



ROC200-DL

Military Xeon D Fanless Server with Intel® Xeon®

D-1700 processor



User's Manual

Revision Date: Nov. 05. 2024

Safety Information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your local distributor.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter any technical problems with the product, contact your local distributor

Statement

- All rights reserved. No part of this publication may be reproduced in any form or by any means, without prior written permission from the publisher.
- All trademarks are the properties of the respective owners.
- All product specifications are subject to change without prior notice

ROC200-DL User's Manual

Revision Date: Nov. 05. 2024

Revision History

Revision	Date (yyyy/mm/dd)	Changes
Version 1.0	2024/11/05	Initial release

Packing list

- ▶ ROC200-DL Military Xeon D Fanless Server
- ▶ CD (Driver + Usermanual)

Ordering Information

	ROC200-DL-A20	ROC200-DL-35A	ROC200-DL-A45	ROC200-DL-50A	ROC200-DL-R	ROC200-DL-4S	ROC200-DL-A2015
CPU	Xeon-D-1732TE, 8C	Xeon D-1746TER, 10C	Xeon D-1746TER, 10C	Xeon D-1746TER, 10C	Xeon-D-1732TE, 8C	Xeon D-1746TER, 10C	Xeon D-1715TER, 4C
GPU	MXM A2000	MXM 3500Ada	MXM A4500	MXM 5000Ada	MXM A2000	MXM A3500Ada	MXM A2000
RAM	DDR4 up to 128GB SO-DIMM						DDR4 32GB SO-DIMM
Storage	1x M.2 2280 M-key, 2x SATA SSD				2x SATA (Option HW Raid 0/1)		SATAIII 512GB WT
PSU	9V~36V DC-IN						9V~36V DC-IN
I/O	4x 10GbE LAN						4x 10GbE LAN
	2x USB3.0 + 2x USB2.0						2x USB3.0 + 2x USB2.0
	2x DP ports						2x DP ports
	Power Switch + HDD/SSD LED						Power Switch + SSD LED
OS	Win10, Win server 2019, Win10 LTSC						Win10, Win server 2019, Win10 LTSC
Remark	NA						Test sample



If any of the above items is damaged or missing, please contact your local distributor.

Index

Safety Information	1
Revision History	2
Packing list	2
Ordering Information	2
Specifications	5
Dimension.....	7
System Block Diagram	8
CPU Module Functional Block Diagram.....	8
Chapter 2 Connector Pin Define	9
Power IN:	9
Chapter 3 CPU Module	10
3.1 Introduction.....	10
3.2 Block Diagram	10
3.3 Specifications	11
3.4 Supported Operating Systems.....	12
3.4.1 Windows OS Driver	12
3.5 Electrical Characteristics	12
3.6 Power Consumption.....	13
Chapter 4 BIOS Setup	14
4.1 Entering Setup -- Launch System Setup	14
4.2 Main.....	15
4.3 Configuration	16
4.3.1 CPU Configuration	17
4.3.2 Chipset Configuration	18
4.3.3 LAN Configuration	19
4.3.4 PCI/PCIE Configuration	20

ROC200-DL User's Manual

Revision Date: Nov. 05. 2024

4.3.4.1	COMe PCIe Port 0/4/8/12	21
4.3.4.2	COMe PCIe Port 16~31.....	22
4.3.5	SATA Configuration	23
4.3.6	USB Configuration.....	24
4.3.7	Power Control Configuration	25
4.3.8	TPM Configuration.....	26
4.3.9	Super IO Configuration	28
4.3.9.1	Serial Port 1 Configuration.....	29
4.3.9.2	Serial Port 2 Configuration.....	30
4.3.10	H/W Monitor	31
4.3.11	Serial Port Console Redirection	32
4.3.11.1	Console Redirection Settings	33
4.3.12	EC Firmware Update	35
4.4	Security	36
4.4.1	Secure Boot.....	37
4.5	Boot	38
4.6	Save & Exit	39
4.7	BIOS/EC Update.....	40

Chapter 1 Product Introduction

Specifications

System

COM Express CPU (Type 7)	Intel® Xeon® D-1700 processor (Ice Lake-D LCC)
-----------------------------	--

COM Express CPU Options (Type 7)	Intel® Xeon® D-1700 processor (Ice Lake-D LCC) <ul style="list-style-type: none">•Xeon® D-1746TER 2.0/3.1GHz, 15MB, 67W, 10C•Xeon® D-1732TE 1.9/3.0GHz, 15MB, 52W, 8C•Xeon® D-1715TER 2.4/3.5GHz, 10MB, 50W, 4C
--	---

GPU Module	NVIDIA® Quadro® 5000Ada, 115W, 16GB GDDR6, 9728 CUDA Cores
Options	NVIDIA® Quadro® MXM A4500, 80/115W, 16GB GDDR6, 5888 CUDA Cores NVIDIA® Quadro® 3500Ada, 115W, 12GB GDDR6, 5120 CUDA Cores NVIDIA® Quadro® MXM A2000, 60W, 8GB GDDR6, 2560 CUDA Cores

Memory type	DDR4, up to 128GB
-------------	-------------------

Chipset	Base On CPU module
---------	--------------------

Watchdog	Base On CPU module
----------	--------------------

Display

Display Port	1x Display Port outputs from MXM GPU
--------------	--------------------------------------

Storage

M.2	1x M.2 2280 M-Key Slot (PCIe x4 GEN3, NVMe)
-----	---

Swappable SSD	1x 2.5" SATA III Swappable tray
---------------	---------------------------------

Ethernet

10GbE SFP+	4x (Intel C827 10G Retimer)
------------	-----------------------------

RJ45 GbE LAN	2x 1GbE(one from CPU module, One from I210IT)
--------------	---

Rear I/O

10GbE SFP+	4x
------------	----

Swappable SSD Tray	1x 2.5" SATA III Swappable tray
--------------------	---------------------------------

ROC200-DL User's Manual

Revision Date: Nov. 05. 2024

COM	2x RS232
-----	----------

Front I/O

LED	1x SSD LED
-----	------------

Power Button	1x Power Button w/Indicator LED
--------------	---------------------------------

USB	2x USB 3.0
-----	------------

Display port	1x DP
--------------	-------

LAN	2x RJ45
-----	---------

DC-IN	1x D38999 connector
-------	---------------------

Power Management

Power Type	Wide Voltage DC-IN 9V~36V (Support AT/ATX mode)
------------	---

Applications, Operating System

Applications	Energy/Power Plant Management, Intelligent Automation and manufacturing applications
--------------	--

Operating System	Win10, Win server 2012 R2 Standard
------------------	------------------------------------

Mechanical & Environmental

Dimension	250 x 350 x 88 mm (W x D x H)
-----------	-------------------------------

Weight	TBC
--------	-----

Chassis	Aluminum Alloy
---------	----------------

Heatsink	Aluminum Alloy, Corrosion Resistant
----------	-------------------------------------

Finish	Anodic aluminum oxide
--------	-----------------------

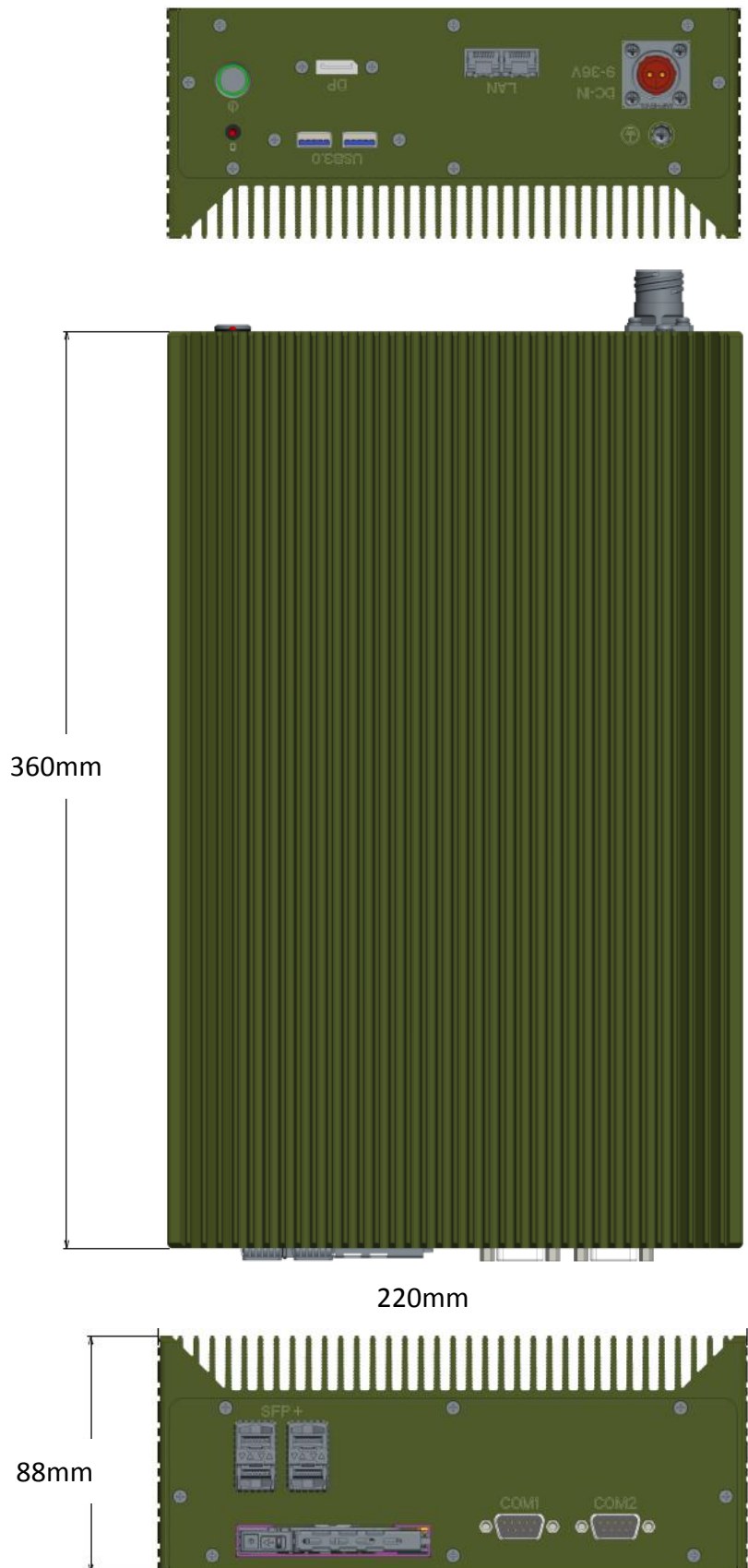
Compliance	MIL-STD-810G, IEC-61850-3, IEEE-1613, CE and FCC, RoHS
------------	--

Operating Temp.	-20 to 50°C
-----------------	-------------

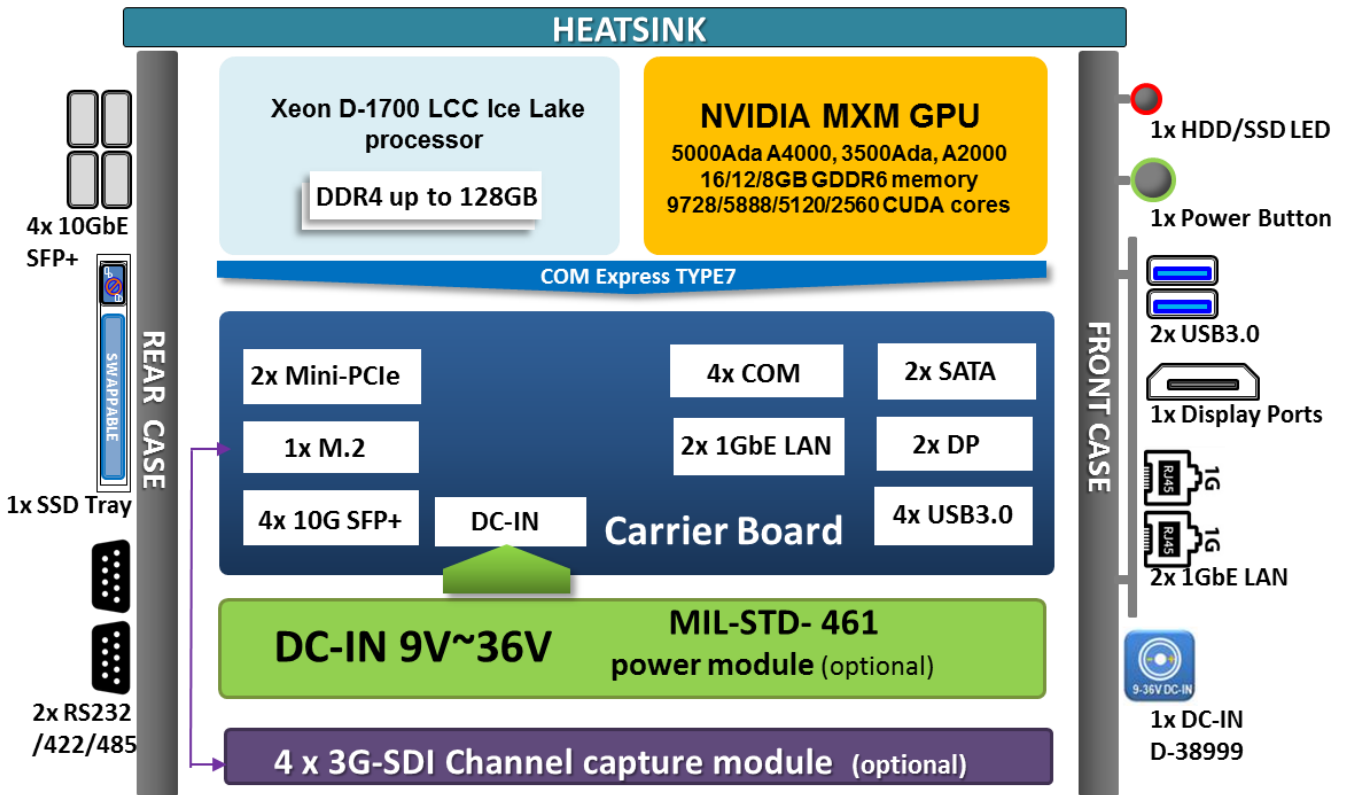
Storage Temp.	-40 to 85°C
---------------	-------------

