

USER'S MANUAL

SIO-200 Series

Stainless Steel Panel PCs

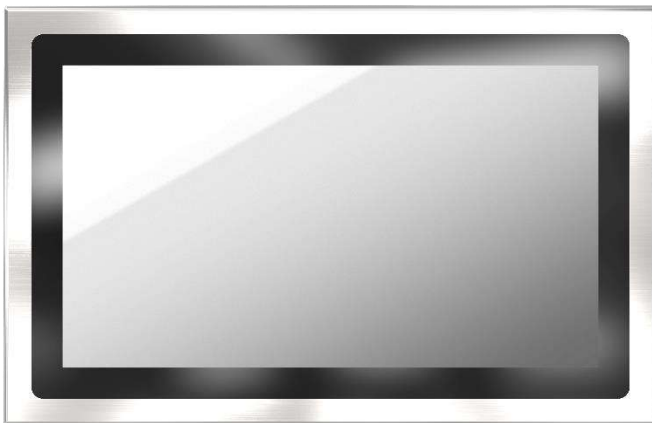


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Prefaces

Revision

Revision	Description	Date
1.0	Manual Released	2023/09/06

Disclaimer

All specifications and information in this User's Manual are believed to be accurate and up to date. C&T Solution Inc. does not guarantee that the contents herein are complete, true, accurate or non-misleading. The information in this document is subject to change without notice and does not represent a commitment on the part of C&T Solution Inc.

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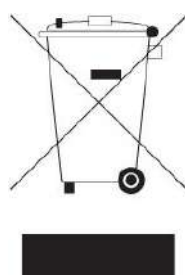
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Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. Please recycle to minimize pollution and ensure environment protection.



Safety Precautions

Before installing and using the equipment, please read the following precautions:

- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
- The power outlet shall be installed near the equipment and shall be easily accessible.
- Turn off the system power and disconnect the power cord from its source before making any installation. Be sure both the system and the external devices are turned OFF. Sudden surge of power could ruin sensitive components. Make sure the equipment is properly grounded.
- When the power is connected, never open the equipment. The equipment should be opened only by qualified service personnel.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Disconnect this equipment from the power before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- Avoid the dusty, humidity and temperature extremes.
- Do not place heavy objects on the equipment.
- If the equipment is not used for long time, disconnect it from the power to avoid being damaged by transient over-voltage.
- The storage temperature shall be above -20°C and below 70°C.
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- If one of the following situation arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well or it cannot work according the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.

Technical Support and Assistance

1. Visit the C&T Solution Inc website at <https://www.candtsolution.com/> where you can find the latest information about the product.
2. Contact your distributor, our technical support team or sales representative for technical support if you need additional assistance. Please have following information ready before you call:
 - Model name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Conventions Used in this Manual



WARNING

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury.



CAUTION

This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.



NOTE

This indication provides additional information to complete a task easily.

Package Contents

Before installation, please ensure all the items listed in the following table are included in the package.

Item	Description	Q'ty
1	SIO-200 Series Stainless Steel Panel PC	1
2	Waterproof Connector Cover Set	7

Ordering Information

Model No.	Description
1-TPWR00092	Waterproof M12 S-CODE 4P PWR Cable(SUS316L) Type_ L=3M
1-TPWR00106	Waterproof M12 S-CODE 4P PWR Cable(SUS316L) Type_EU L=3M
1-TCOM00032	Waterproof M12 A-CODE 8P COM Cable(SUS316L)_DB9 L=1.5M
1-TLAN00024	Waterproof M12 X-CODE 8P LAN Cable(SUS316L)_CAT 5E_RJ45 L=1.5M
1-TUSB00057	Waterproof M12 A-CODE 8P USB 2.0 Cable(SUS316L)_Type A*2 L=1.6M

Available Models

Model No.	Description
SIO-215C-J1900	15" XGA Capacitive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, M12 PWR Cord, Optical bonding
SIO-215R-J1900	15" XGA Resistive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, Optical bonding
SIO-W215C-J1900	15.6" FHD Capacitive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, Optical bonding
SIO-W215R-J1900	15.6" FHD Resistive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, Optical bonding
SIO-W221C-i5-8365UE	21.5" FHD Capacitive Touch Stainless Steel Panel PC with Intel CPU i5-8365UE, AC IN, Optical bonding
SIO-W221R-i5-8365UE	21.5" FHD Resistive Touch Stainless Steel Panel PC with Intel CPU i5-8365UE, AC IN, Optical bonding
SIO-W224C-i5-8365UE	23.8" FHD Capacitive Touch Stainless Steel Panel PC with Intel CPU i5-8365UE, AC IN, Optical bonding
SIO-W224R-i5-8365UE	23.8" FHD Resistive Touch Stainless Steel Panel PC with Intel CPU i5-8365UE, AC IN, Optical bonding

Chapter 1

Product Introductions

1.1 Overview

The SIO-200 series full IP66/IP69K Waterproof Touchscreen Computer for High-Pressure, High-Temperature Waterproof and Reliable connections resistant to humidity, water, dust, dirt and corrosion. The Rugged Stainless Steel Display for Hygienic Environments.

FHD Resistive / Capacitive Touch Stainless Steel Panel PC with
Intel® Celeron® Processor J1900 or Intel® Core™ i5-8365UE Processor



Key Features

J1900 Series: SIO-215-J1900 or SIO-W215-J1900

- Resistive 5-wire / projected capacitive touch
- Intel® Celeron® processor J1900, 2.0 GHz
- 1x 8GB DDR3L SODIMM, 1x 128GB mSATA
- 2x M12 for 4x USB 2.0, 2x M12 for LAN, 2x M12 for COM
- 1x Full-size Mini PCIe for expansion
- Support 110V to 240V AC power input
- Fanless Operation from -20°C to 55°C
- Full system IP66/IP69K with Stainless Steel SUS316 construction
- Scratch-resistant and Wear-resistant 7H Tempered Glass
- Optical Bonding for ultimate clarity
- Pressure Valve SUS316 VENT

8365UE Series: SIO-W221-8365UE or SIO-W224-8365UE

- Resistive 5-wire / projected capacitive touch
- Intel® Core™ i5-8365UE Processor, 4.10 GHz
- 1x 8GB DDR4 SODIMM, 1x 128GB mSATA
- 2x M12 for 4x USB 2.0, 2x M12 for LAN, 2x M12 for COM
- 1x Full-size Mini PCIe for expansion
- Support 110V to 240V AC power input by M12 Power Connector
- Fanless Operation from -10°C to 50°C
- Full system IP66/IP69K with Stainless Steel SUS316 construction
- Touch Function ON/OFF Switch
- Scratch-resistant and Wear-resistant 7H Tempered Glass
- Optical Bonding for ultimate clarity
- Pressure Valve SUS316 VENT

1.2 Hardware Specification

Display	SIO-215-J1900	SIO-W215-J1900	SIO-W221-8365UE	SIO-W224-8365UE
LCD Size	15" (4:3)	15.6" (16:9)	21.5" (16:9)	23.8" (16:9)
Max. Resolution	1024 x 768	1920 x 1080 (FHD)	1920 x 1080 (FHD)	1920 x 1080 (FHD)
Brightness (cd/m2)	300	450	350	450
Contrast Ratio	2,500:1	800:1	1,000:1	1,000:1
LCD Color	16.7M	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.297 (H) x 0.297 (V)	0.17925 (H) x .17925 (V)	0.248 (H) x 0.248 (V)	
Viewing Angle (H-V)	88 /88 /88 /88 (Typ.) (CR>=10)	85 /85 /85 /85 (Typ.) (CR>=10)	89 /89 /89 /89 (Typ.) (CR>=10)	
Backlight MTBF	70000 hrs (LED Backlight)	60000 hrs (LED Backlight)	60000 hrs (LED Backlight)	30000 hrs (LED Backlight)

Touch

- **Resistive 5-wire>3H** For SIO-XXXX
- **Projected Capacitive 7H** For SIO-XXXC
- **Touch points:** Resistive Single point
Projected Capacitive 2 point
- **Impact absorption:** Projected Capacitive IK07

System

- **Processor**

J1900	8365UE
Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz	Intel® Core™ i5-8365UE Processor 6M Cache, up to 4.10 GHz

- **System Chipset** SoC integrated
- **LAN Chipset**

J1900	8365UE
• GbE1: Intel® I210-IT (Support Wake-on-LAN and PXE) • GbE2: Intel® I210-IT (Support Wake-on-LAN and PXE)	• GbE1: Intel® I210-IT (Support Wake-on-LAN and PXE) • GbE2: Intel® I219-LM (Support Wake-on-LAN and PXE)

- **Audio Codec** Realtek ALC886
- **System Memory**

J1900	8365UE
• 1x 204-pin DDR3L SODIMM. max up to 8GB (Default 8 GB)	• 1x 260-Pin DDR4 2400MHz SO-DIMM slot, Max 32GB (Default 8 GB)

- **TPM**

J1900	8365UE
• TPM1.2 supported	• TPM 2.0 Through Infineon® SLB9665TT2.0 or Equivalent

Storage

- **mSATA** 128GB mSATA SSD (Default 128 GB)
- **SIM Socket** 1x Internal SIM socket

Expansion

- **Mini PCIe** 1x Full-size Mini PCIe

I/O

- **COM** 2x RS-232/422/485 by M12 A-Code 8-pin
- **USB** 4x USB 2.0 by M12 A-code 8-pin
- **LAN** 2x LAN by M12 X-Code 8-pin
- **Other**
2x WiFi Antenna (Optional)
Power On/Off, Reset
IP68/IP69K SUS 316 Vent

Other Features

- **OSD** Power On/Off, Reset
- **Touch** On/Off switch

Operating System

- **Windows** Windows 10, Windows 7, WES7
- **Linux** Linux kernel 5.X

Power

- **Power Mode** ATX
- **Power Supply Voltage**
110 ~ 240V AC Input
- **Power Connector** M12 S-code 4-pin

Environment

- **Operating Temp**
 - 20°C to 55°C
 - 10°C to 50°C (21.5" and 23.8" only)
- **Storage Temp** -20°C to 70°C
- **Relative Humidity** 10%~80% (non-condensing)
- **Vibration**
 - With SSD: 2.4 Grms, 5 - 500 Hz, 0.5 hr/axis,
 - With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
- **Shock** With SSD: 20G, half sine, 11ms
- **IP Level** Full System IP66/IP69K
- **Standards / Certification** CE, FCC Class A

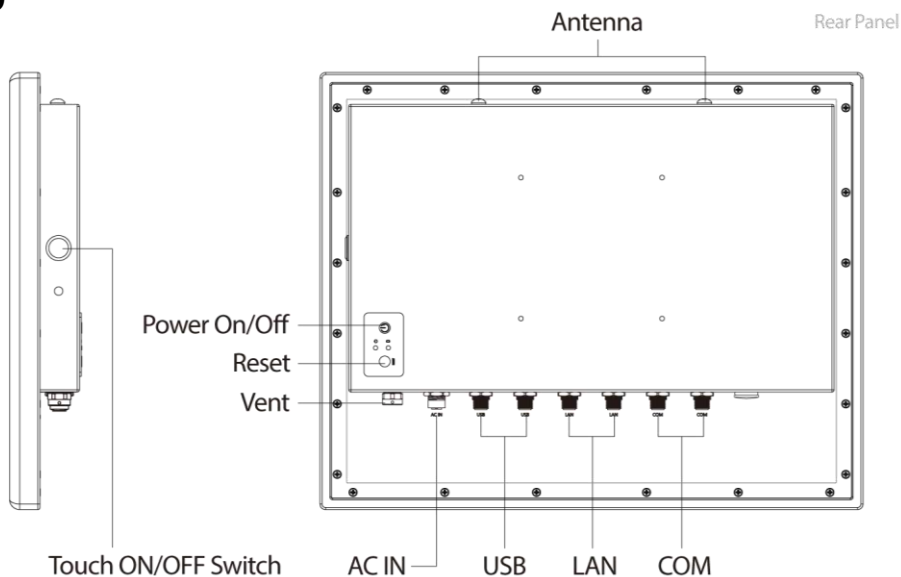
Physical

- **Front Panel Construction**
 - Stainless Steel SUS316 with Optical bonding
- **Dimension**
 - SIO-215 : 385 (W) x 310 (H) x 49.5 (D) mm
 - SIO-W215 : 425 (W) x 276(H) x 49.5 (D) mm
 - SIO-W221 : 588.5 (W) x 380 (H) x 52.8 (D) mm
 - SIO-W224 : 623 (W) x 417 (H) x 54 (D) mm
- **Weight**
 - SIO-215 : 5.96 Kg
 - SIO-W215 : 7.39 Kg
 - SIO-W221 : 8.6 Kg
 - SIO-W224 : 11.7 Kg
- **Mounting**
 - VESA Mounting Holes 100 x 100mm
 - VESA Mounting Holes 200 x 100mm
 - (SIO 21.5" and 23.8" only)
 - Optional Yoke Mount, Panel Mount

