Authorized Sales Channels
- Acrosser Inquiry --- http://www.acrosser.com/inquiry.html
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