Relative Humidity	5% to 95%, non-condensing
-------------------	---------------------------

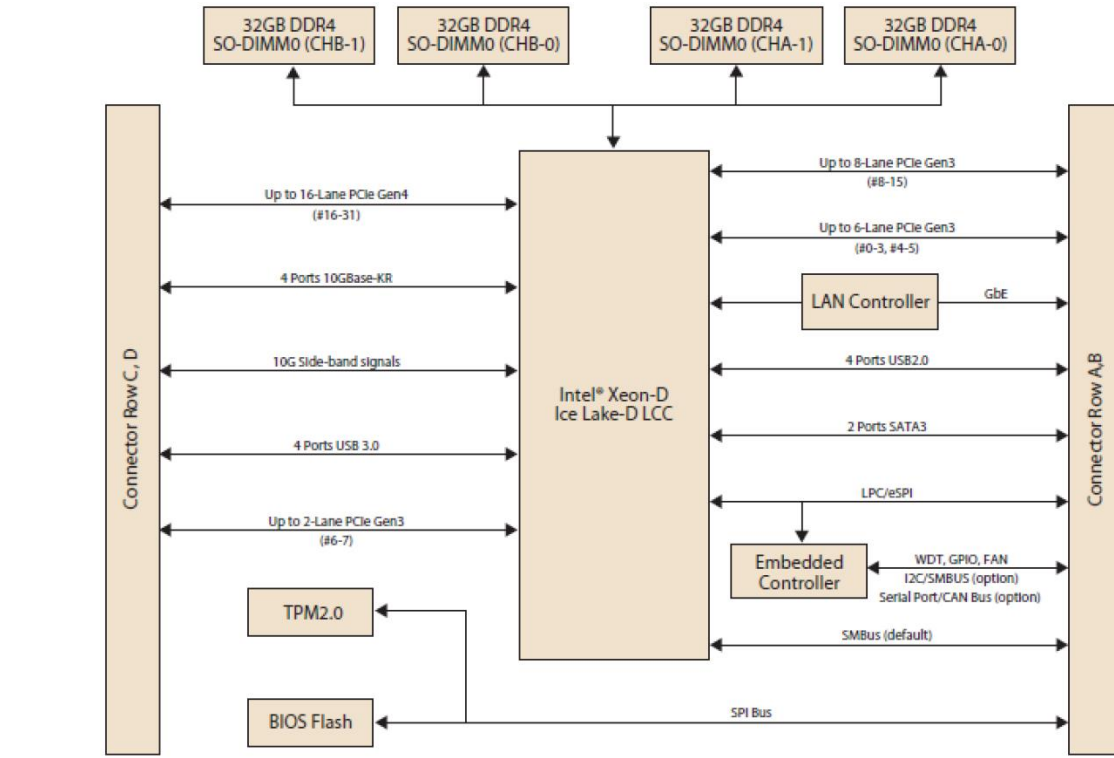
Dimension



System Block Diagram



CPU Module Functional Block Diagram



Chapter 2 Connector Pin Define

- Power IN:



	CON1	
Yellow (+)	A	TN1
Black (-)	B	TN2
Green	Shell	

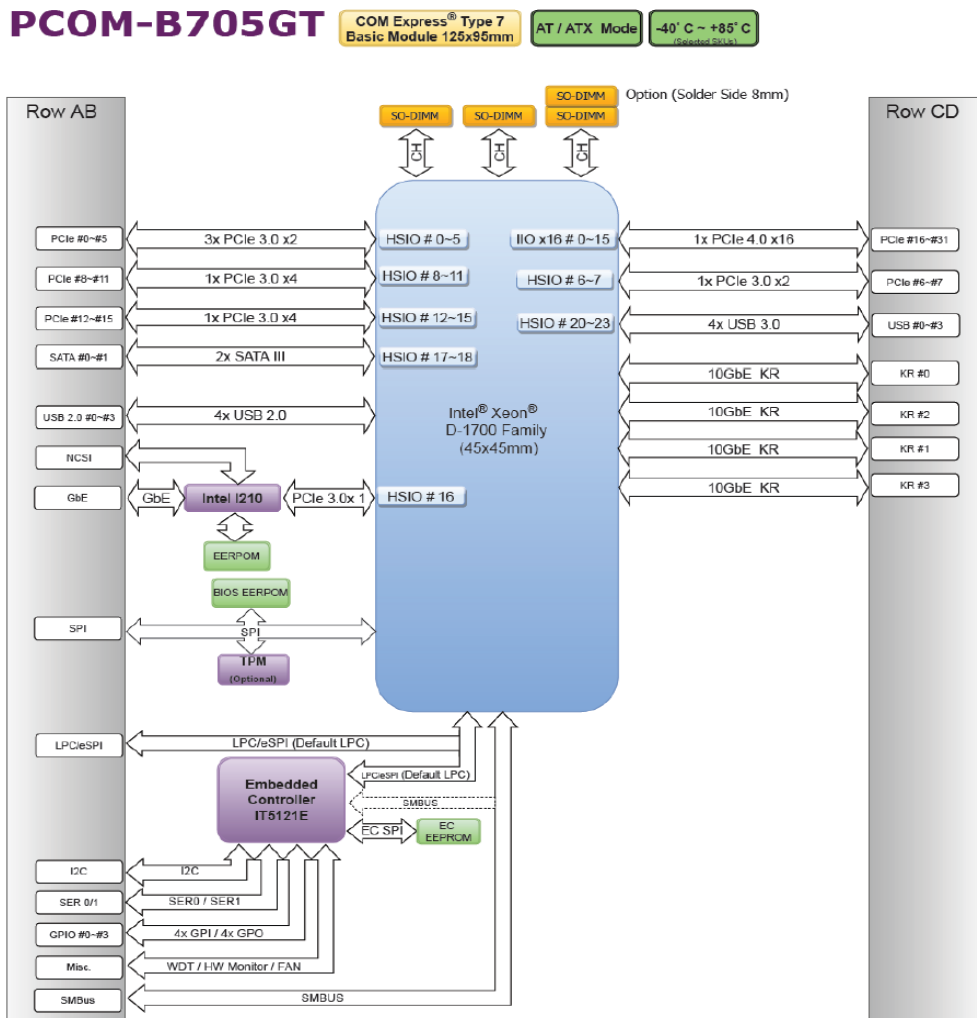
Chapter 3 CPU Module

3.1 Introduction

PCOM-B705GT, a Type 7 COM Express® basic size(125 x 95 mm) module which based on Intel® Xeon® D-1700 series processors. In this architecture, it could provide up to 10 cores / 20 threads processors with the maximum TDP=67w, and 4x 10G KR ports. It also supports 16x PCIe 4.0, 16x PCIe 3.0 lanes, 4x USB 3.2 Gen1, and 2x SATA III ports. Selected SKUs support wide-temperature range.

PCOM-B705GT offer an effective upgrade path for solutions already using the previous D-1600 COM Express modules, ideal for applications in edge/micro server and alike, requiring relatively lower power consumption while supporting high computing performance and communication throughput.

3.2 Block Diagram



3.3 Specifications

Product	PCOM-B705GT
Form Factor	COM Express® Type 7, Basic Size (125mm X 95mm)
Processor	Intel® Xeon® D-1746TER Intel® Xeon® D-1732TE Intel® Xeon® D-1715TER
BIOS	AMI UEFI BIOS
Memory	Support ECC and Non-ECC, up to 3 Channel Memory Operation 4x DDR4 SO-DIMM slots with 3 channels for 8 Core / 10 Core SKUs, up to 128GB, 2666MT/s 3x DDR4 SO-DIMM slots with 2 channels for 4 Core SKUs, up to 96GB, 2666MT/s
Ethernet	1x GbE (via Intel® i210AT/IT) 4x 10GbE: Mode Configuration, need different BIOS firmware for proper operation. <ul style="list-style-type: none">• 100G and 50G SKU: provide default BIOS support 4x 10G support LEK 7.0 CEI Mode.• For KR Mode Support, please contact sales for firmware support.• For 4x 25GbE Support on 100G SKU, please contact sales for ODM request.
PCI Express	16x PCIe 4.0 and 16x PCIe 3.0
I/O	4x USB 3.0 / 2.0 2x SATA 8 bit GPIO (default 4 in / 4 out) I2C / SMBus 2x UART
Hardware Monitors	ITE series Embedded Controller, Voltage, Fan and Temperature
Security	TPM 2.0
Power Management	ACPI 4.0
Environment	Operating Temperature: -40°C ~+80°C (selected SKU) Storage Temperature: -40°C ~+85°C Relative Humidity 5%~95%

3.4 Supported Operating Systems

Vendor	Operating System	Support
Windows	Microsoft Windows 10 IoT Enterprise LTSC	Intel, Microsoft
	Microsoft Windows Server 19H1, 19H2, 20H1	Intel, Microsoft
Linux	Red Hat Enterprise Linux 7.6 or latest	Red Hat
	SUSE Linux Enterpriser Server 12 SP4 or latest	SUSE, Open Source
	SUSE Linux Enterpriser Server 15 SP2 or latest	SUSE, Open Source
	Ubuntu 19.04 or latest	Canonical, Open Source
	Wind River Linux	Wind River
	Yocto Project BSP tool-based embedded Linux(64-bit)	Intel, Open Source
RTOS	Wind River VxWorks	Wind River
VMM	Linux KVM	Open Source
	ACRN	Open Source
	VMWare ESXi	VMware, Open Source
	Microsoft Windows Hyper-V: Windows Server 19H1	Microsoft
	Microsoft Windows Hyper-V: Windows Server 19H2	
	Microsoft Windows Hyper-V: Windows Server 20H1	
	Microsoft Azure	

Does not endorse/validate/support any specific Linux distribution or entity mentioned on this list. Recommends customers to work with Linux vendors/open-source communities to find feature list and support model

3.4.1 Windows OS Driver

Please download the drivers from Portwell download center website:

http://www.portwell.tw/support/download_center.php

3.5 Electrical Characteristics

Input voltage	+12V ± 5%
RTC Battery	From Carrier
Power on mode	ATX Mode & AT Mode

3.6 Power Consumption

Series	PCOM-B705GT		
	D-1746TER	D-1732TE	D-1715TER
Processor	D-1746TER	D-1732TE	D-1715TER
S0 Idle	1.56A	1.54A	1.64A
100% workload without turbo mode	4.48A	4.13A	3.43A
100% workload with turbo mode	4.83A	4.35A	3.81A
Peak Current	2.83A	2.69A	2.48A

Chapter 4 BIOS Setup

PCOM-B705GT is equipped with the AMI BIOS stored in Flash ROM. These BIOS has a built-in setup program that allows users to modify the basic system configuration easily. This type of information is stored in SPI ROM so that it is retained during power-off periods. When system is turned on, PCOM-B705GT communicates with peripheral devices and checks its hardware resources against the configuration information stored in the BIOS. If any error is detected, or the BIOS parameters need to be initially defined, the diagnostic program will prompt the user to enter the SETUP program. Some errors are significant enough to abort the start up.