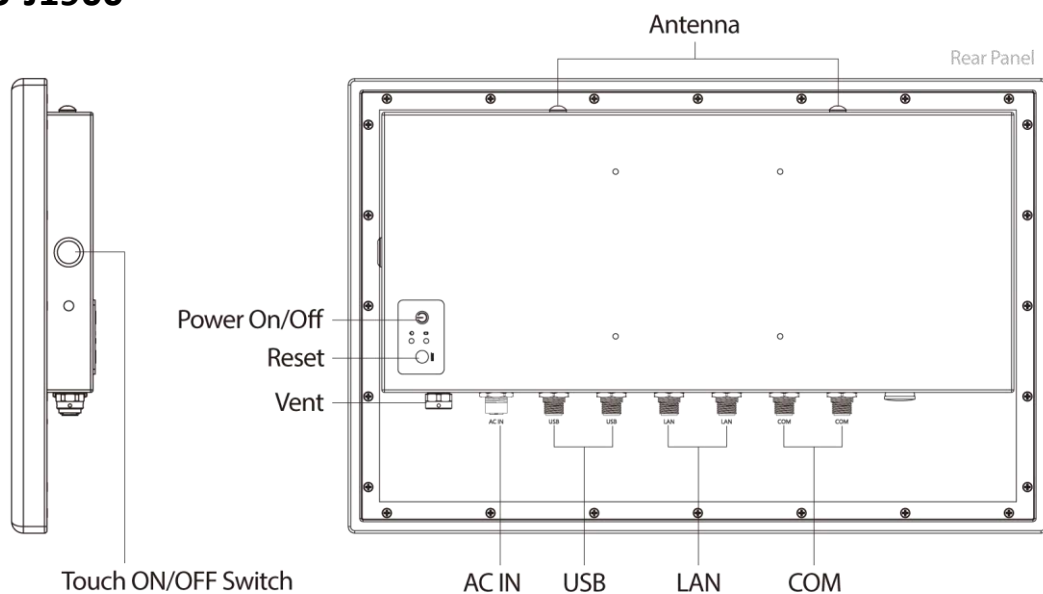
1.3 System I/O

Rear Panel

SIO-215-J1900



SIO-W215-J1900



Power

Power Supply Voltage 110 ~ 240V AC Input by M12 S-Code 4pin

USB

4x USB 2.0 (2 port) by M12 A-code 8-pin

OSD

Power On/Off, Reset

LAN

2x LAN by M12 X-Code 8-pin

COM

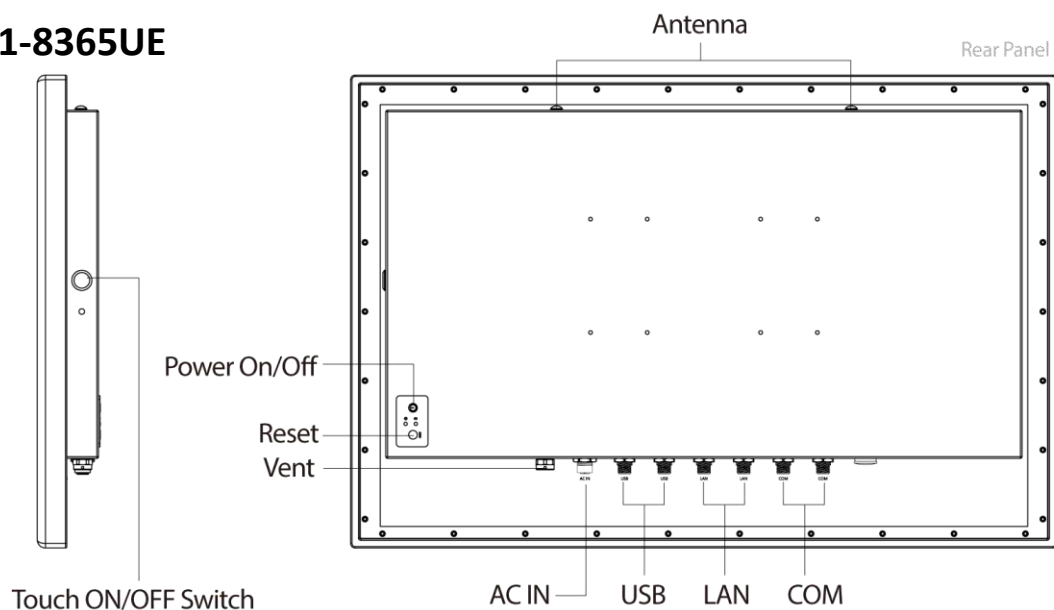
2x RS-232/422/485 by M12 A-Code 8-pin

Touch

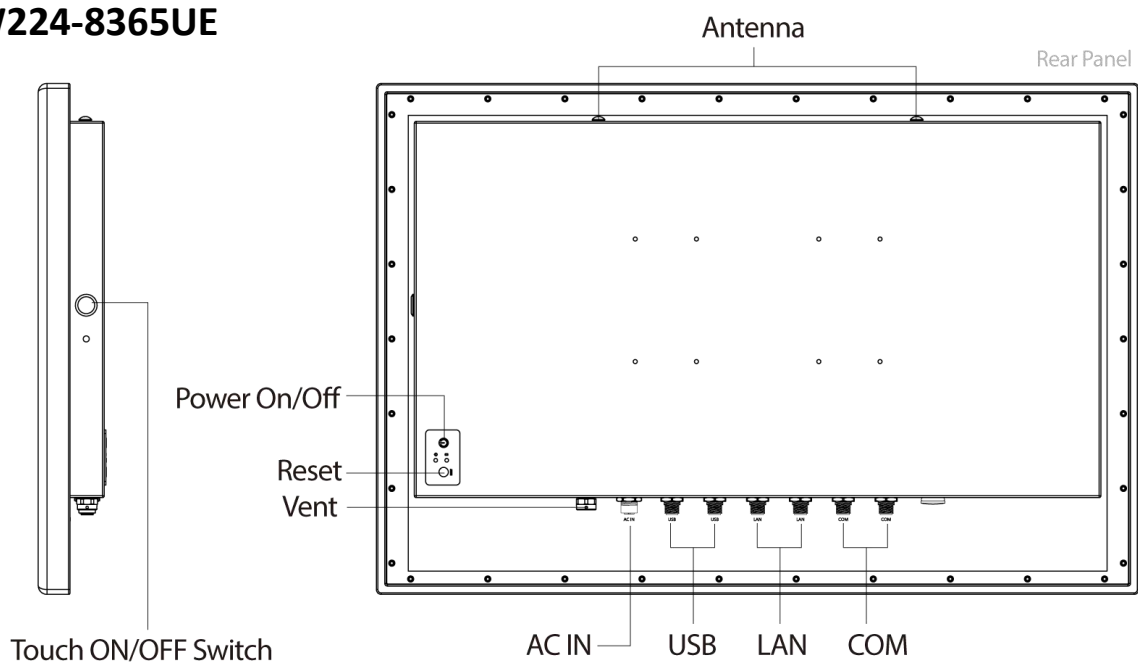
Touch ON/OFF Switch

Rear Panel

SIO-W221-8365UE



SIO-W224-8365UE



Power

Power Supply Voltage 110 ~ 240V AC Input by M12 S-Code 4pin

USB

4x USB 2.0 (2 port) by M12 A-code 8-pin

OSD

Power On/Off, Reset

LAN

2x LAN by M12 X-Code 8-pin

COM

2x RS-232/422/485 by M12 A-Code 8-pin

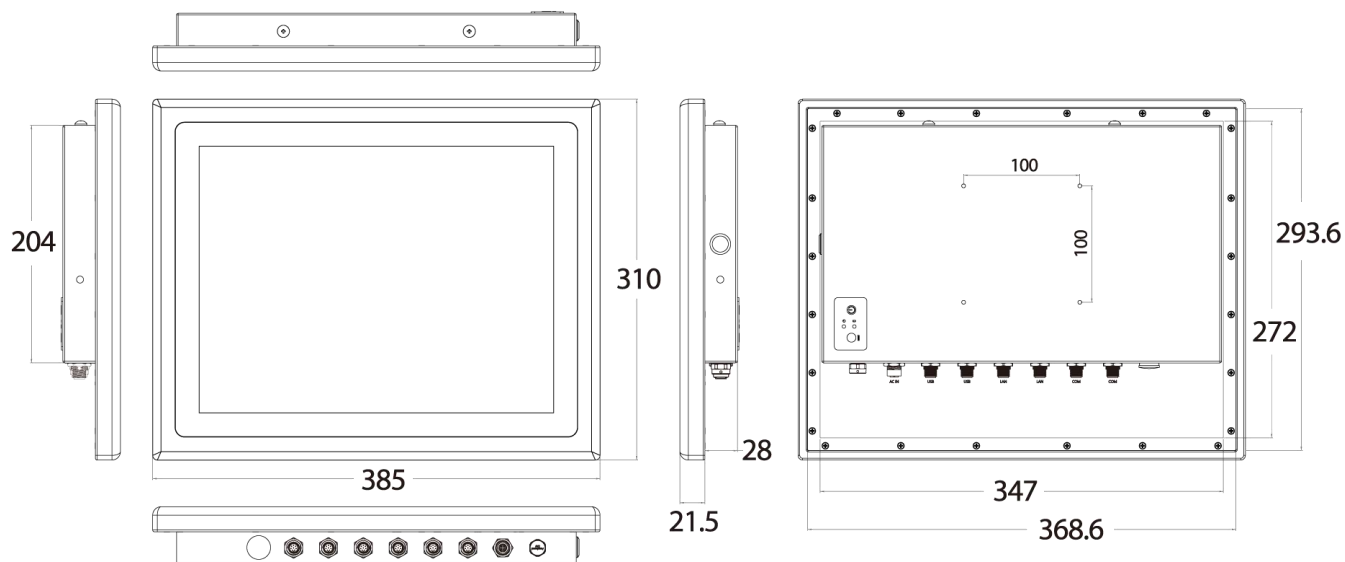
Touch

Touch ON/OFF Switch

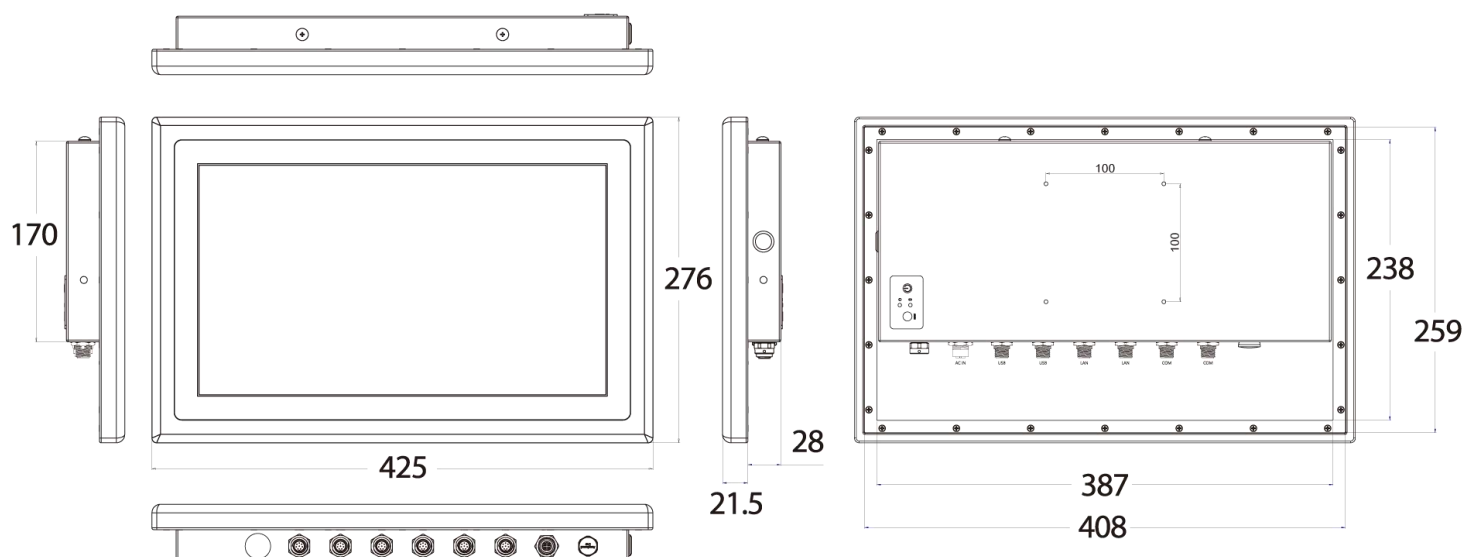
1.4 Mechanical Dimensions

Unit: mm

SIO-215-J1900



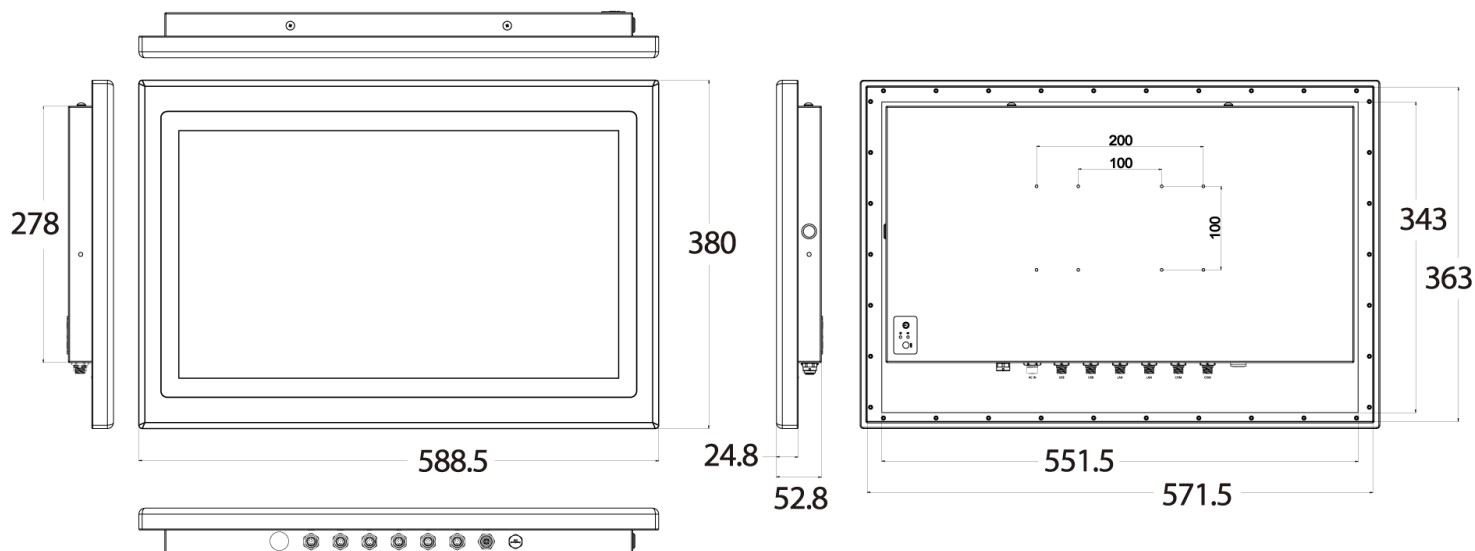
SIO-W215-J1900



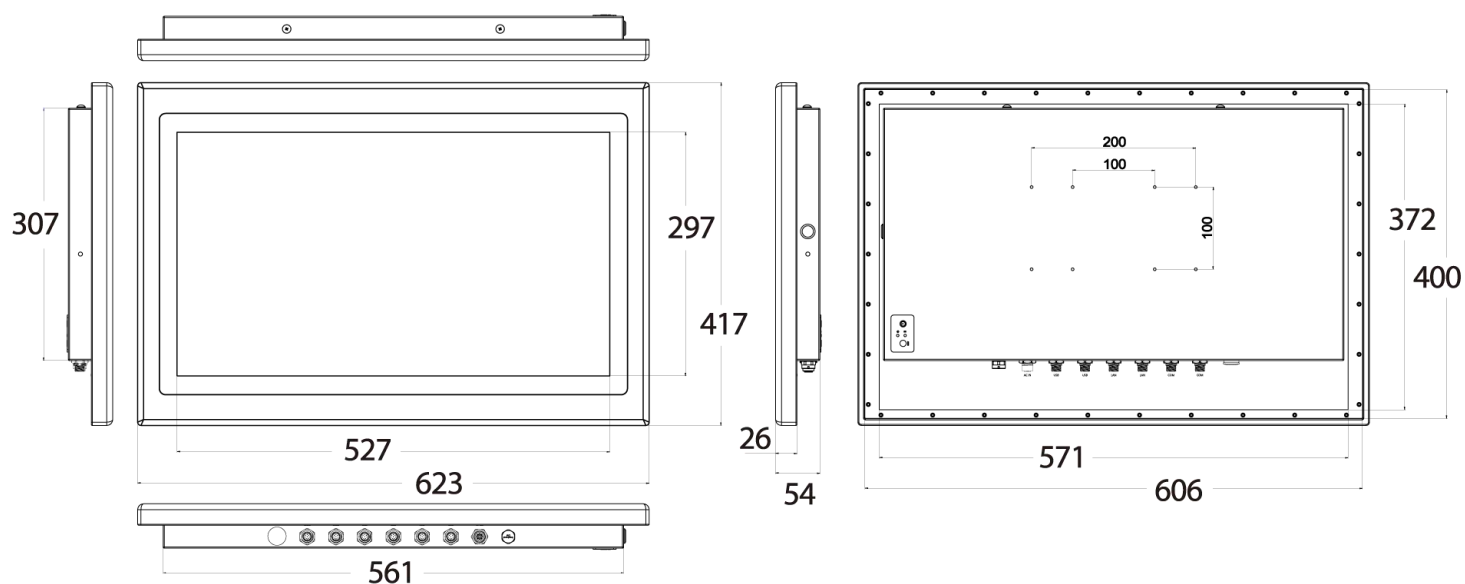
Mechanical Dimensions

SIO-W221-8365UE

Unit: mm



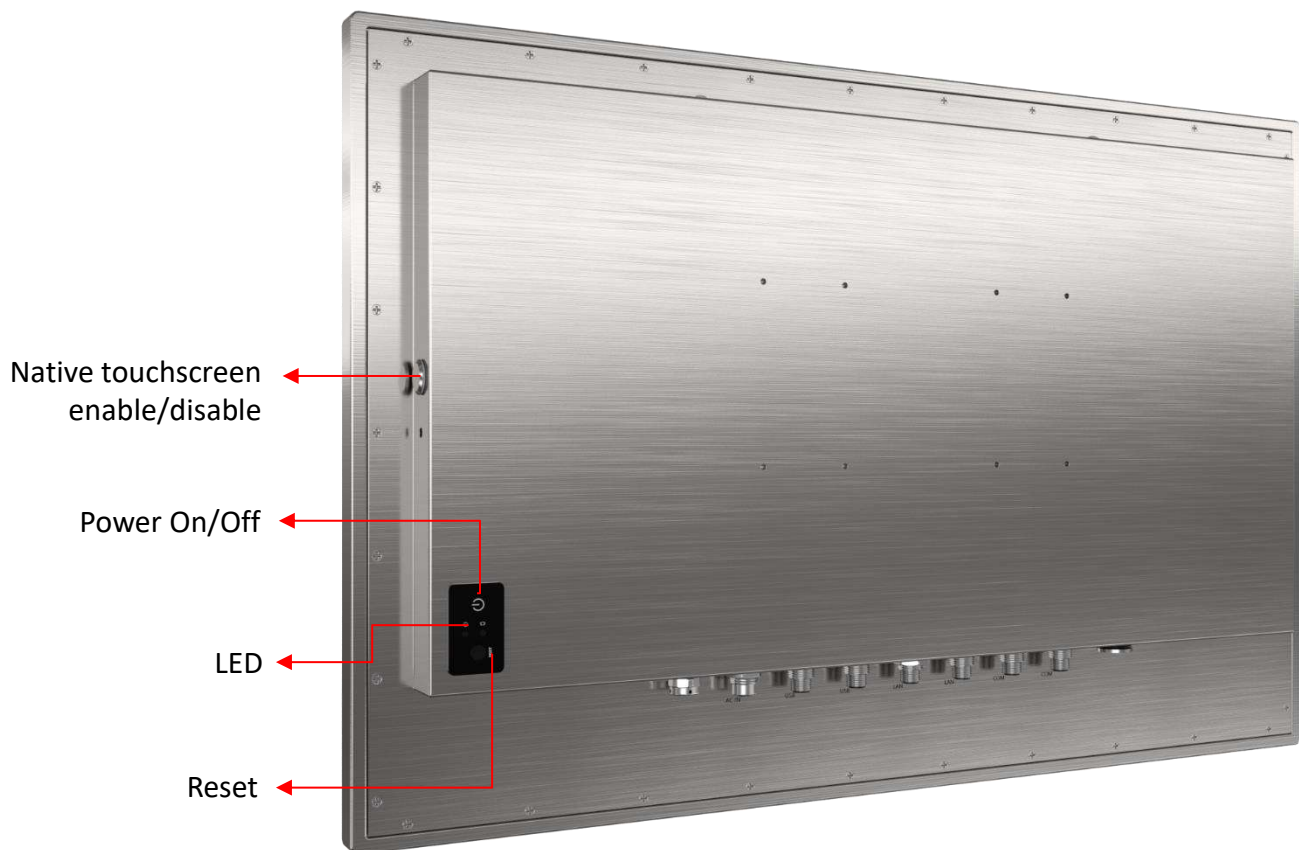
SIO-W224-8365UE



Chapter 2

Front Panel Controls

2.1 Users Controls



2.1.1 Power Button

System power on or off.

2.1.2 LED

1. Yellow indicates power on.
2. Red indicates HDD access status.

2.1.3 Reset Button

Reset system to reboot.

2.1.4 Native touchscreen enable/disable

Native touchscreen enable/disable for safe operation throughout IP69K washdowns during in-line automation.

Chapter 3

BIOS Setup

The BIOS provides an interface to modify the configuration. When the battery is removed, all the parameters will be reset.

Turn on the computer and press to enter the setup screens.

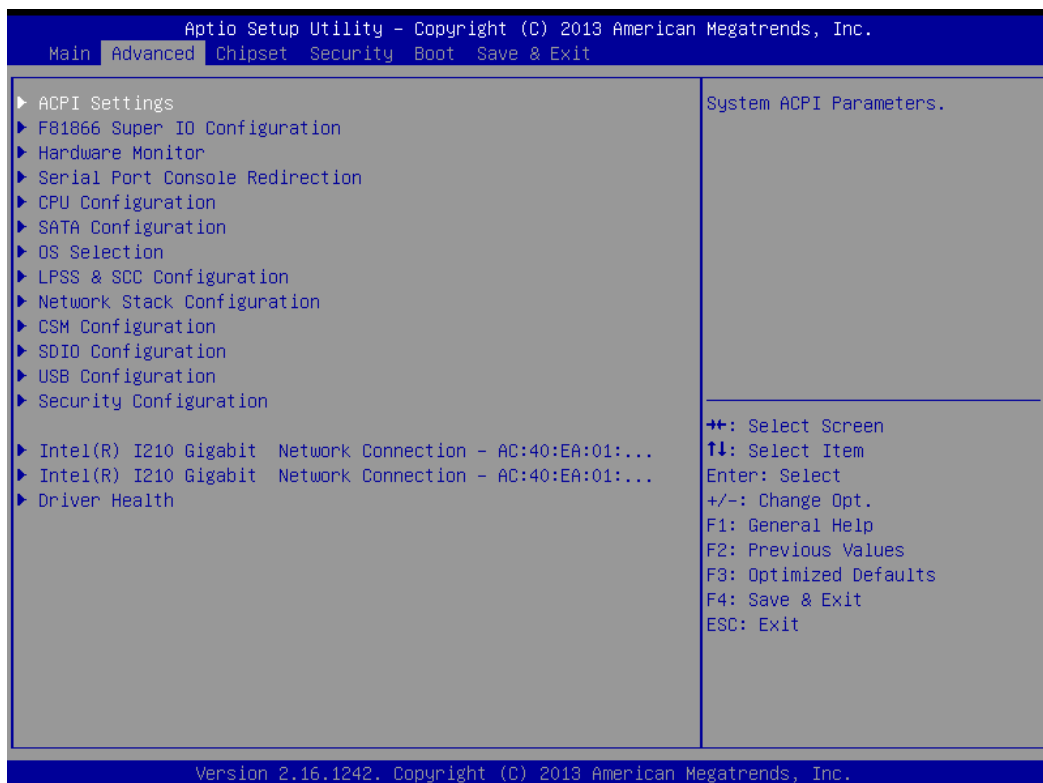


System Date: MM/DD/YYYY

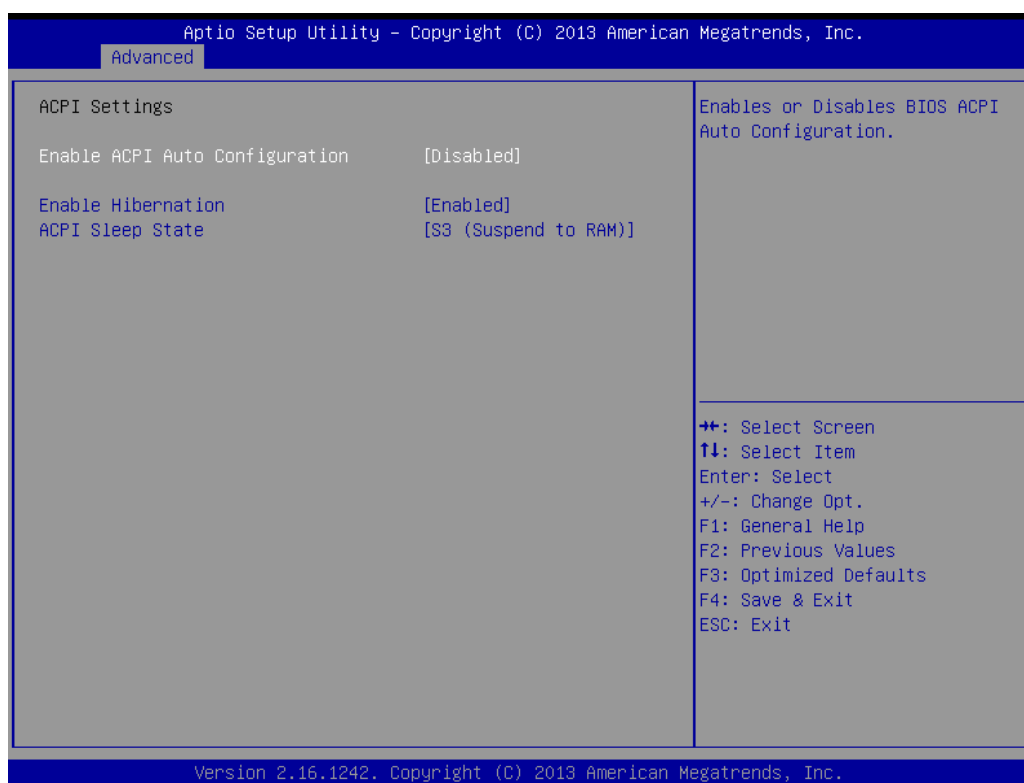
System Time: HH:MM:SS

Use Tab to switch between Date and Time elements.