4.1 Entering Setup -- Launch System Setup

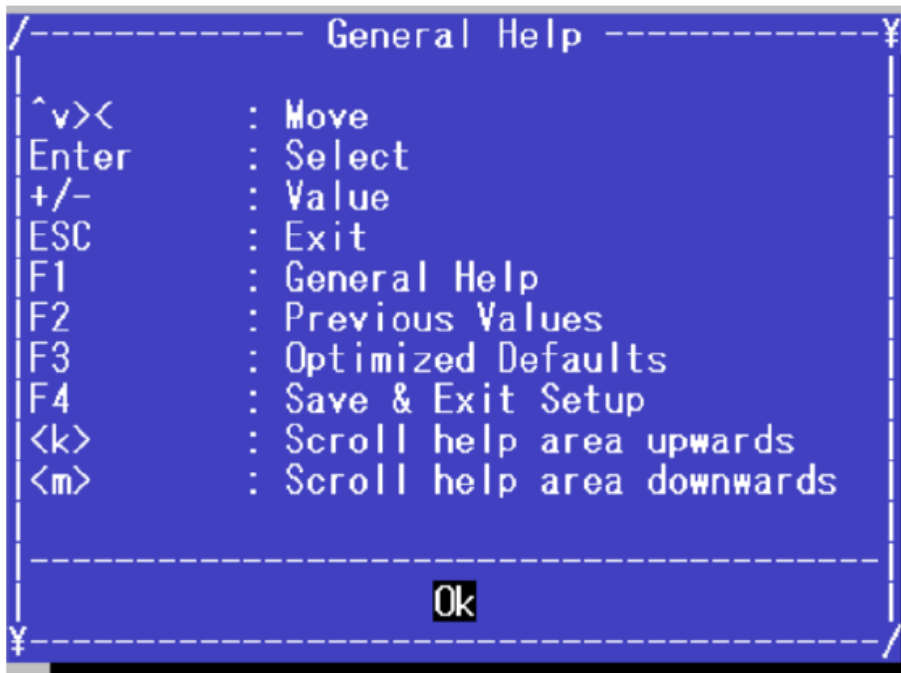
Power on the computer and the system will start POST (Power On Self Test) process. When the message below appears on the screen, press key will enter BIOS setup screen.

◆ Press to enter SETUP

If the message disappears before responding and still wish to enter Setup, please restart the system by turning it OFF and On or pressing the RESET button. It can be also restarted by pressing <Ctrl>, <Alt>, and <Delete> keys on keyboard simultaneously.

◆ Press <F1> to Run General Help or Resume

The BIOS setup program provides a General Help screen. The menu can be easily called up from any menu by pressing <F1>. The Help screen lists all the possible keys to use and the selections for the highlighted item. Press <Esc> to exit the Help screen.

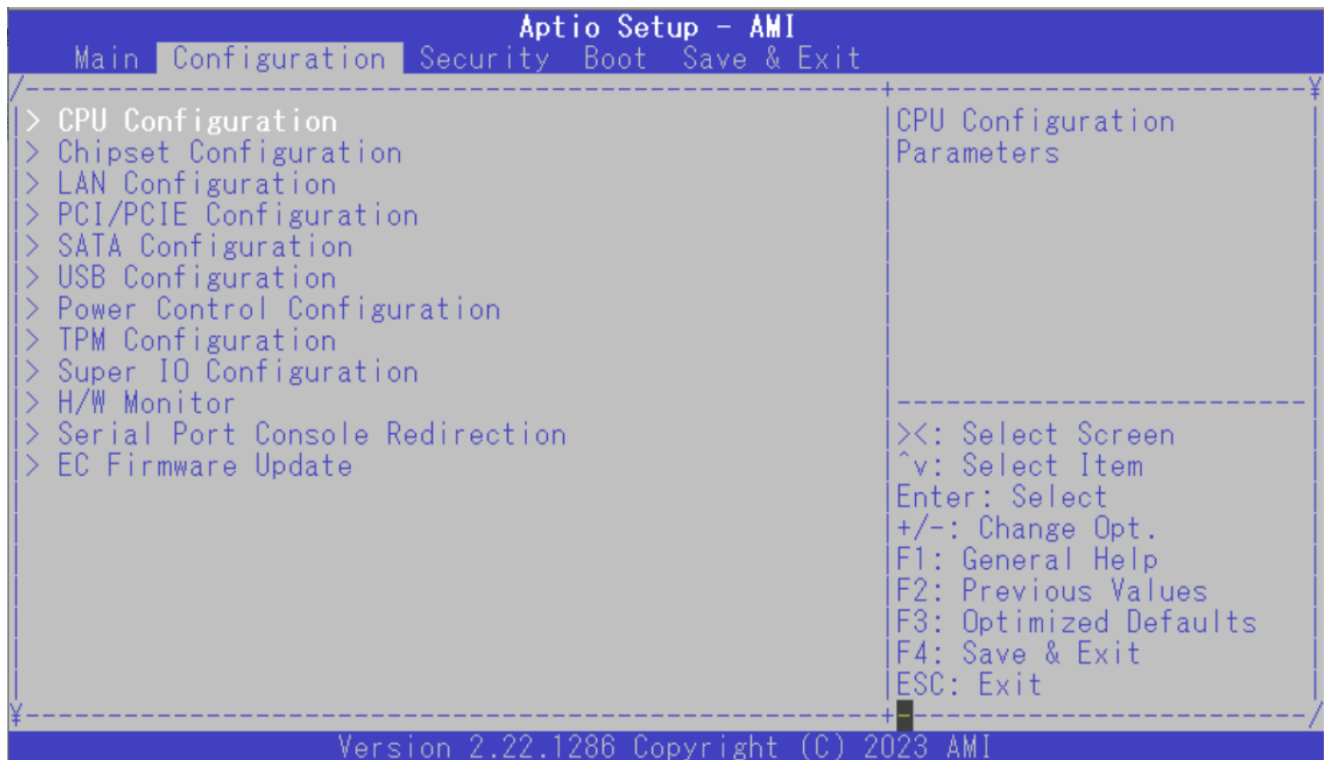


4.2 Main

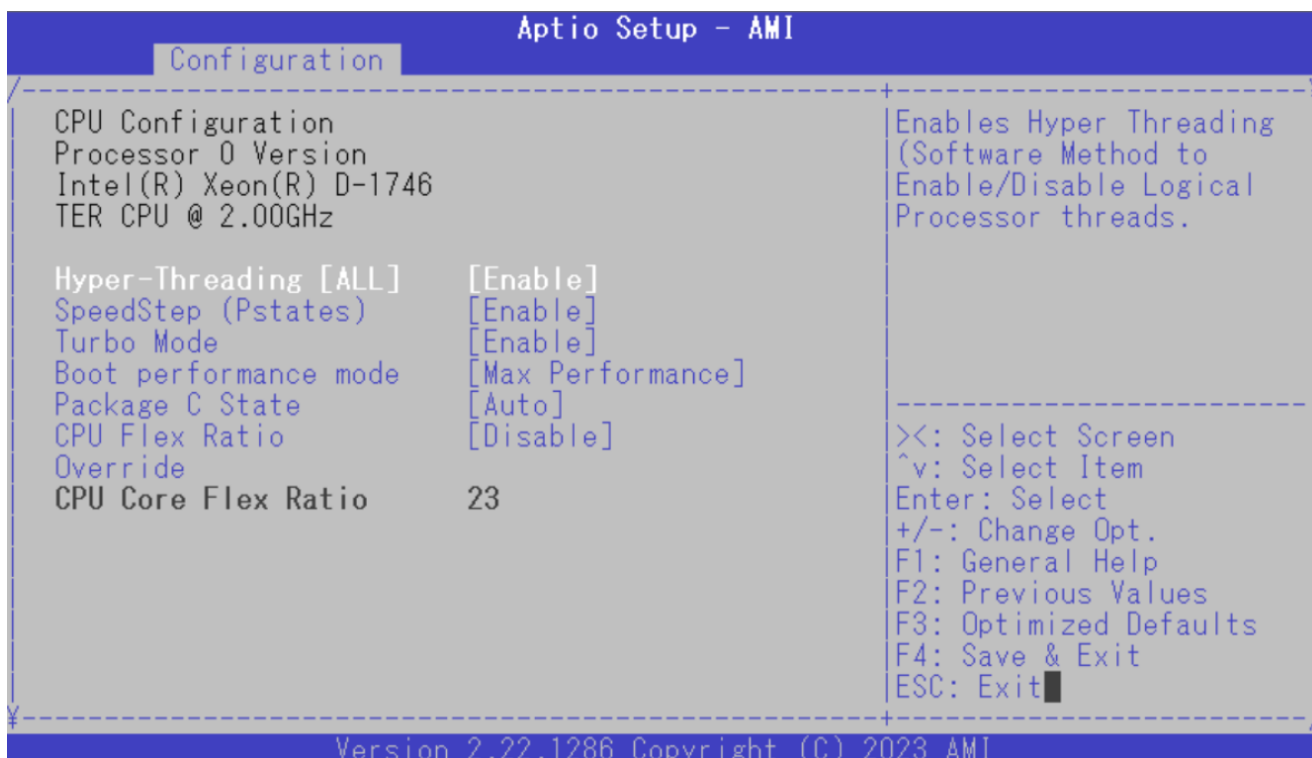


Feature	Description	Option
System Language		★English
System Date	The date format is <Day>, <Month> <Date> <Year>. Use [+] or [-] to configure system Date.	
System Time	The time format is <Hour> <Minute> <Second>. Use [+] or [-] to configure system Time.	

4.3 Configuration

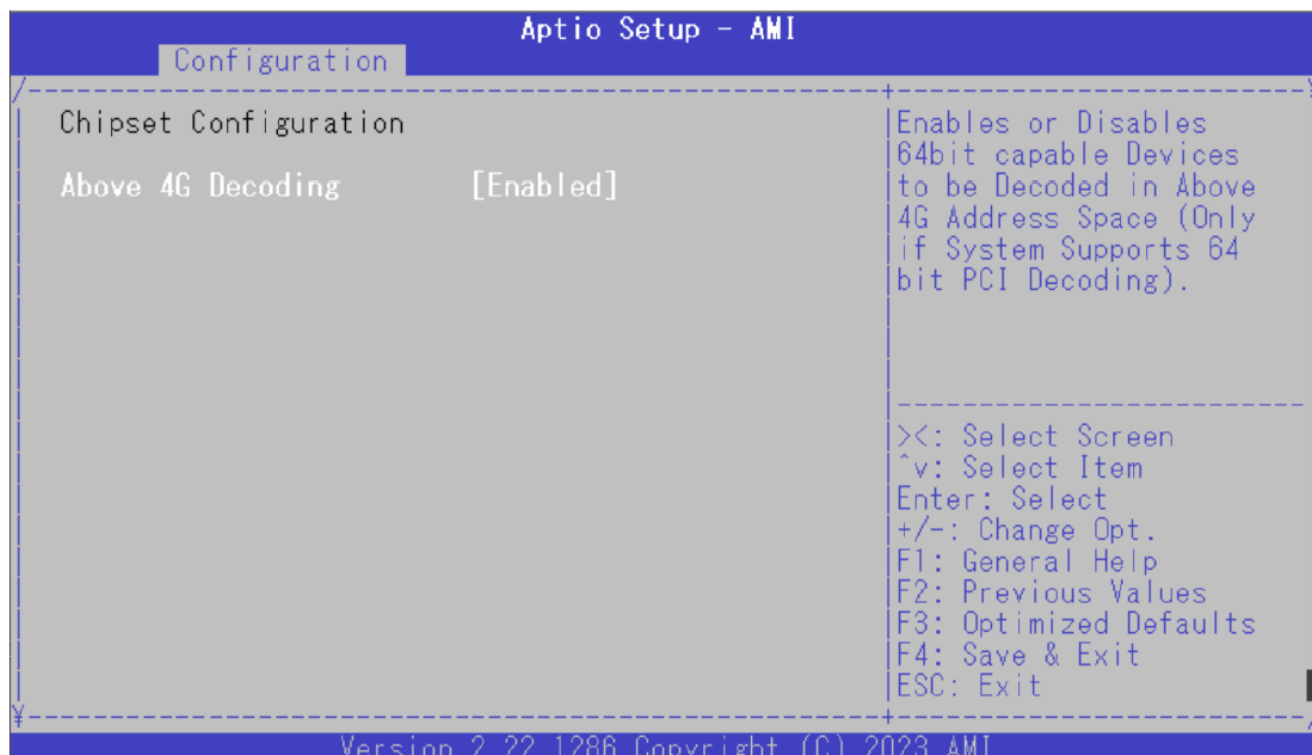


4.3.1 CPU Configuration



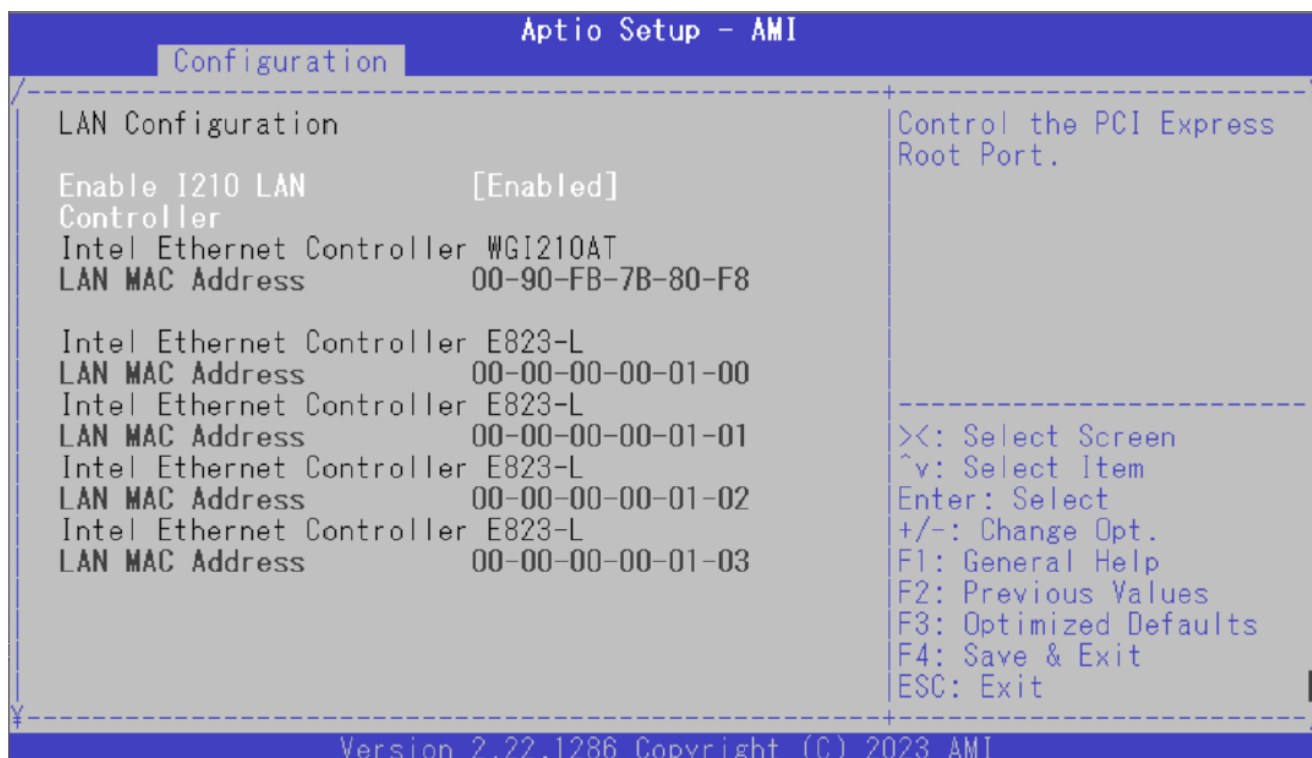
Feature	Description	Option
Hyper-Threading [ALL]	Enables Hyper Threading (Software Method to Enable / Disable Logical Processor threads.)	Disabled, ★Enabled
SpeedStep (Pstates)	Enable/Disable EIST (P-States)	Disabled, ★Enabled
Turbo Mode	Enable/Disable processor Turbo Mode (requires EMTTM enabled too)	Disabled, ★Enabled
Boot performance mode	Select the performance state that the BIOS will set before OS hand off	★Max Performance, Max Efficient, Set by Intel Node Manager
Package C State	Package C State limit.	C0/C1 state, C2 state, C6(non Retention) state, ★Auto
CPU Flex Ratio Override	Enable/Disable CPU Flex Ratio Programming	★Disabled, Enabled
CPU Core Flex Ratio	Non-Turbo Mode Processor Core Ratio Multiplier	

4.3.2 Chipset Configuration



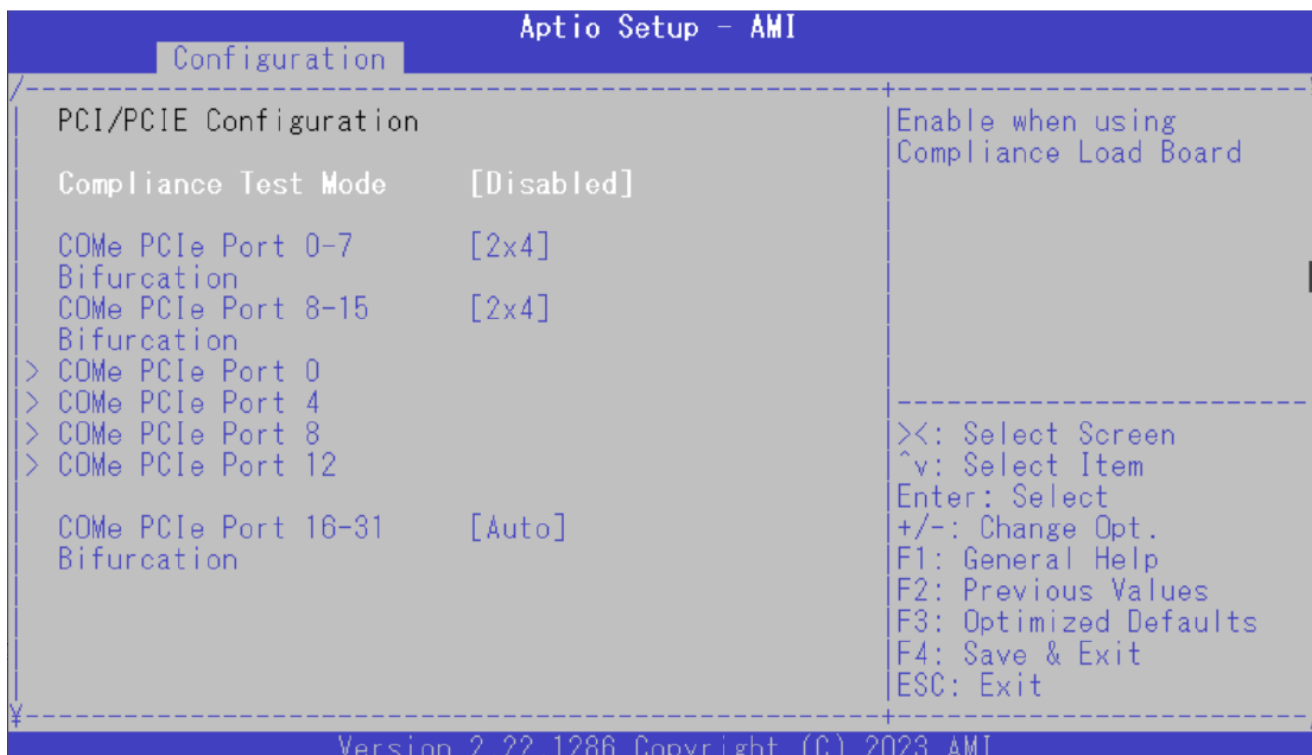
Feature	Description	Option
Above 4G Decoding	Enables or Disables 64bit capable Devices to be Decoded in Above 4G Address Space (Only if System Supports 64 bit PCI Decoding).	Disabled, ★Enabled

4.3.3 LAN Configuration



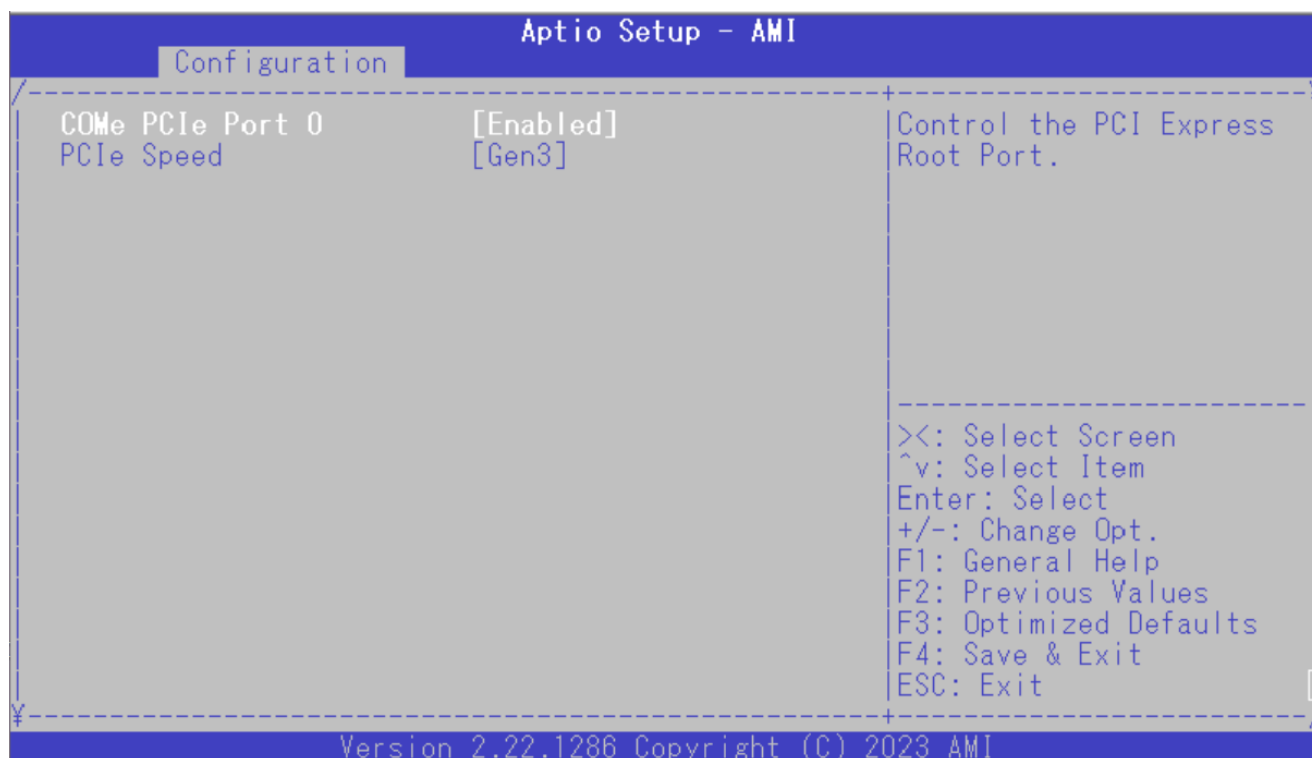
Feature	Description	Option
Enabled I210 LAN Control	Control the PCI Express Root Port.	Disabled, ★Enabled

4.3.4 PCI/PCIE Configuration



Feature	Description	Option
Compliance Test Mode	Enable when using Compliance Load Board	★Disabled, Enabled
COMe PCIe Port 0-7 Bifurcation	Allows changing PCIE bifurcation	4x2, 1x4 2x2, 2x2 1x4, ★ 2x4, 1x8
COMe PCIe Port 8-15 Bifurcation	Allows changing PCIE bifurcation	4x2, 1x4 2x2, 2x2 1x4, ★ 2x4, 1x8
COMe PCIe Port 0/4/8/12	PCI Express Root Port Settings	
COMe PCIe Port 16-31 Bifurcation	Selects PCIe port Bifurcation for selected slot(s)	★Auto, x4x4x4x4, x4x4x8, x8x8, x16

4.3.4.1 COMe PCIe Port 0/4/8/12



Feature	Description	Option
COMe PCIe Port 0/4/8/12	Control the PCI Express Root Port.	Disabled, ★Enabled
PCIe Speed	Configure PCIe Speed Auto is equal to Gen2 or Gen3 depending on DTR soft strap	Gen1, Gen2, ★Gen3