3.1 BIOS Introduction



3.1.1 ACPI Settings



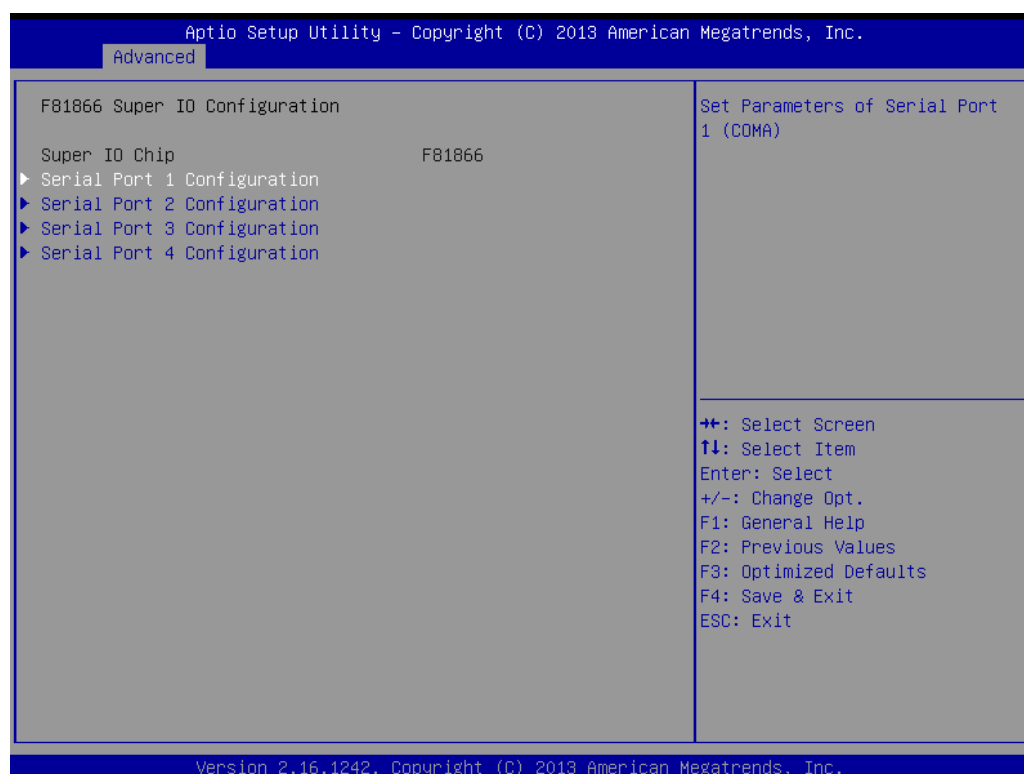
Enable ACPI Auto Configuration: Enables or Disables BIOS ACPI Auto Configuration.

Enable Hibernation: Enable or Disable system ability to Hibernate.

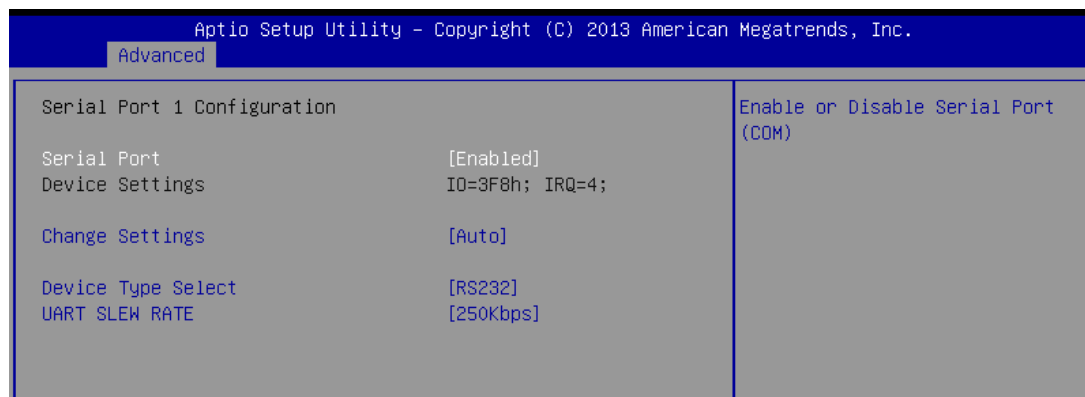
ACPI Sleep state: Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed. Options: Suspend Disable, S3 (Suspend to RAM).

3.1.2 F81866 Super IO Configuration

Enable/disable and configure the serial ports.

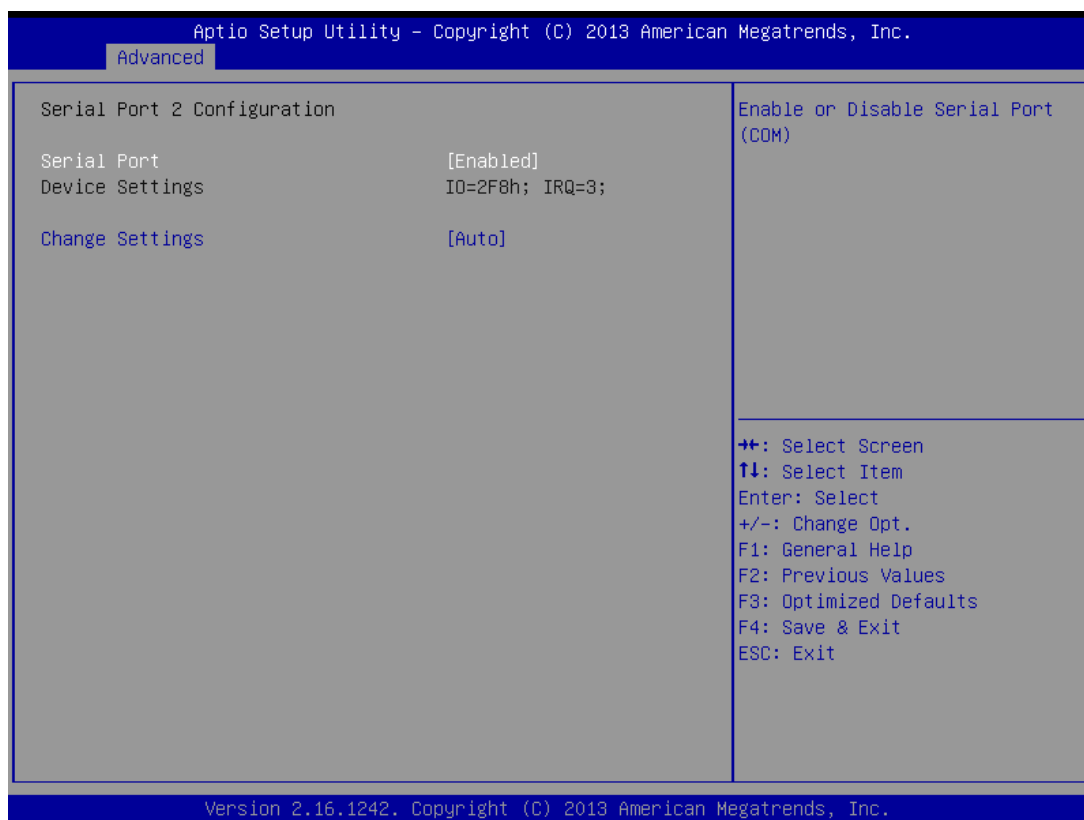


3.1.2.1 Serial Port 1 Configuration

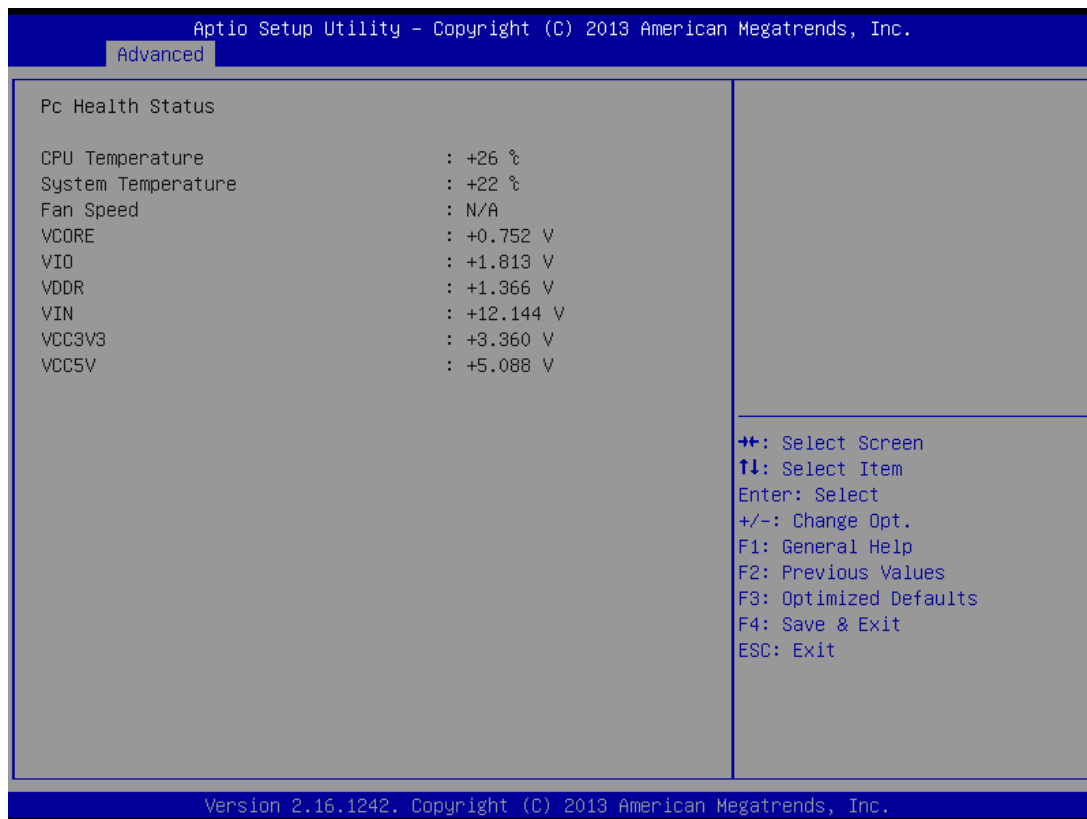


Device Type Select: Choose from RS-232, RS-422 and RS-485.

3.1.2.2 Serial Port 2-4 Configuration

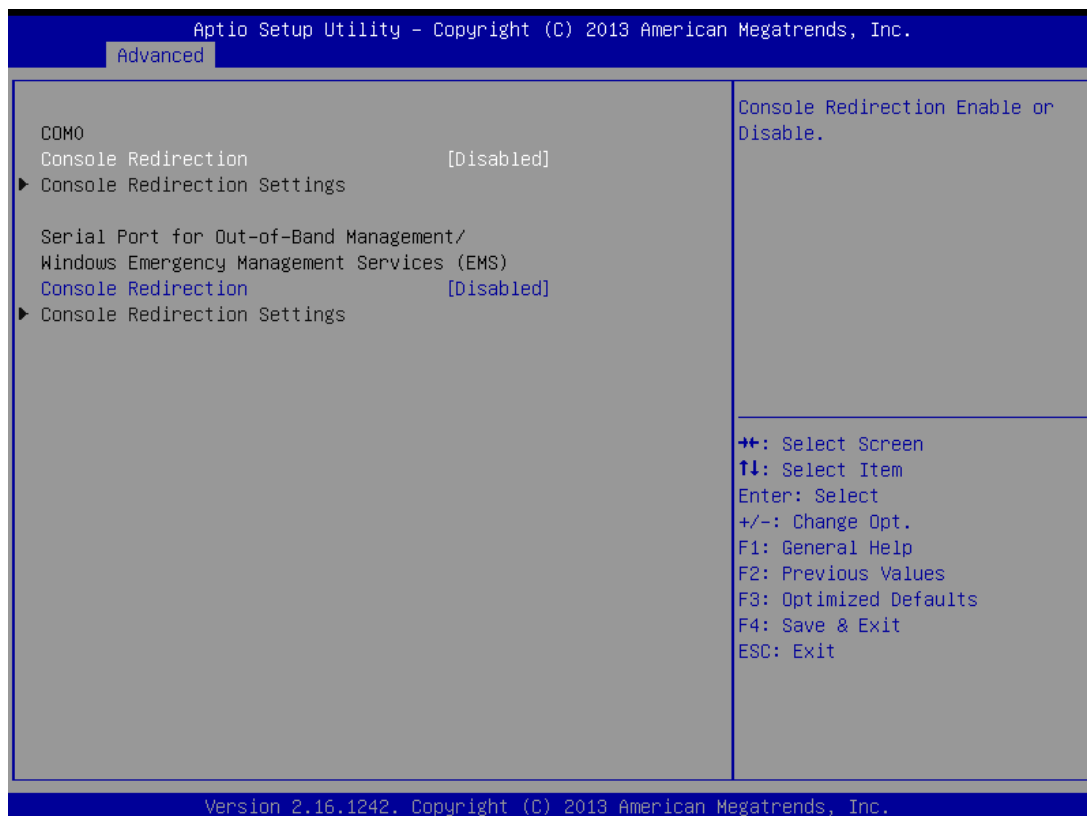


3.1.3 Hardware Monitor

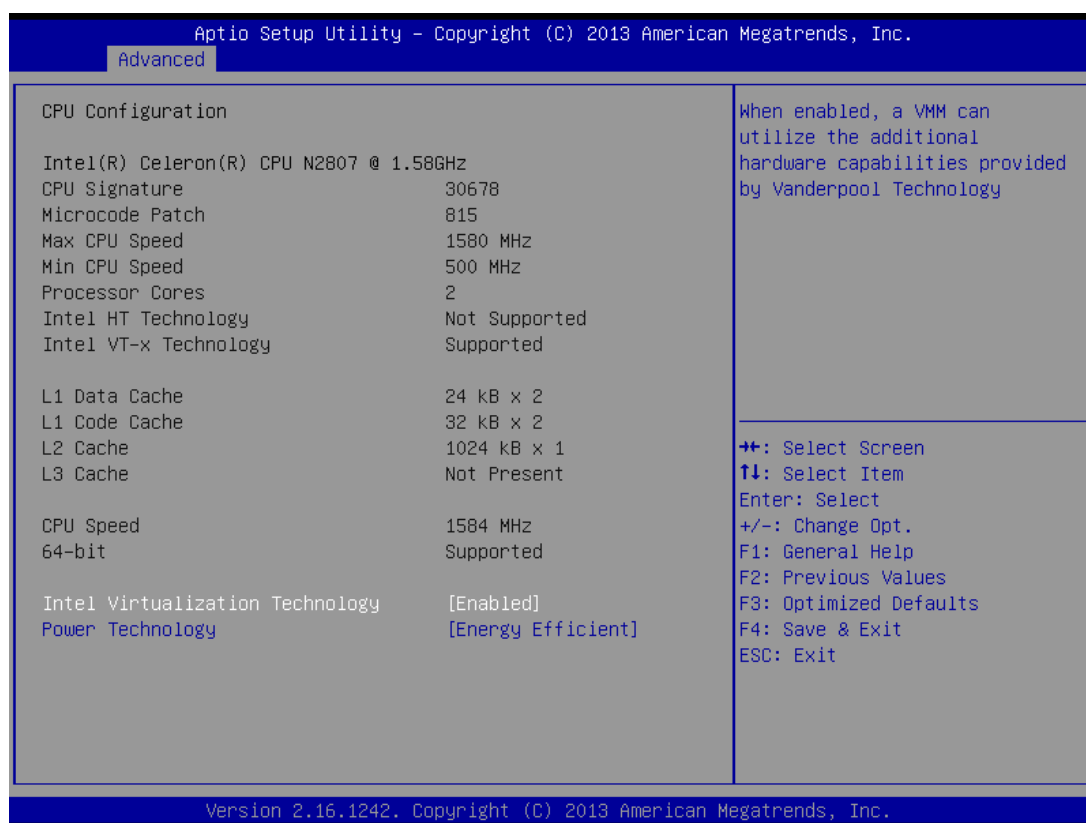


3.1.4 Serial Port Console Redirection

Serial port console redirection settings.