4.3.4.2 COMe PCIe Port 16~31



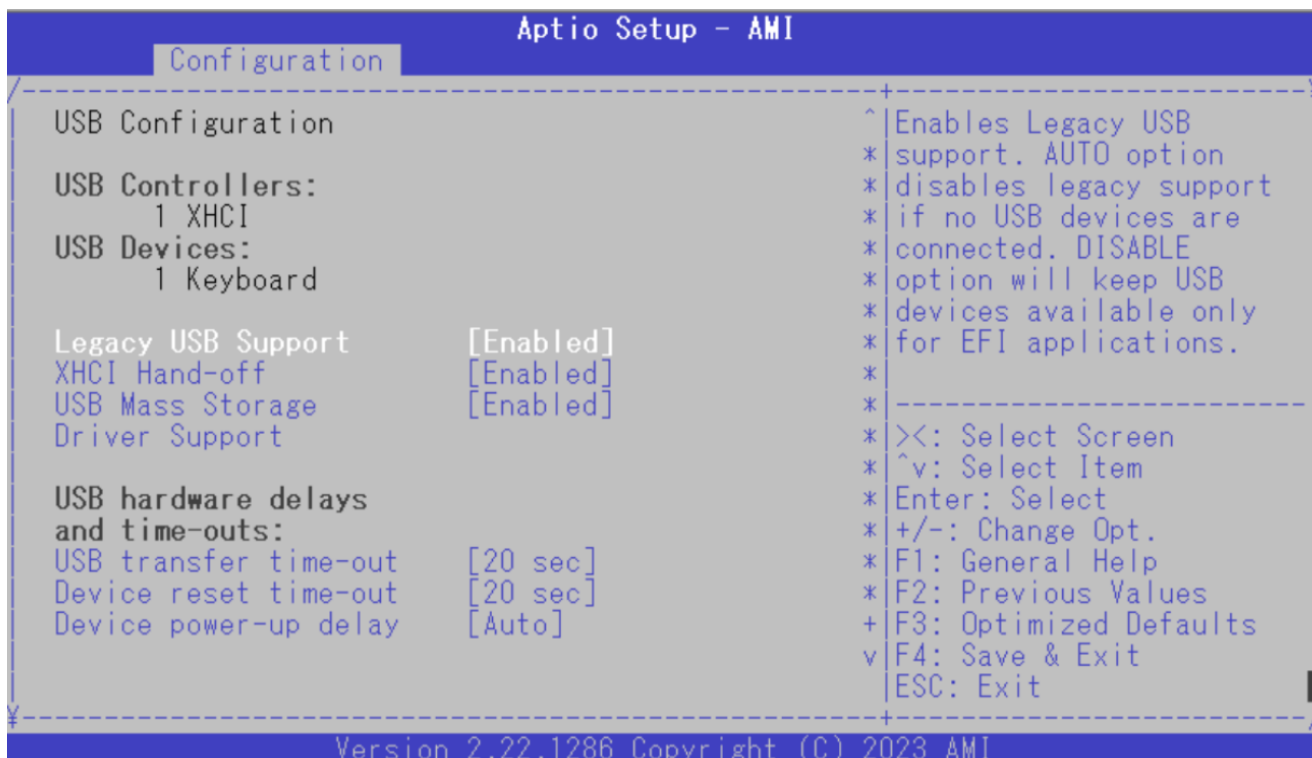
Feature	Description	Option
PCI-E Port	In auto mode the BIOS will remove the EXP port if there is no device or errors on that device and the device is not HP capable. Enable/Disable is used to enable/disable the port and expose/hide its CFG space.	★Auto, Disabled, Enabled
Link Speed	Choose Link Speed for this PCIe port.	★Auto Gen 1 (2.5 GT/s), Gen 2 (5 GT/s), Gen 3 (8 GT/s), Gen 4 (16 GT/s)

4.3.5 SATA Configuration



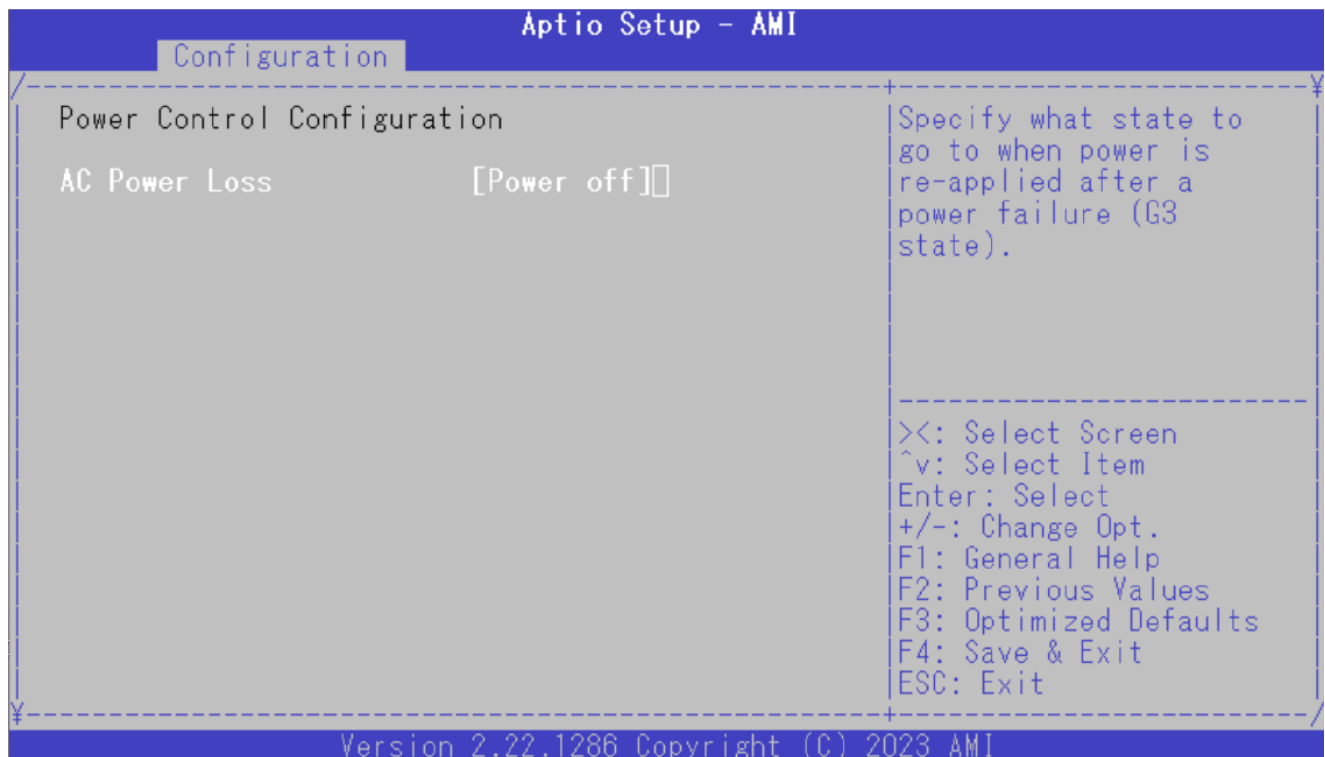
Feature	Description	Option
Port 0	Enabled or Disabled SATA Port	Disabled, ★Enabled
Port 1	Enabled or Disabled SATA Port	Disabled, ★Enabled

4.3.6 USB Configuration



Feature	Description	Option
Legacy USB Support	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected.	★Enabled , Disabled, Auto
XHCI Hand-off	This is a workaround for OSES without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver	Disabled, ★Enabled
USB Mass Storage Driver Support	Enable/Disable USB Mass Storage Driver Support	Disabled, ★Enabled
USB transfer time-out	The time-out value for Control, Bulk, and Interrupt transfers.	1, 5, 10, ★20 sec
Device reset time-out	USB mass storage device Start Unit command time-out.	10, ★20, 30, 40 sec
Device power-up delay	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 100 ms, for a Hub port the delay is taken.	★Auto, Manual

4.3.7 Power Control Configuration



Feature	Description	Option
AC Power Loss	Specify what state to go to when power is re-applied after a power failure (G3 state)	Power On, ★Power Off

4.3.8 TPM Configuration



Feature	Description	Option
TPM v1.2 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.	★Enabled, Disabled
SHA256 PCR Bank	Enable or Disable SHA256 PCR Bank.	Disabled, ★ Enabled
Pending operation	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device	★None, TPM Clear
Platform Hierarchy	Enable or Disable Platform Hierarchy.	Disabled, ★ Enabled
Storage Hierarchy	Enable or Disable Storage Hierarchy	Disabled, ★ Enabled
Endorsement Hierarchy	Enable or Disable Endorsement Hierarchy.	Disabled, ★ Enabled

ROC200-DL User's Manual

Revision Date: Nov. 05. 2024

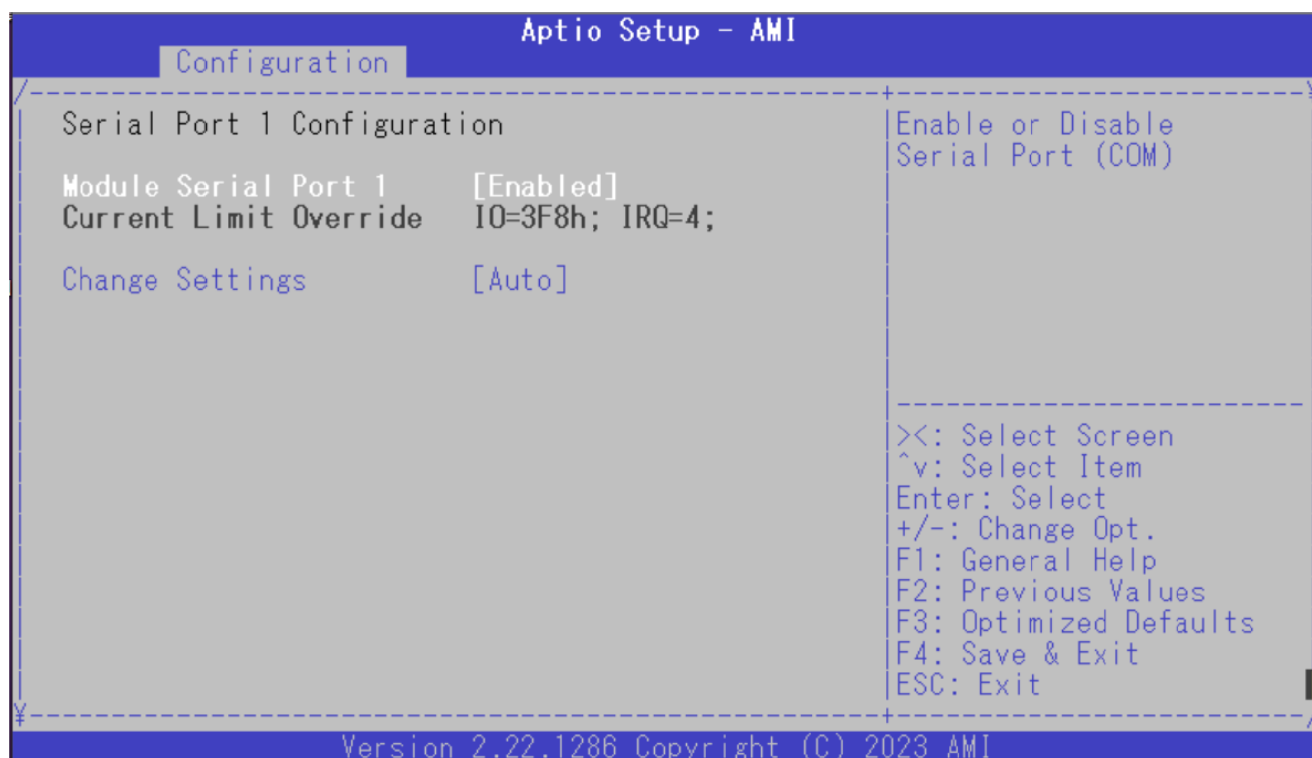
TPM 2.0 UEFI Spec Version	Select the TCG2 Spec Version Support, TCG_1_2: the Compatible mode for Win8/Win10, TCG_2: Support new TCG2 protocol and event format for Win10 or later.	TCG_1_2, ★ TCG_2
Physical Presence Spec Version	Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3. Note some HCK tests might not support 1.3	1.2, ★1.3
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.	TPM 1.2, TPM 2.0, ★Auto

4.3.9 Super IO Configuration



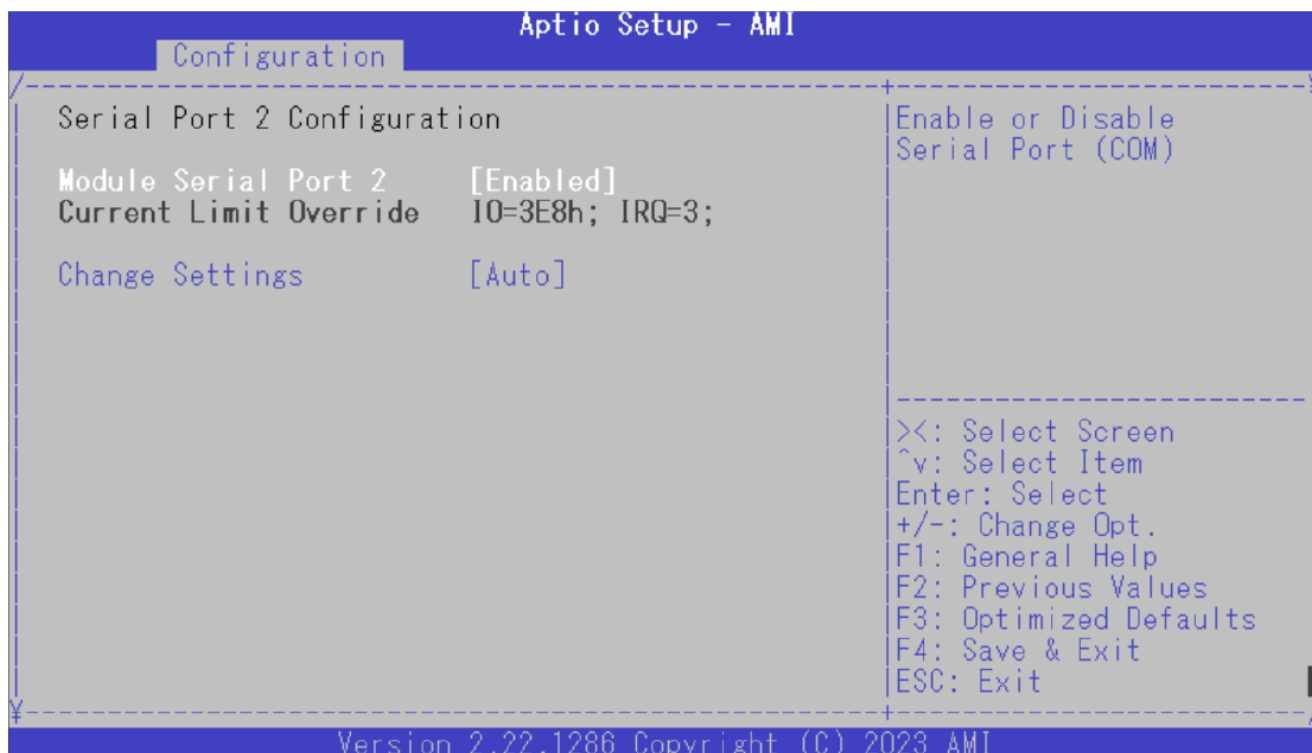
Feature	Description	Option
Watch Dog Timer	Enable/Disable Watch Dog Timer	★Disabled, Enabled
Timer Unit	Select Timer count unit of WDT [Watch Dog Timer [Enabled]]	★Second, Minute
Timer value	Set WDT Timer value seconds / minutes [Watch Dog Timer [Enabled]]	★20

4.3.9.1 Serial Port 1 Configuration



Feature	Description	Option
Module Serial Port 1	Enable or Disable Serial Port (COM)	★Enabled, Disabled
Change Settings	Select an optimal settings for Super IO Device	★Auto ,IO=3F8h; IRQ=4; IO=3F8h; IRQ=3,4,10,11; IO=2F8h; IRQ=3,4,10,11; IO=3E8h; IRQ=3,4,10,11; IO=2E8h; IRQ=3,4,10,11;

4.3.9.2 Serial Port 2 Configuration



Feature	Description	Option
Module Serial Port 2	Enable or Disable Serial Port (COM)	★Enabled, Disabled
Change Settings	Select an optimal settings for Super IO Device	★Auto ,IO=3E8h; IRQ=3; IO=3F8h; IRQ=3,4,10,11; IO=2F8h; IRQ=3,4,10,11; IO=3E8h; IRQ=3,4,10,11; IO=2E8h; IRQ=3,4,10,11;

4.3.10H/W Monitor

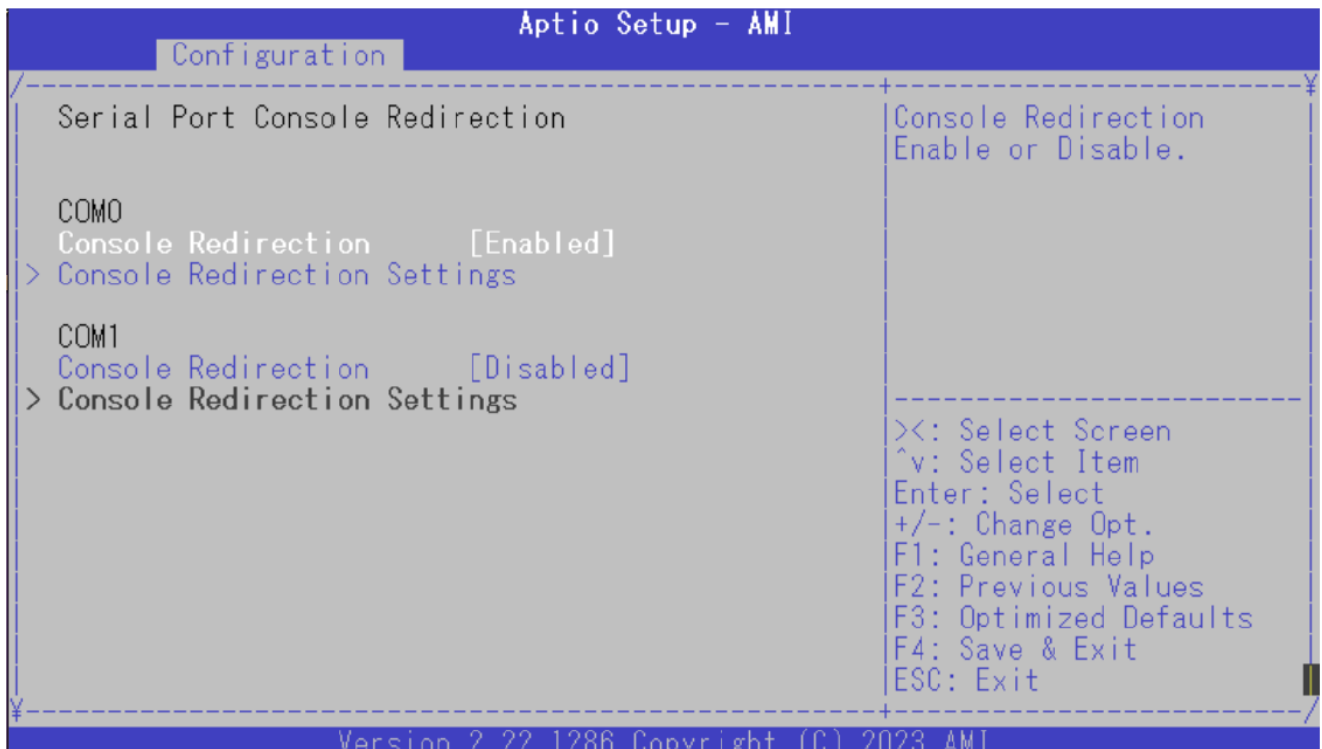
Aptio Setup Utility - Copyright (C) 2021 American Megatrends, Inc.
Configuration

CPU temperature	: +36 °C
Fan1 Speed	: 6738 RPM
Vcore	: +1.824 V
+3.3V	: +3.360 V
+5V	: +5.107 V
+12V	: +12.513 V
VDIMM	: +1.242 V

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

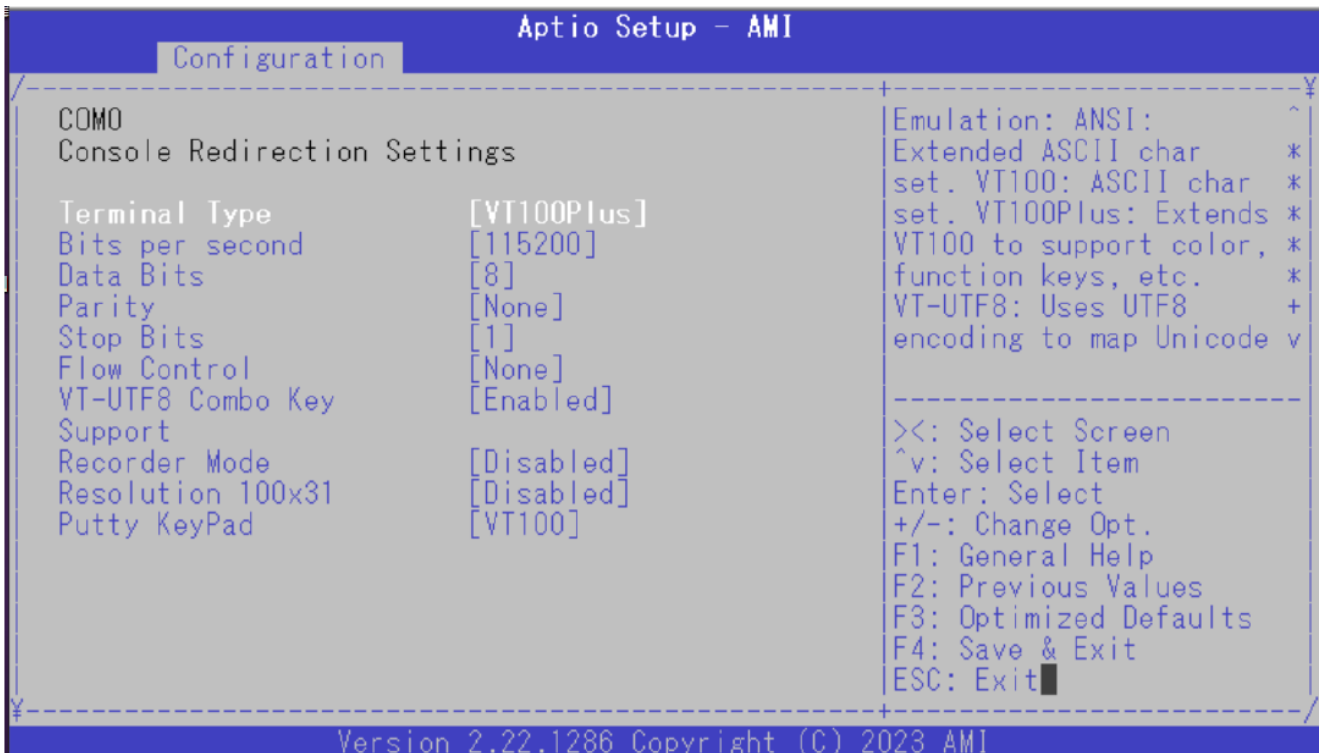
Version 2.20.1271. Copyright (C) 2021 American Megatrends, Inc.

4.3.11 Serial Port Console Redirection



Feature	Description	Option
COM0 Console Redirection	Console Redirection Enable or Disable	Disabled, ★Enabled
COM1 Console Redirection	Console Redirection Enable or Disable	★Enabled, Disabled

4.3.11.1 Console Redirection Settings



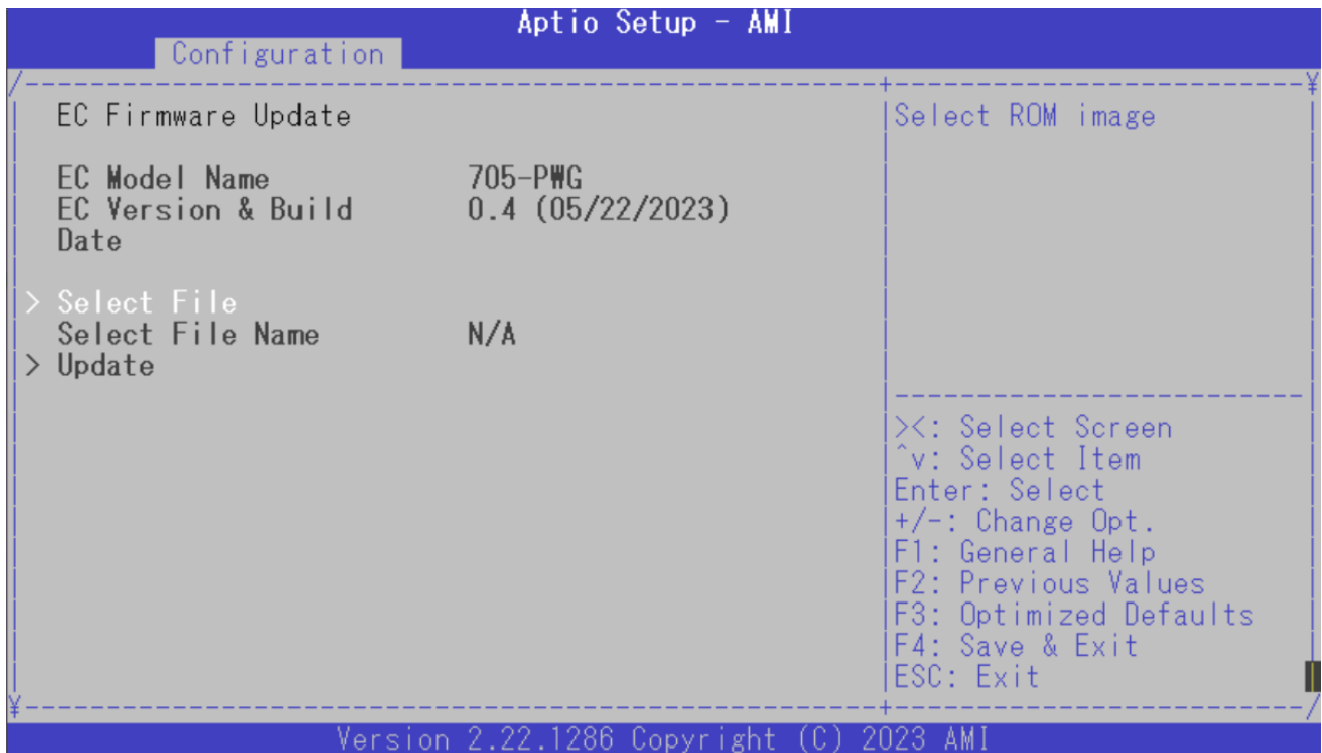
Feature	Description	Option
Terminal Type	Emulation: ANSI: Extended ASCII char set. VT100: ASCII char set. VT100+: Extends VT100 to support color, function keys, etc. VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.	★VT100+, VT100, ANSI, VT-UTF8
Bits per second	Select Serial port transmission speed. The speed must be matched on other side. Long or noisy lines may require lower speeds.	★115200, 9600, 19200, 38400, 57600
Data bits	Data bits	★8, 7
Parity	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the data bits is even. Odd: parity bit is 0 if num 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. They can be used as an additional data bit.	★None, Even, Odd, Mark, Space
Stop Bits	Stop bits indicate the end of a serial data packet. (A	★1,2