3.1.5 CPU Configuration

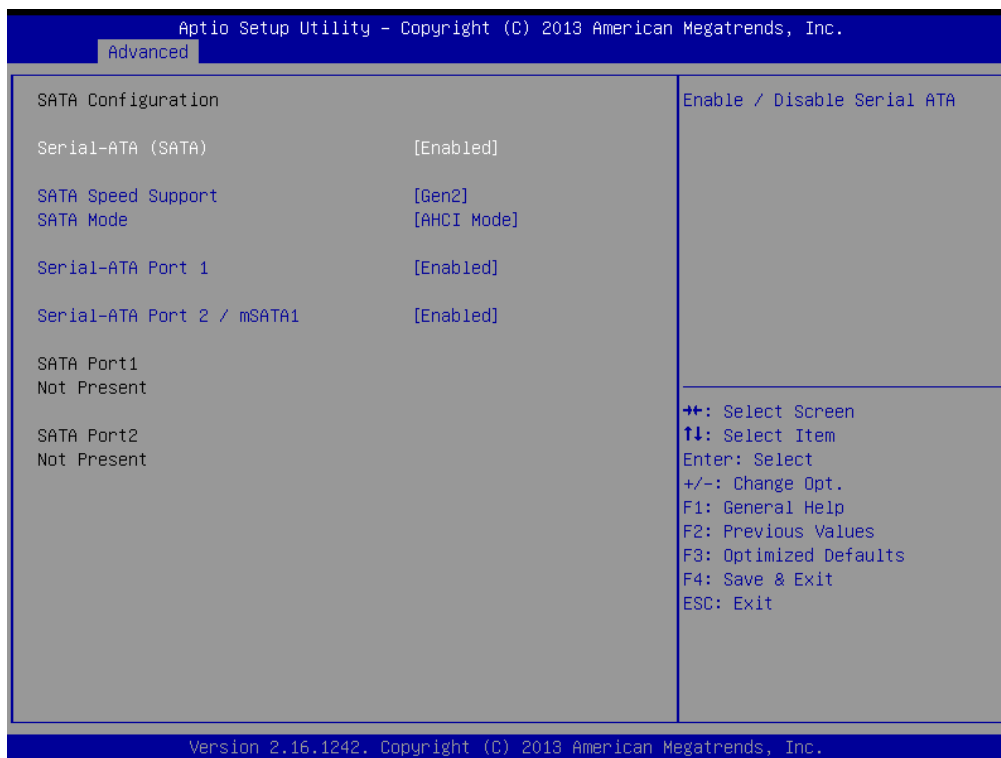


Intel Virtualization Technology: When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology

Power Technology: Configure the power management features.

3.1.6 SATA Configuration

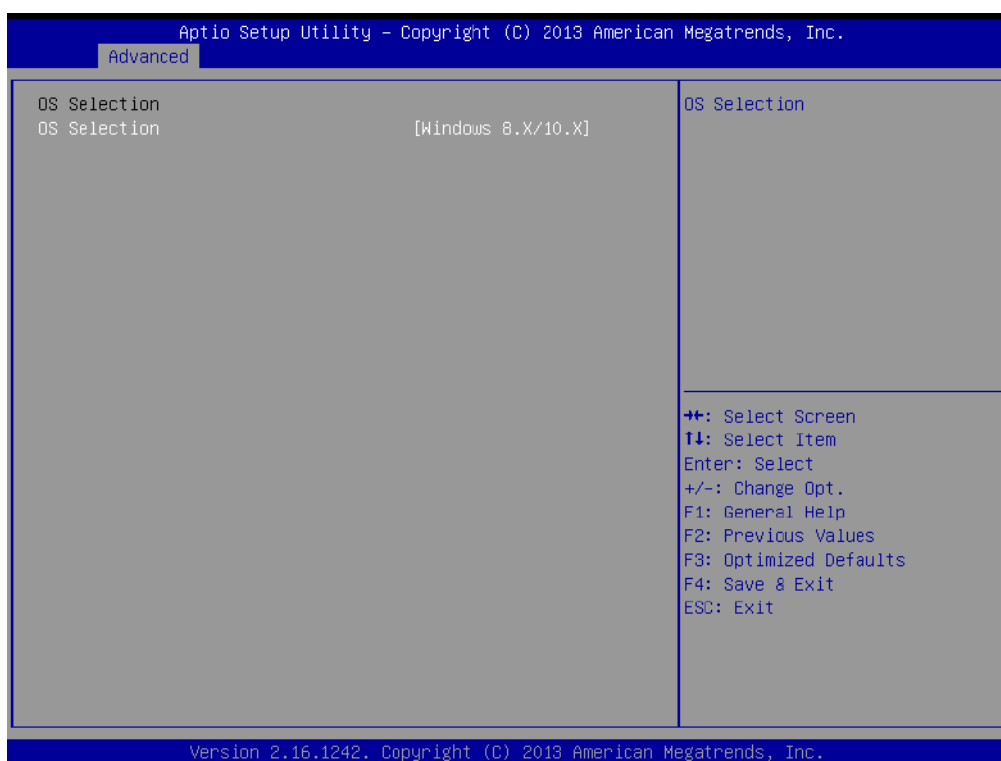
The BIOS automatically detects the presence of SATA device and the hardware installed in the SATA ports will be showed in the configuration. Each port can be enabled or disabled individually.



SATA Speed Support: Options: Gen 1, Gen 2.

SATA Mode: Select IDE or AHCI Mode

3.1.7 Miscellaneous Configuration



OS Selection: Select the OS.

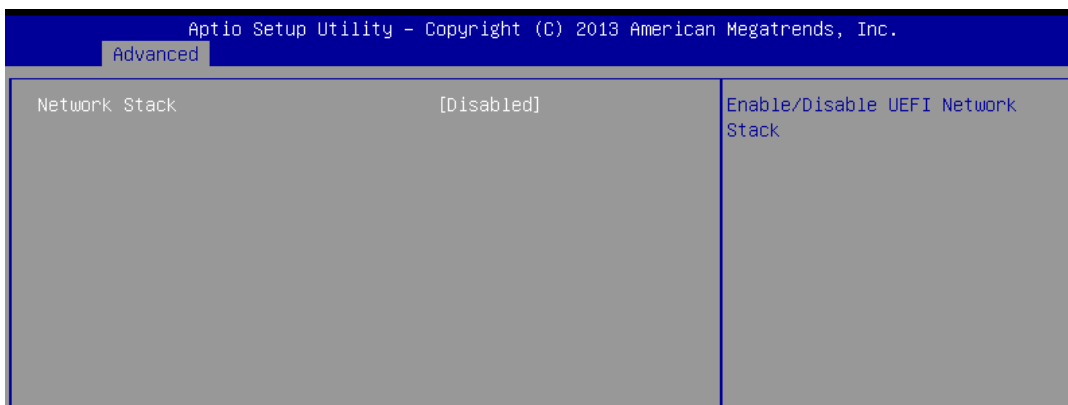
3.1.8 LPSS & SCC Configuration



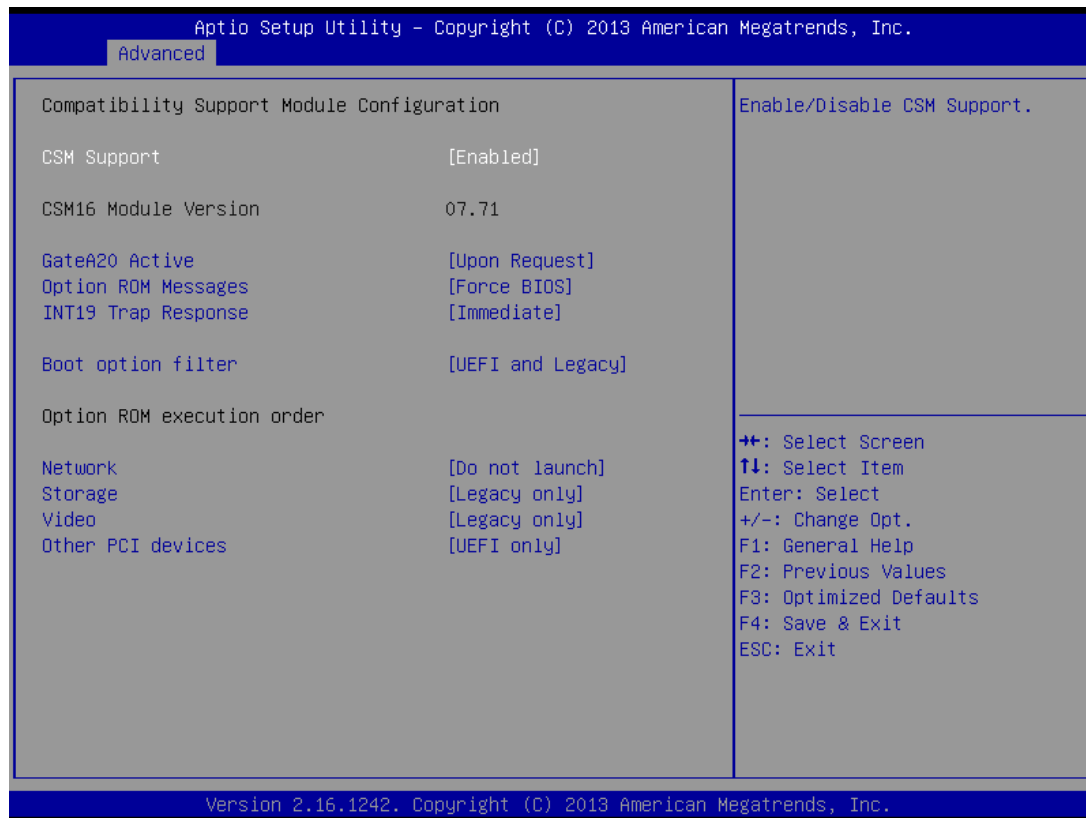
SCC SD Card Support: Options: Disable, Enable.

LPSS I2C #2 Support: Options: Disable, Enable.

3.1.9 Network Stack Configuration



3.1.10 CSM Configuration



GateA20 Active:

[Upon Request] – GA20 can be disabled using BIOS services.

[Always] – do not allow disabling GA20; this option is useful when any RT code is executed above 1MB.

Option ROM Message: Set display mode [Force BIOS] or [Keep Current] for Option ROM.

INT19 Trap Response: BIOS reaction on INT19 trapping by Option ROM: IMMEDIATE – execute the trap right away; POSTPONED – execute the traps during legacy boot.

Boot option filter: This option controls what devices system can boot to [UEFI and Legacy], [Legacy only] or [UEFI only].

Option ROM Execution Order: Controls the execution Option ROM, [Do not launch], [UEFI only] or [Legacy only].

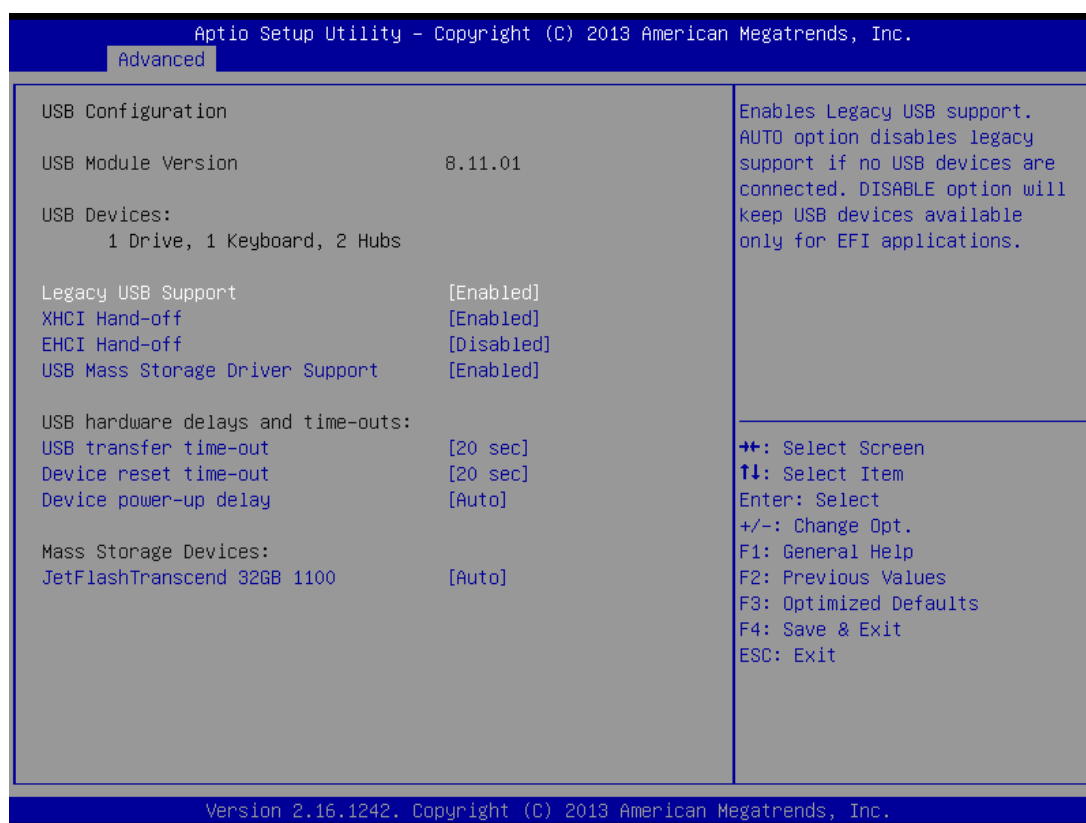
3.1.11 SDIO Configuration

**SDIO Access Mode:**

Auto Option: Access SD device in DMA mode if controller supports it, otherwise in PIO mode. DMA Option: Access SD device in DMA mode.