ROC200-DL User's Manual

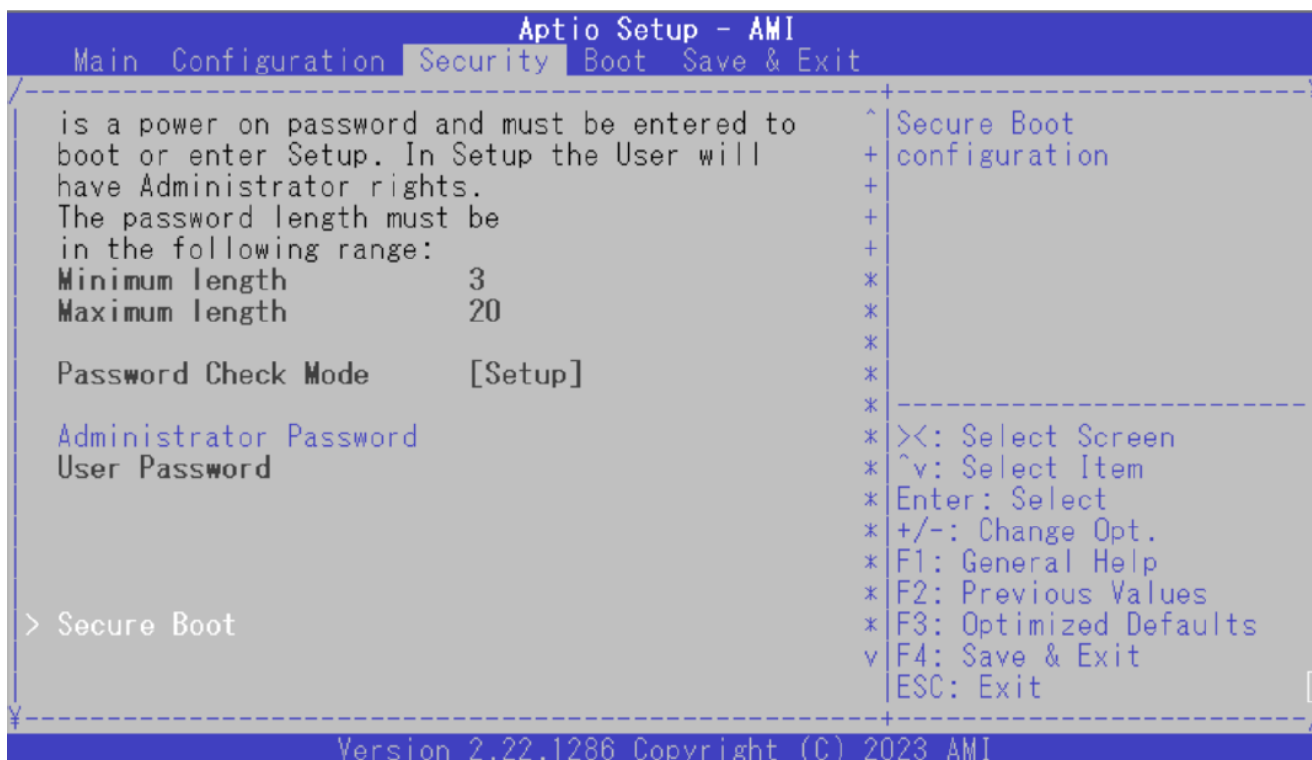
Revision Date: Nov. 05. 2024

	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 signal.	★None, Hardware RTS/CTS
VT-UTF8 Combo Key Support	Enable VT-UTF8 Combination Key Support for ANSI / VT100 terminals	★Enabled, Disabled
Recorder Mode	With this mode enabled only text will be sent. This is to capture Terminal data.	★Disabled, Enabled
Resolution 100x31	Enables or disables extended terminal resolution	★Disabled, Enabled
Putty KeyPad	Select Function Key and KeyPad on Putty.	★VT100, LINUX, XTERMR6, SCO, ESCN, VT400

4.3.12 EC Firmware Update

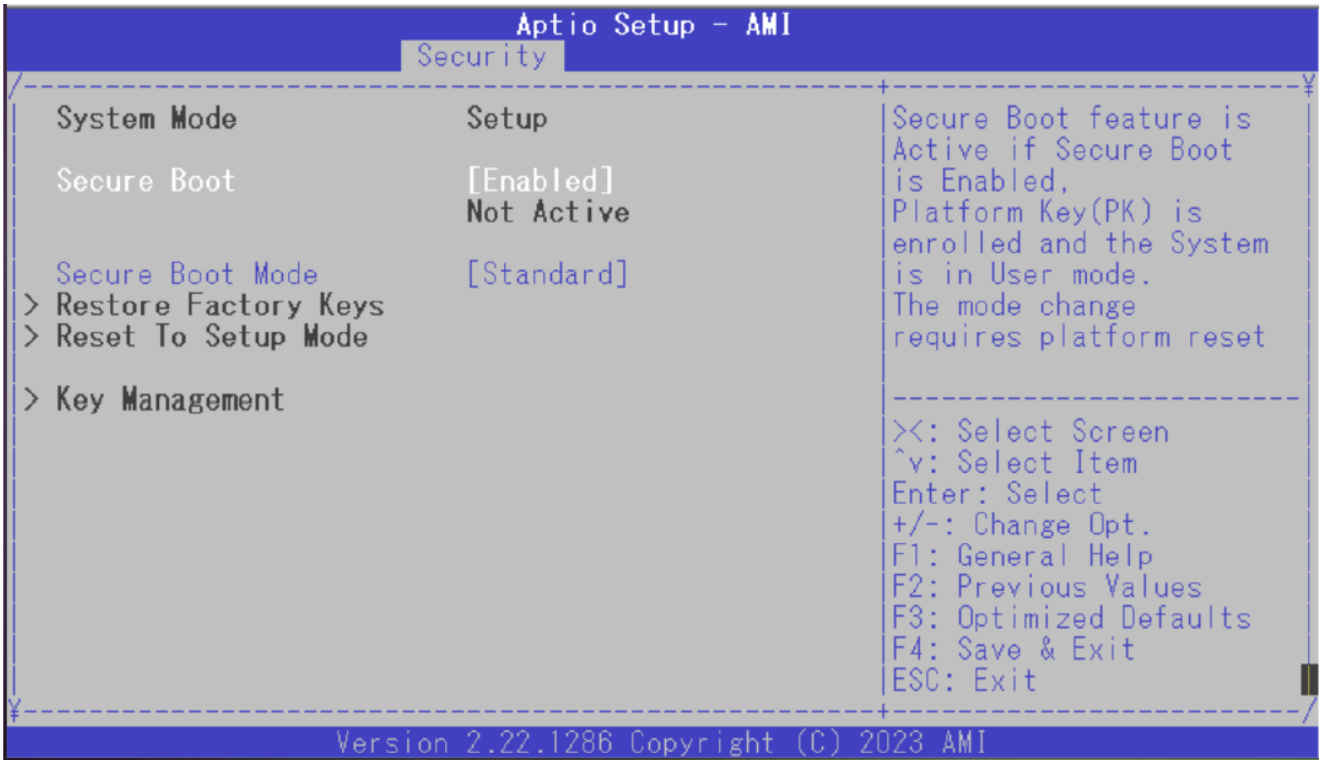


4.4 Security



Feature	Description	Option
Password Check Mode	[Setup] check password when enter setup screen. [Power on] check password on every time system power on.	★Setup, Power On
Administrator Password	Set Administrator Password	

4.4.1 Secure Boot



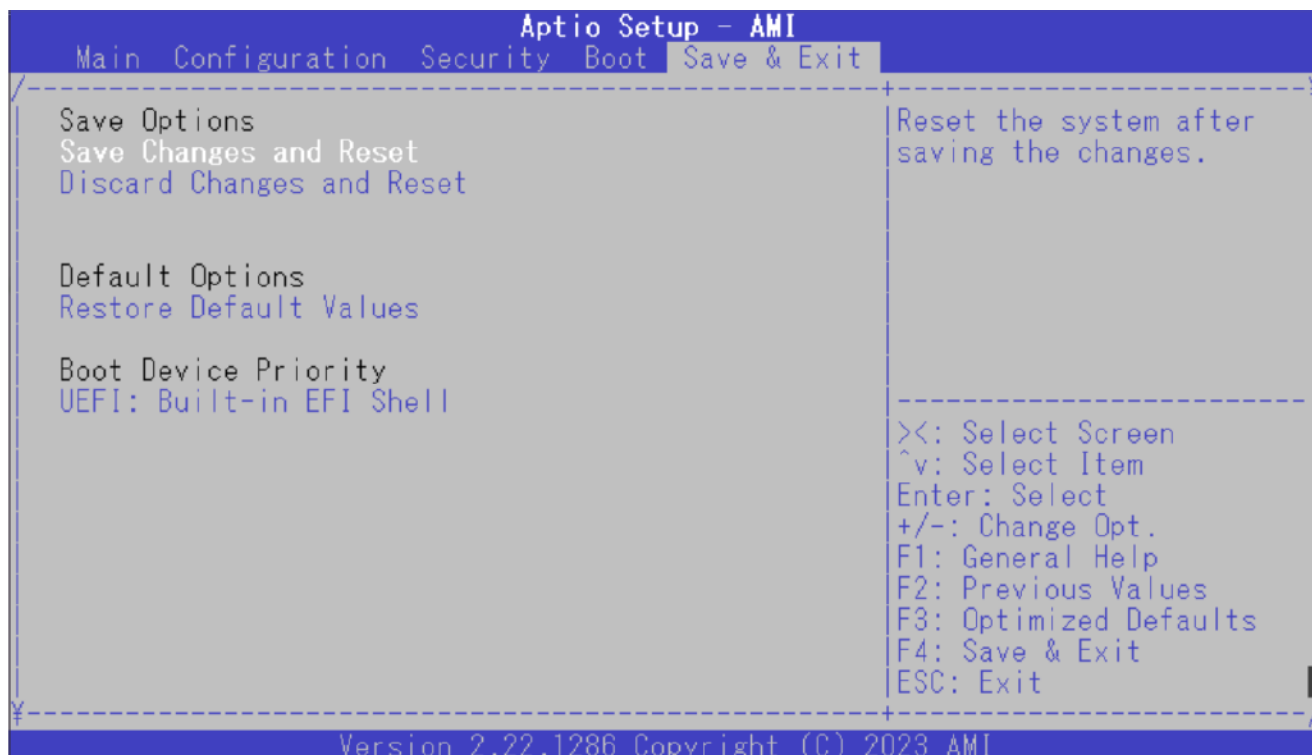
Feature	Description	Option
Secure Boot	Secure Boot feature is Active if Secure Boot is Enable, Platform Key(PK) is enrolled and the System is in User mode. The mode change requires platform reset	Disabled, ★Enabled
Secure Boot Mode	Secure Boot mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full	★Standard, Custom

4.5 Boot



Feature	Description	Option
Setup Prompt Timeout	Set the default timeout before system boot. A value of 65535 will disable the timeout completely.	★3
Bootup NumLock State	Select the keyboard NumLock state.	★On, Off
Full Screen LOGO	Enables or disables Quiet Boot option and Full screen Logo.	★Disabled, Enabled
Boot Option #	Sets the system boot order	UEFI: Built-in EFI Shell Disabled

4.6 Save & Exit

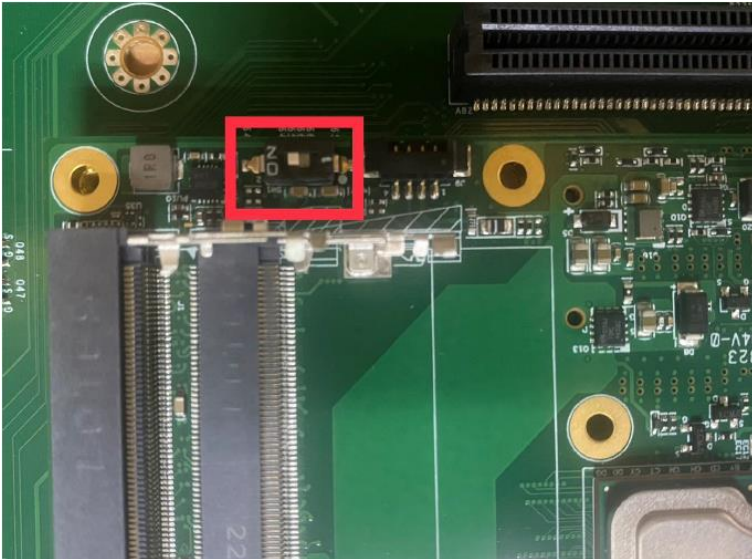


Feature	Description	Option
Save Changes and Reset	Reset the system after saving the changes.	
Restore Defaults Values	Restore/Load Default values for all the setup options.	
UEFI: Built-in EFI Shell	Reset the system after saving the changes. (Boot option filter: UEFI only)	

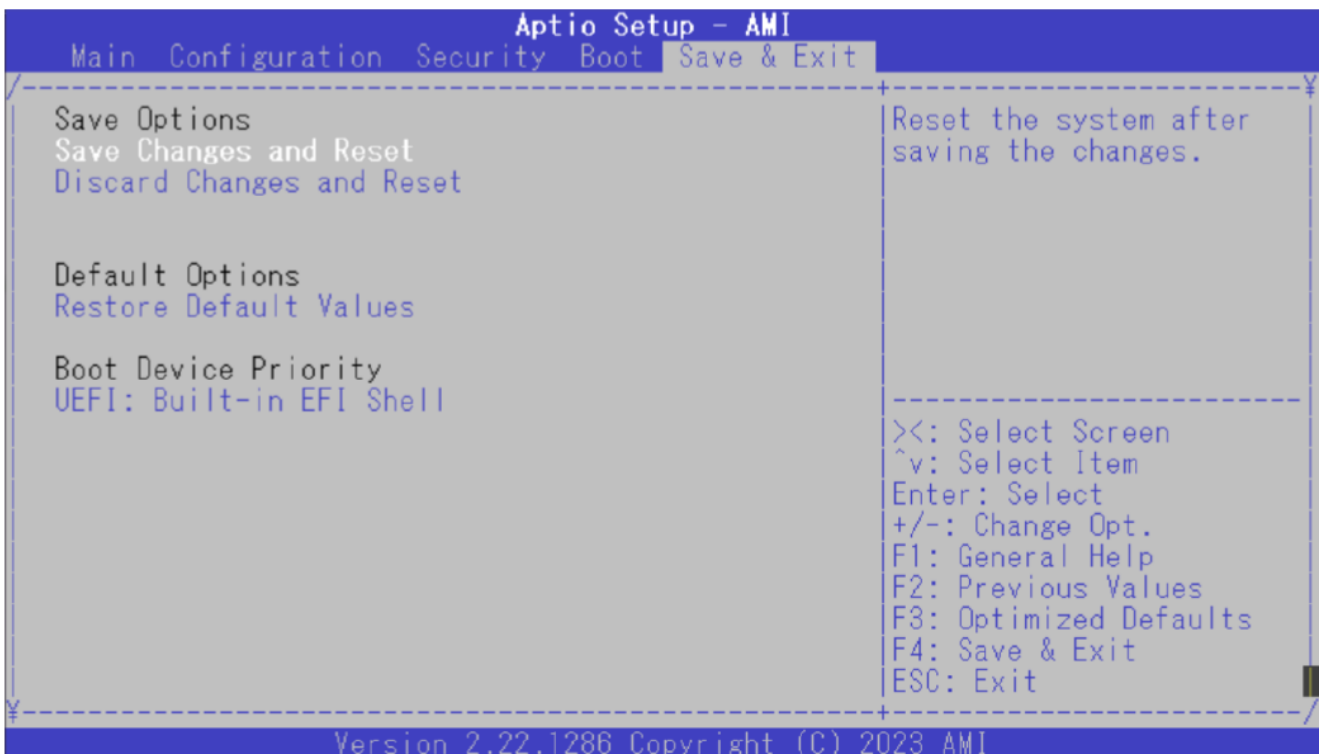
4.7 BIOS/EC Update

PCOM-B705GT only support BIOS/EC update under UEFI shell environment, refer the following step, please.

- ◆ **Step 1. The switch need to set on “on”**



- ◆ **Step 2. Unzip update file to the USB DOK (USB DOK must be FAT or FAT32 format)**
- ◆ **Step 3. Plug the USB DOK on the target system and boot from UEFI shell**



- ◆ **Step 4.** Under the UEFI shell, change prompt to your USB DOK, the below example is “ fs0: “
- ◆ **Step 5.** Then change the folder with updated file and use command: “ update “ and press enter

```
EFI Shell version 2.80 [5.28]
Current running mode 1.1.2
Device mapping table
  fs0      :Removable HardDisk - Alias hd35h0b blk0
           PciRoot(0x0)/Pci(0x1E,0x0)/USB(0x7,0x0)/HD(1,MBR,0xF87AA5B3,0x20,0x3A
1FFE0)
  blk0     :Removable HardDisk - Alias hd35h0b fs0
           PciRoot(0x0)/Pci(0x1E,0x0)/USB(0x7,0x0)/HD(1,MBR,0xF87AA5B3,0x20,0x3A
1FFE0)
  blk1     :Removable BlockDevice - Alias (null)
           PciRoot(0x0)/Pci(0x1E,0x0)/USB(0x7,0x0)

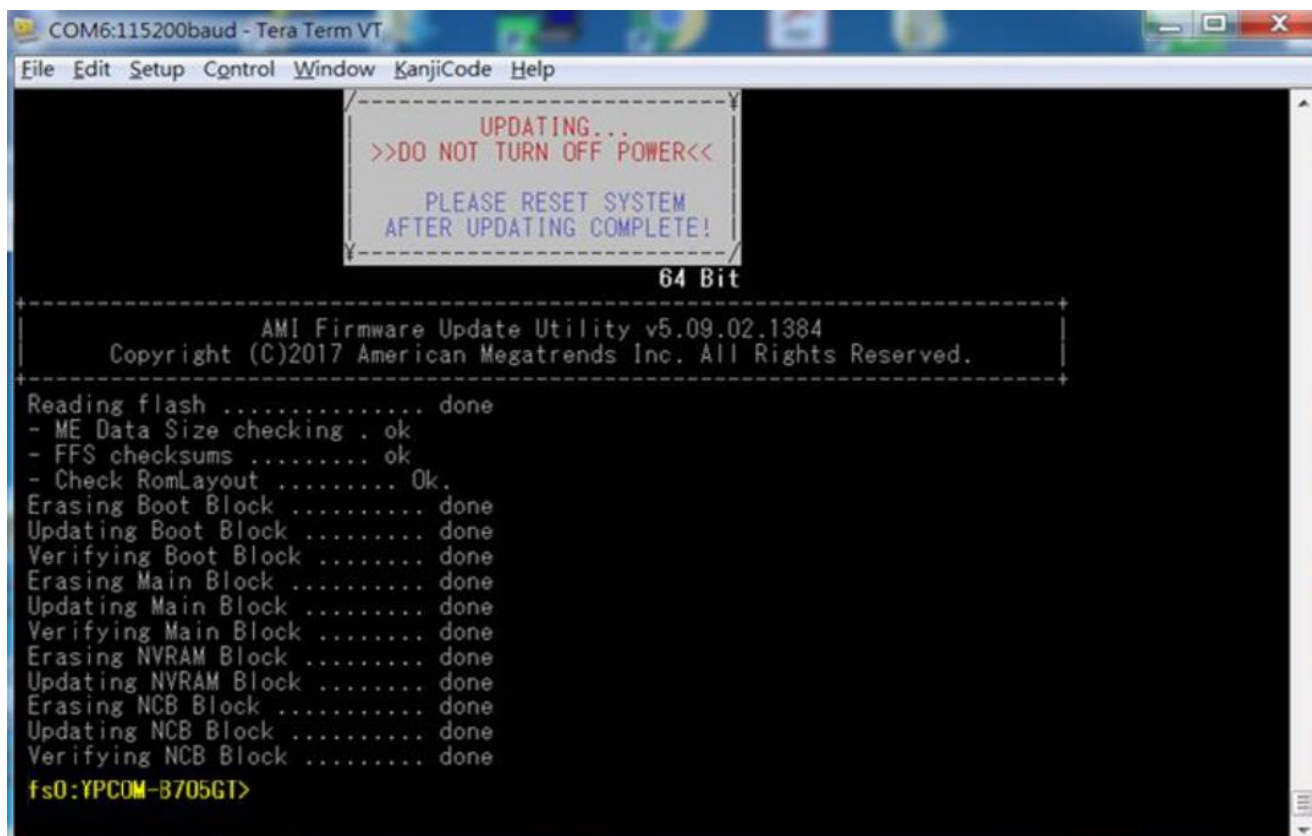
Press ESC in 5 seconds to skip startup.nsh, any other key to continue.
Shell> fs0:
fs0:¥> cd PCOM-B705GT
fs0:¥PCOM-B705GT> Update.efi
```

Step 6. The updating process will start and show the updating progress

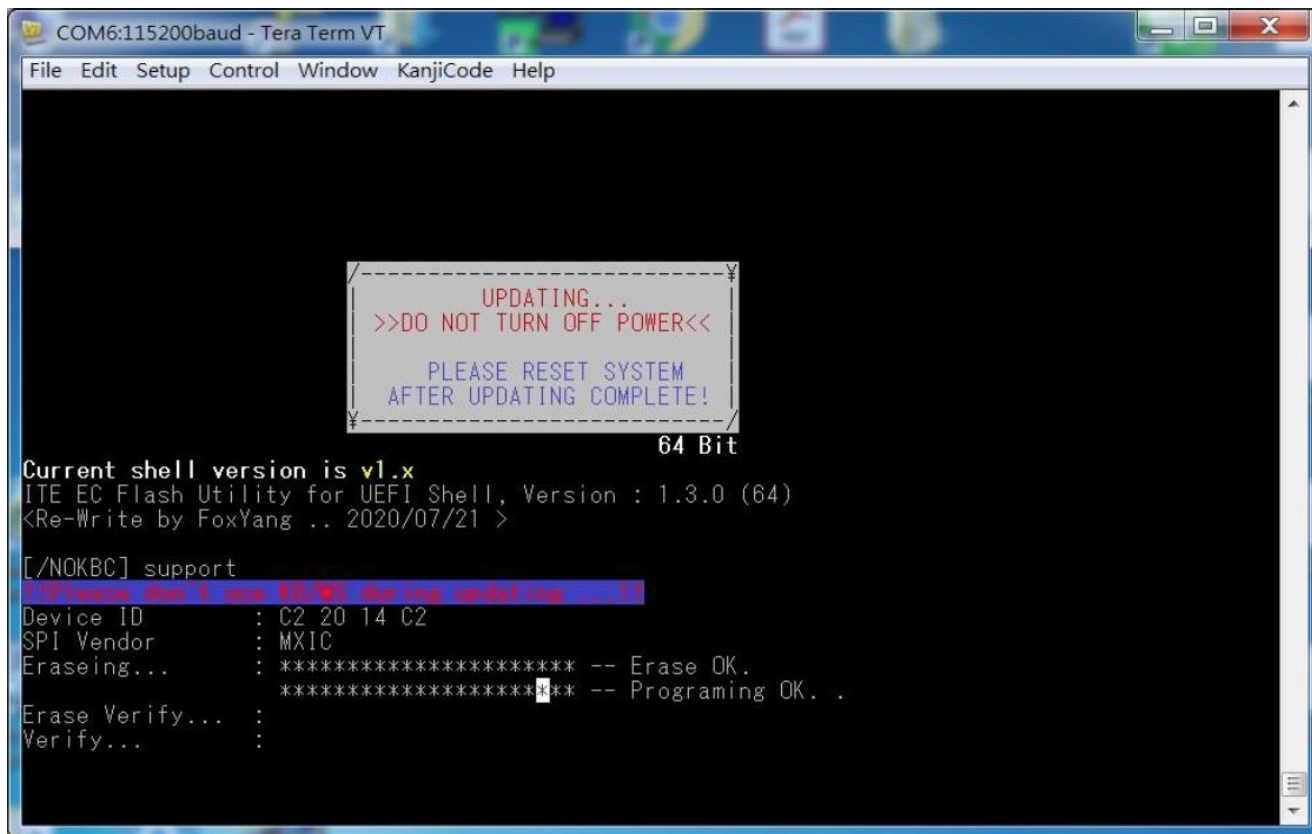
Step 7. Please power off and restart the system once updating finished

ROC200-DL User's Manual

Revision Date: Nov. 05. 2024



(BIOS updating progress)



(EC updating progress)