PIO Option: Access SD device in PIO mode.

3.1.12 USB Configuration



Legacy USB Support: Auto option disables legacy support if no USB devices are connected. Disable option will keep 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.

EHCI Hand-off: This is a workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

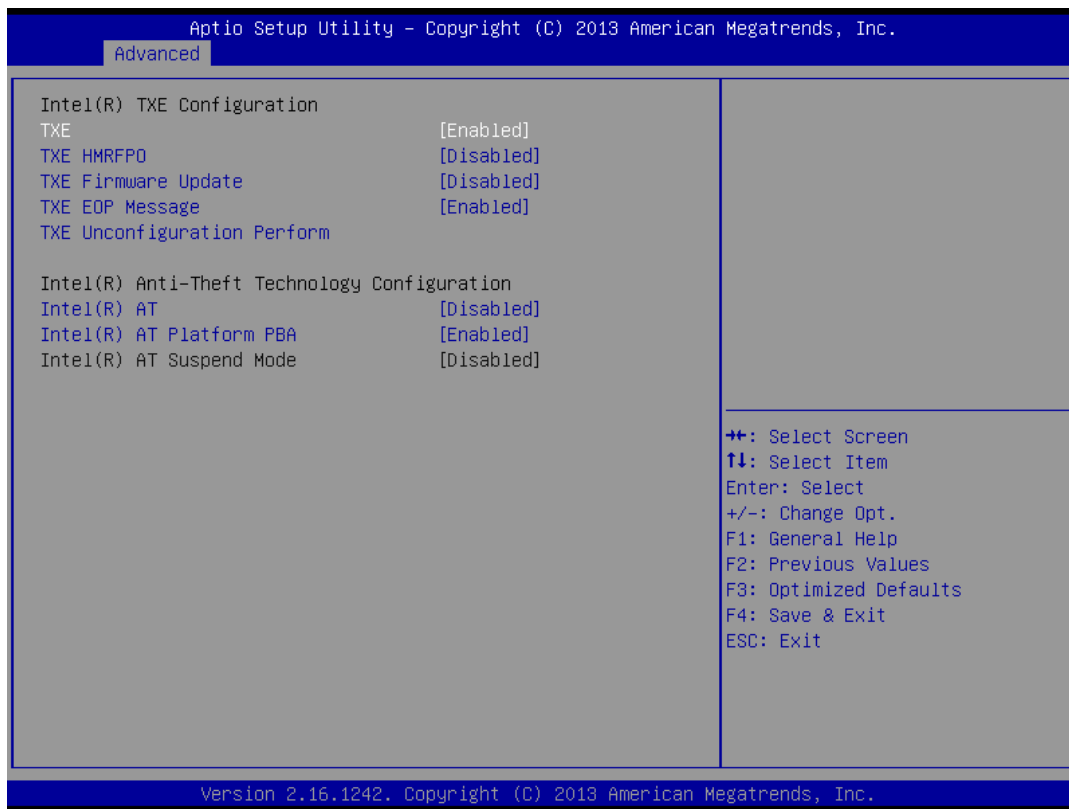
USB Mass Storage Driver Support: Enable/Disable USB Mass Storage Driver Support.

USB transfer time-out: The time-out value for Control, Bulk, and Interrupt transfers.

Device reset time-out: USB mass storage device Start Unit command time-out.

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 100ms, for a Hub port the delay is taken from Hub descriptor.

3.1.13 Security Configuration

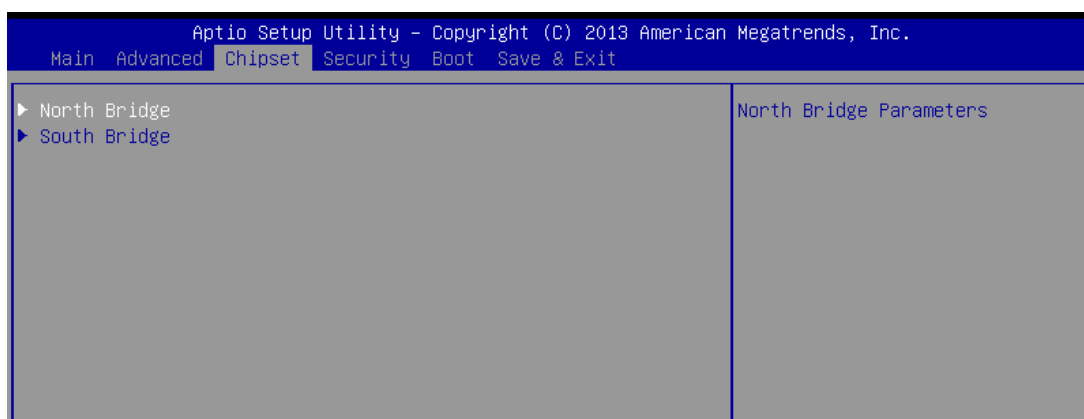


XE EOP Message: Send EOP Message Before Enter OS.

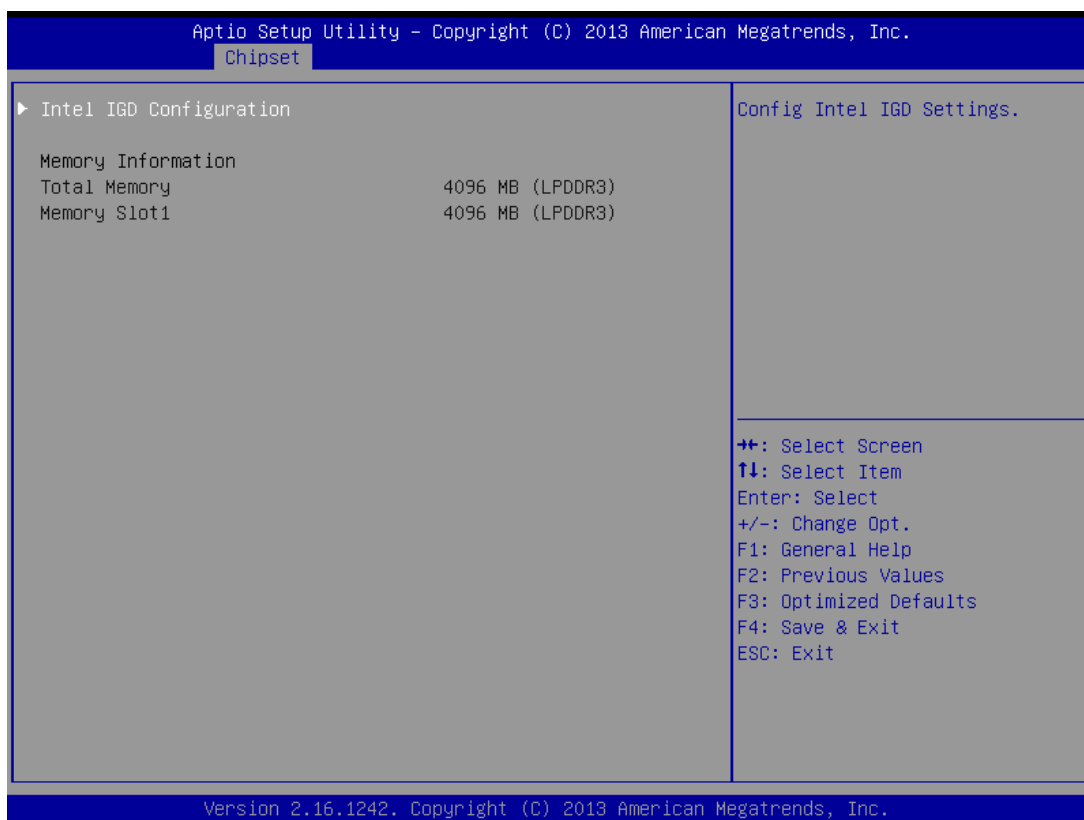
Intel® AT: Enable/Disable BIOS AT Code from Running.

Intel® AT Platform PBA: Enable/Disable BIOS AT Code from Running.

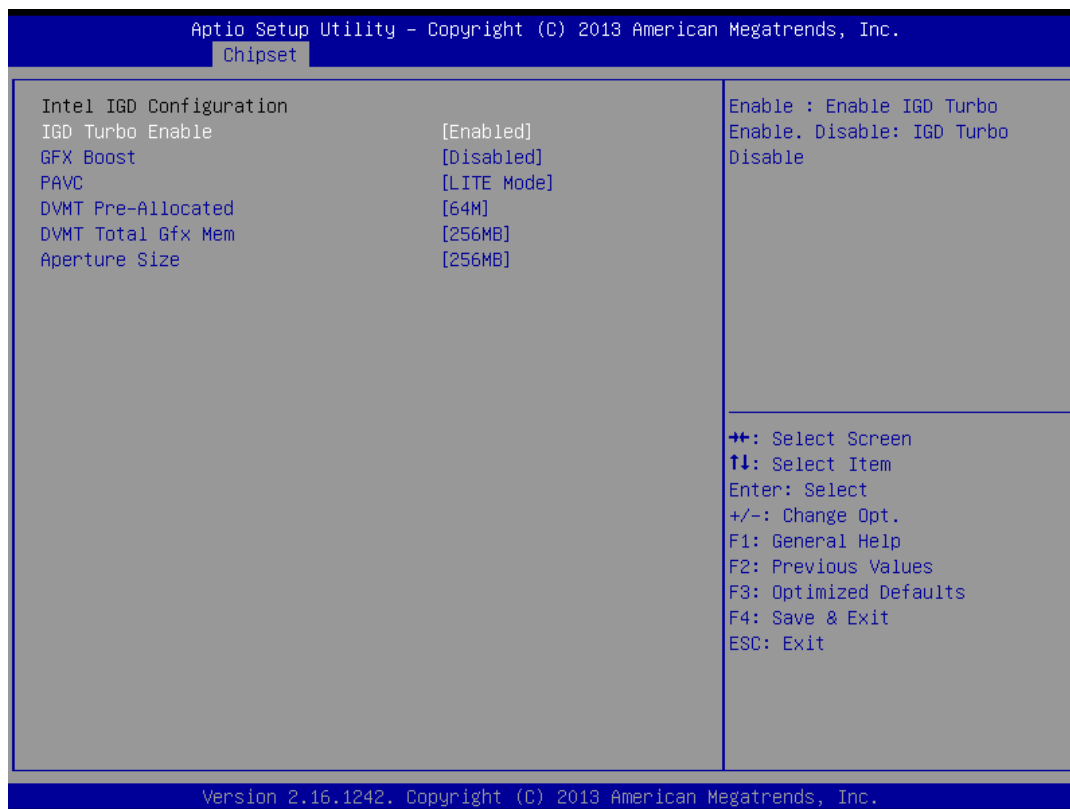
3.2 Chipset



3.2.1 Northbridge Configuration



3.2.1.1 Intel IGD Configuration



IGD Turbo Enable: Enable/Disable: IGD Turbo.

GFX Boost: Enable/Disable GFX Boost.

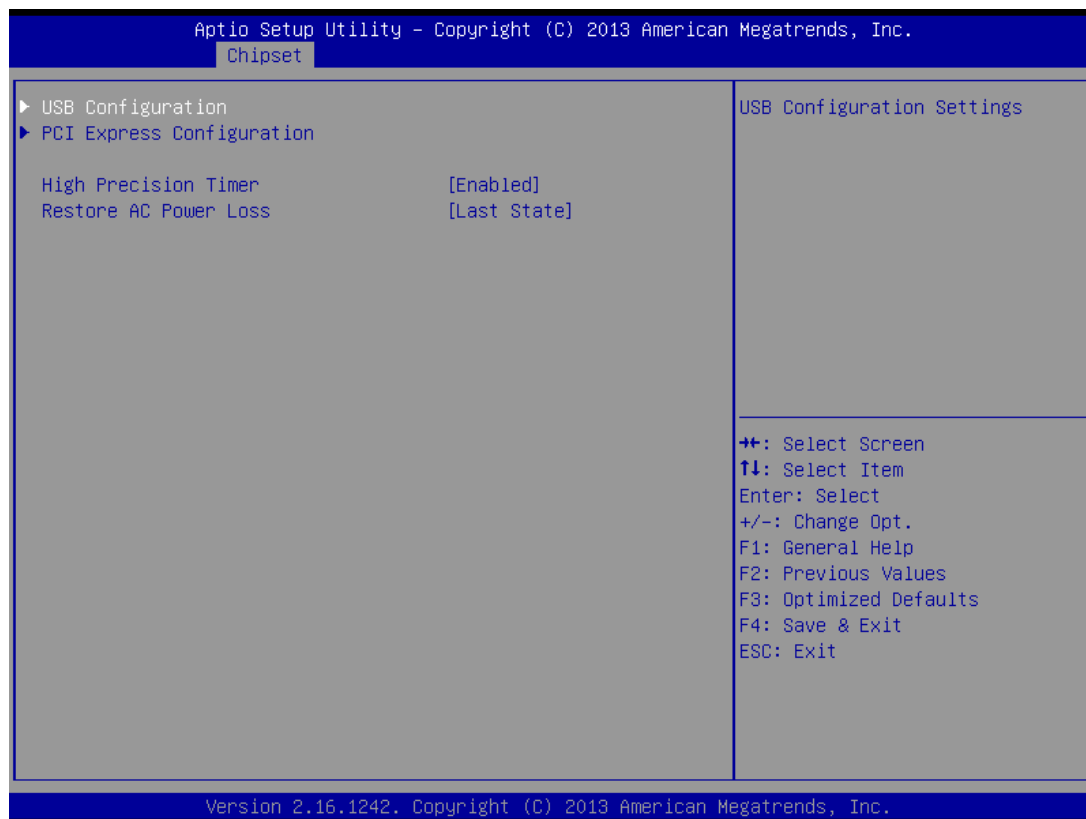
PAVC: Enable/Disable Protected Audio Video Control.

DVMT Pre-Allocated: Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

DVMT Total Gfx Mem: Select DVMT 5.0 Total Graphics Memory size used by the Internal Graphics Device.

Aperture Size: Select the Aperture Size.

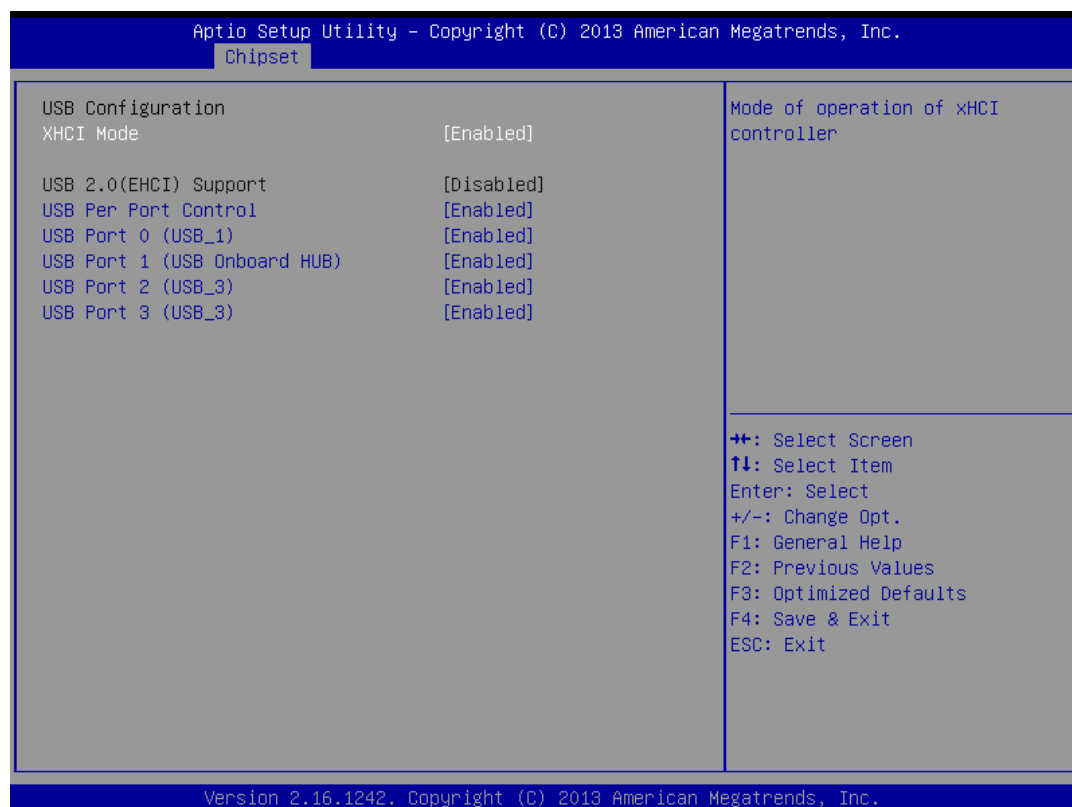
3.2.2 Southbridge Configuration



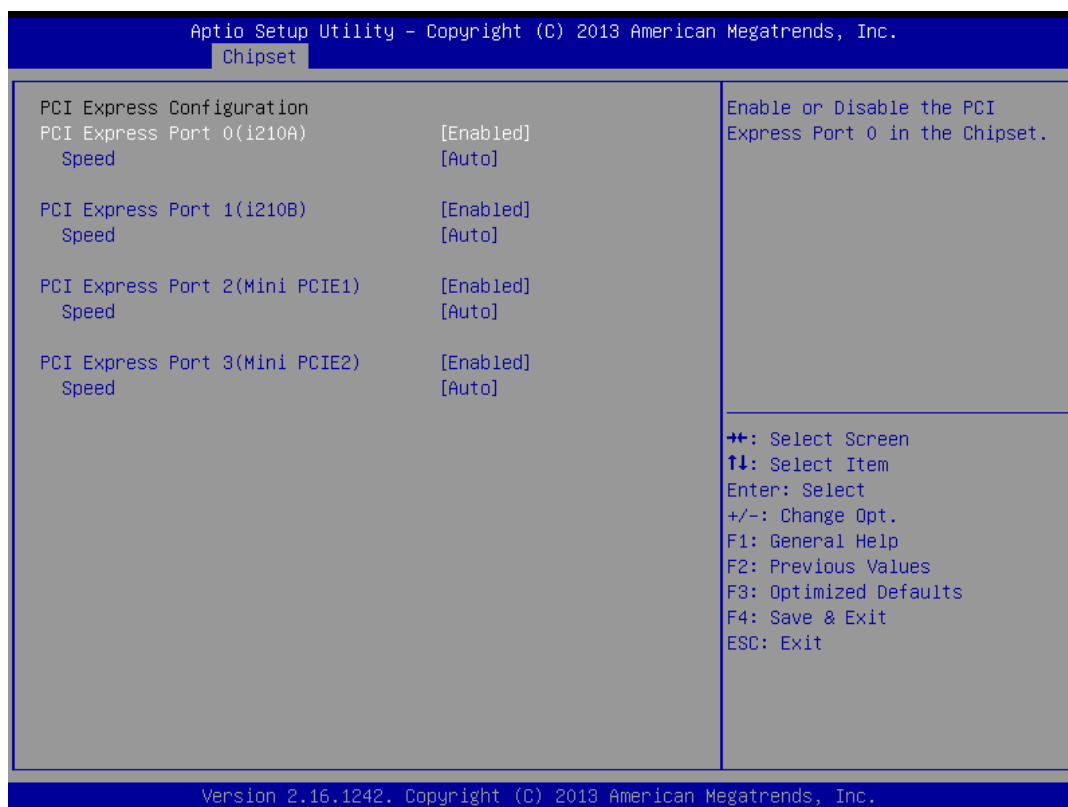
High Precision Timer: Enable or Disable the High Precision Event Timer.

Restore AC Power Loss: Select AC power state when power is re-applied after a power failure.

3.2.2.1 USB Configuration



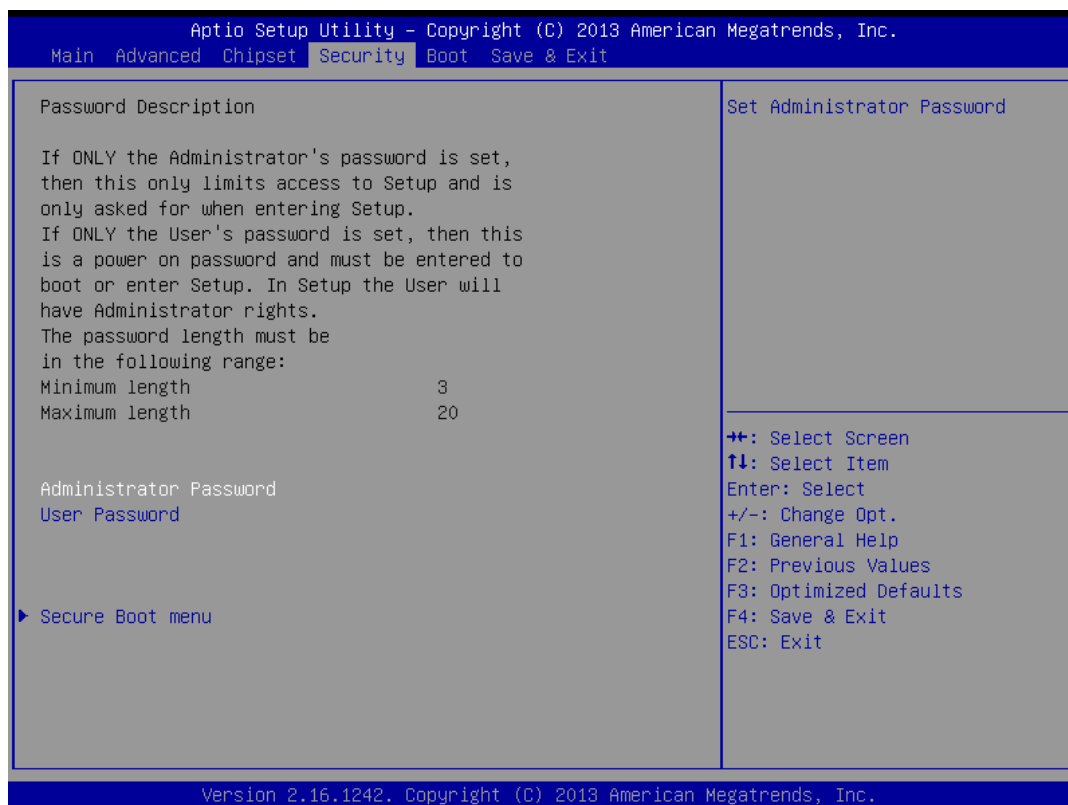
3.2.2.2 PCI Express Configuration



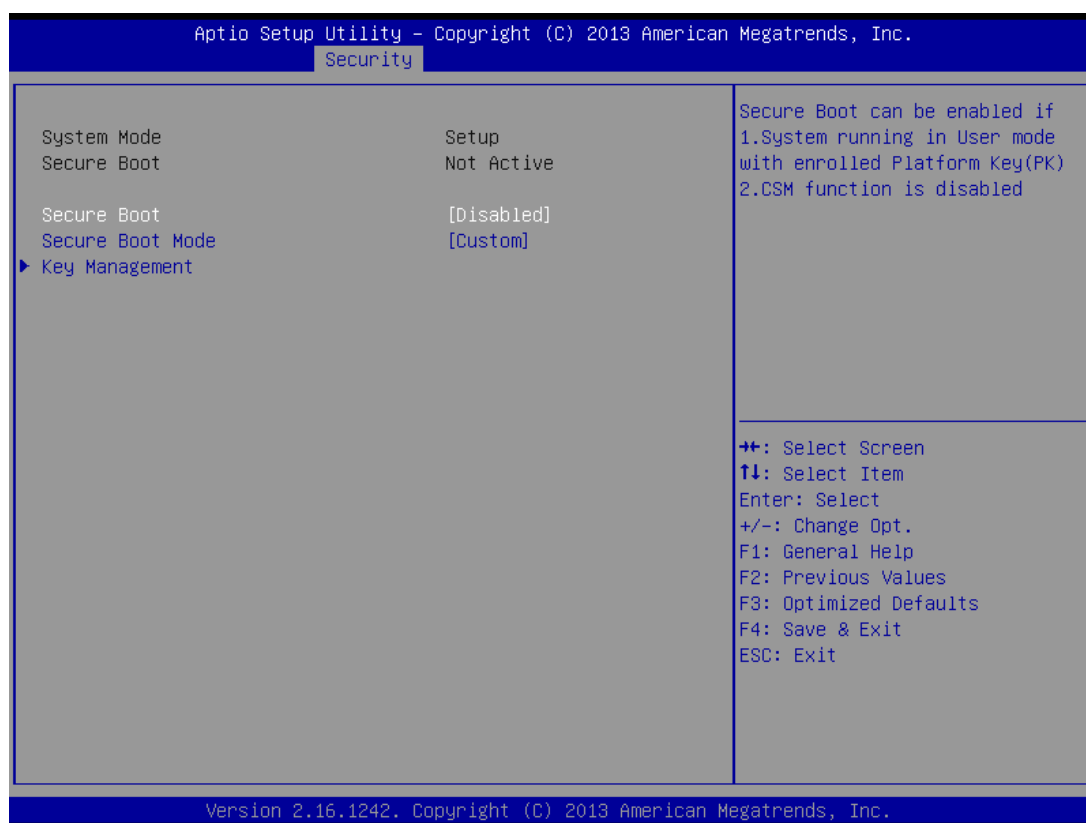
3.3 Security

Administrator's and User's passwords could be set.

If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup. If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup, the user will have administrator rights. The minimum length of the password is 3 and the maximum length is 20.



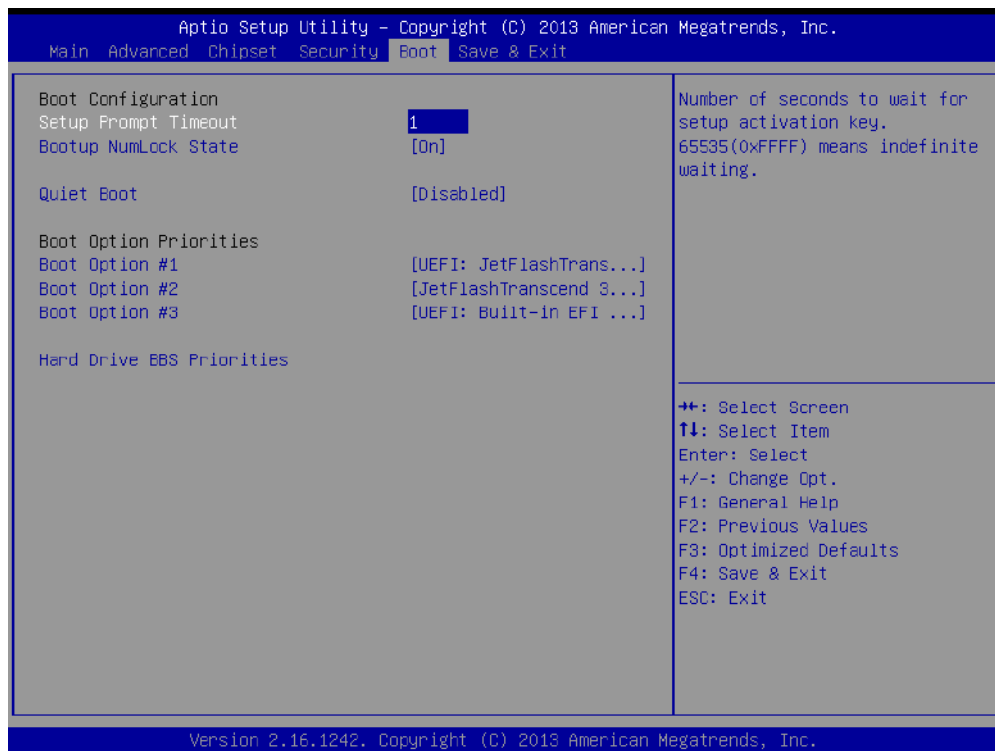
3.3.1 Security Boot Menu



Secure Boot: Secure Boot can be enabled if the System running in User mode with enrolled Platform Key (PK) and CSM function is disabled.

Secure Boot Mode: Secure Boot mode selector. 'Custom' Mode enables users to change Image Execution policy and manage Secure Boot Keys.

3.4 Boot



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

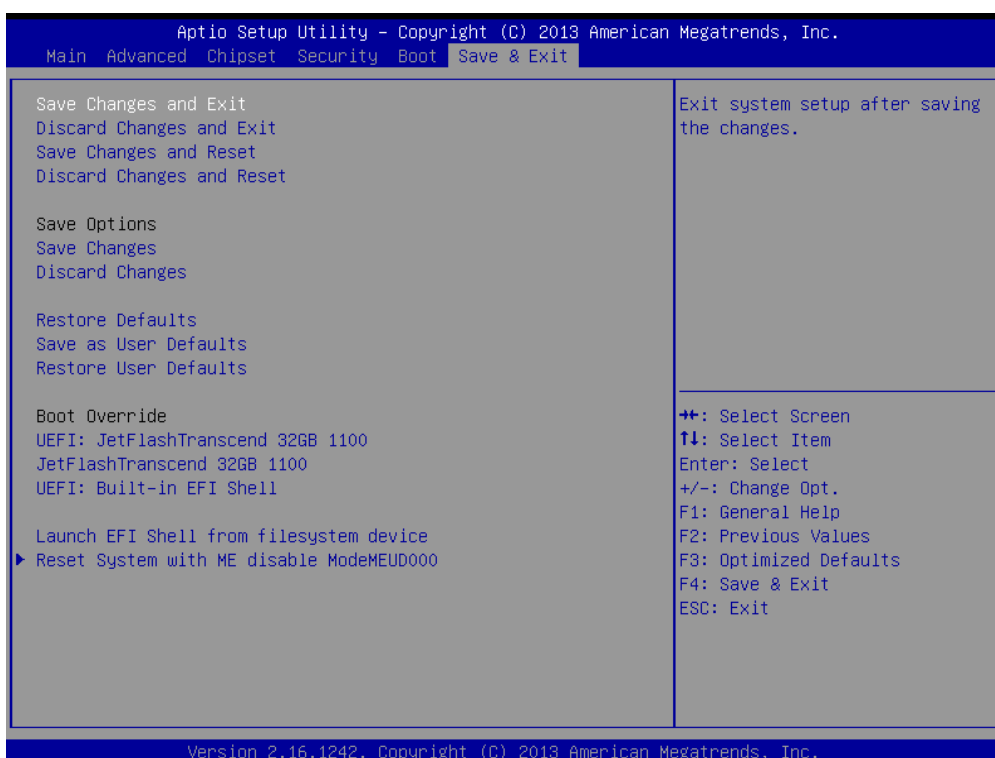
Bootup NumLock State: Select [Enable] or [Disable] for the keyboard NumLock state.

Quiet Boot: Enables or Disables Quiet Boot option.

Boot Order Priorities: Set system boot order.

Hard Drive BBS Priorities: Set the order of the legacy devices in this group.

3.5 Save and Exit



Chapter 4

Address Map

4.1 I/O Port Address Map

The assignments of the I/O port addresses for the CT-DBT0x under Windows® 7 Ultimate 64-bit are shown below.

Input/output (IO)	
[0000000000000000 - 000000000000006F]	PCI Express Root Complex
[0000000000000020 - 0000000000000021]	Programmable interrupt controller
[0000000000000020 - 0000000000000021]	Programmable interrupt controller
[0000000000000020 - 0000000000000021]	Programmable interrupt controller
[0000000000000024 - 0000000000000025]	Programmable interrupt controller
[0000000000000024 - 0000000000000025]	Programmable interrupt controller
[0000000000000024 - 0000000000000025]	Programmable interrupt controller
[0000000000000028 - 0000000000000029]	Programmable interrupt controller
[0000000000000028 - 0000000000000029]	Programmable interrupt controller
[0000000000000028 - 0000000000000029]	Programmable interrupt controller
[000000000000002C - 000000000000002D]	Programmable interrupt controller
[000000000000002C - 000000000000002D]	Programmable interrupt controller
[000000000000002C - 000000000000002D]	Programmable interrupt controller
[0000000000000030 - 0000000000000031]	Programmable interrupt controller
[0000000000000030 - 0000000000000031]	Programmable interrupt controller
[0000000000000030 - 0000000000000031]	Programmable interrupt controller
[0000000000000034 - 0000000000000035]	Programmable interrupt controller
[0000000000000034 - 0000000000000035]	Programmable interrupt controller
[0000000000000034 - 0000000000000035]	Programmable interrupt controller
[0000000000000038 - 0000000000000039]	Programmable interrupt controller
[0000000000000038 - 0000000000000039]	Programmable interrupt controller
[0000000000000038 - 0000000000000039]	Programmable interrupt controller
[000000000000003C - 000000000000003D]	Programmable interrupt controller
[000000000000003C - 000000000000003D]	Programmable interrupt controller
[000000000000003C - 000000000000003D]	Programmable interrupt controller
[0000000000000040 - 0000000000000043]	System timer
[0000000000000040 - 0000000000000043]	System timer
[0000000000000040 - 0000000000000043]	System timer
[000000000000004E - 000000000000004F]	Motherboard resources
[0000000000000050 - 0000000000000053]	System timer
[0000000000000050 - 0000000000000053]	System timer
[0000000000000050 - 0000000000000053]	System timer
[0000000000000060 - 0000000000000060]	Standard PS/2 Keyboard
[0000000000000061 - 0000000000000061]	Motherboard resources
[0000000000000063 - 0000000000000063]	Motherboard resources
[0000000000000064 - 0000000000000064]	Standard PS/2 Keyboard
[0000000000000065 - 0000000000000065]	Motherboard resources
[0000000000000067 - 0000000000000067]	Motherboard resources
[0000000000000070 - 0000000000000070]	Motherboard resources
[0000000000000070 - 0000000000000077]	System CMOS/real time clock
[0000000000000078 - 00000000000000CF]	PCI Express Root Complex
[0000000000000080 - 000000000000008F]	Motherboard resources
[0000000000000092 - 0000000000000092]	Motherboard resources
[00000000000000A0 - 00000000000000A1]	Programmable interrupt controller
[00000000000000A0 - 00000000000000A1]	Programmable interrupt controller
[00000000000000A0 - 00000000000000A1]	Programmable interrupt controller
[00000000000000A4 - 00000000000000A5]	Programmable interrupt controller
[00000000000000A4 - 00000000000000A5]	Programmable interrupt controller
[00000000000000A4 - 00000000000000A5]	Programmable interrupt controller
[00000000000000A8 - 00000000000000A9]	Programmable interrupt controller

I/O Port Address Map (cont'd)

	[000000000000A8 - 000000000000A9]	Programmable interrupt controller
	[000000000000AC - 000000000000AD]	Programmable interrupt controller
	[000000000000AC - 000000000000AD]	Programmable interrupt controller
	[000000000000AC - 000000000000AD]	Programmable interrupt controller
	[000000000000B0 - 000000000000B1]	Programmable interrupt controller
	[000000000000B0 - 000000000000B1]	Programmable interrupt controller
	[000000000000B0 - 000000000000B1]	Programmable interrupt controller
	[000000000000B2 - 000000000000B3]	Motherboard resources
	[000000000000B4 - 000000000000B5]	Programmable interrupt controller
	[000000000000B4 - 000000000000B5]	Programmable interrupt controller
	[000000000000B4 - 000000000000B5]	Programmable interrupt controller
	[000000000000B8 - 000000000000B9]	Programmable interrupt controller
	[000000000000B8 - 000000000000B9]	Programmable interrupt controller
	[000000000000B8 - 000000000000B9]	Programmable interrupt controller
	[000000000000BC - 000000000000BD]	Programmable interrupt controller
	[000000000000BC - 000000000000BD]	Programmable interrupt controller
	[000000000000BC - 000000000000BD]	Programmable interrupt controller
	[000000000000E8 - 000000000000EF]	Communications Port (COM4)
	[000000000000F8 - 000000000000FF]	Communications Port (COM2)
	[0000000000003B0 - 0000000000003BB]	Intel(R) HD Graphics
	[0000000000003C0 - 0000000000003DF]	Intel(R) HD Graphics
	[0000000000003E8 - 0000000000003EF]	Communications Port (COM3)
	[0000000000003F8 - 0000000000003FF]	Communications Port (COM1)
	[000000000000400 - 00000000000047F]	Motherboard resources
	[0000000000004D0 - 0000000000004D1]	Programmable interrupt controller
	[0000000000004D0 - 0000000000004D1]	Programmable interrupt controller
	[0000000000004D0 - 0000000000004D1]	Programmable interrupt controller
	[000000000000500 - 0000000000005FE]	Motherboard resources
	[000000000000680 - 00000000000069F]	Motherboard resources
	[000000000000A00 - 000000000000A0F]	Motherboard resources
	[000000000000A10 - 000000000000A1F]	Motherboard resources
	[000000000000A20 - 000000000000A2F]	Motherboard resources
	[000000000000D00 - 000000000000FFF]	PCI Express Root Complex
	[000000000000C000 - 000000000000C01F]	Intel(R) I210 Gigabit Network Connection
	[000000000000C000 - 000000000000C01F]	Intel(R) I210 Gigabit Network Connection #3
	[000000000000C000 - 000000000000CFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 2 - 0F4A
	[000000000000C000 - 000000000000CFFF]	PCI standard PCI-to-PCI bridge
	[000000000000C000 - 000000000000CFFF]	PCI standard PCI-to-PCI bridge
	[000000000000D000 - 000000000000D01F]	Intel(R) I210 Gigabit Network Connection #2
	[000000000000D000 - 000000000000D01F]	Intel(R) I210 Gigabit Network Connection #4
	[000000000000D000 - 000000000000DFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 1 - 0F48
	[000000000000D000 - 000000000000DFFF]	PCI standard PCI-to-PCI bridge
	[000000000000D000 - 000000000000DFFF]	PCI standard PCI-to-PCI bridge
	[000000000000E000 - 000000000000E01F]	Intel Device
	[000000000000E000 - 000000000000E01F]	Intel Device
	[000000000000E000 - 000000000000E01F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor Platform Control Unit - SMBus Port - 0F12
	[000000000000E020 - 000000000000E03F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E020 - 000000000000E03F]	Standard SATA AHCI Controller
	[000000000000E020 - 000000000000E03F]	Standard SATA AHCI Controller
	[000000000000E040 - 000000000000E043]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[0000000000000BC - 0000000000000BD]	Programmable interrupt controller
	[0000000000000BC - 0000000000000BD]	Programmable interrupt controller
	[0000000000000E8 - 0000000000000EF]	Communications Port (COM4)
	[0000000000000F8 - 0000000000000FF]	Communications Port (COM2)
	[00000000000003B0 - 00000000000003BB]	Intel(R) HD Graphics
	[00000000000003C0 - 00000000000003DF]	Intel(R) HD Graphics
	[00000000000003E8 - 00000000000003EF]	Communications Port (COM3)
	[00000000000003F8 - 00000000000003FF]	Communications Port (COM1)
	[0000000000000400 - 000000000000047F]	Motherboard resources
	[00000000000004D0 - 00000000000004D1]	Programmable interrupt controller
	[00000000000004D0 - 00000000000004D1]	Programmable interrupt controller

I/O Port Address Map (cont'd)

	[0000000000004D0 - 0000000000004D1]	Programmable interrupt controller
	[000000000000500 - 0000000000005FE]	Motherboard resources
	[000000000000680 - 00000000000069F]	Motherboard resources
	[000000000000A00 - 000000000000A0F]	Motherboard resources
	[000000000000A10 - 000000000000A1F]	Motherboard resources
	[000000000000A20 - 000000000000A2F]	Motherboard resources
	[000000000000D00 - 000000000000FFFF]	PCI Express Root Complex
	[000000000000C000 - 000000000000C01F]	Intel(R) I210 Gigabit Network Connection
	[000000000000C000 - 000000000000C01F]	Intel(R) I210 Gigabit Network Connection #3
	[000000000000C000 - 000000000000CFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 2 - 0F4A
	[000000000000C000 - 000000000000CFFF]	PCI standard PCI-to-PCI bridge
	[000000000000C000 - 000000000000CFFF]	PCI standard PCI-to-PCI bridge
	[000000000000D000 - 000000000000D01F]	Intel(R) I210 Gigabit Network Connection #2
	[000000000000D000 - 000000000000D01F]	Intel(R) I210 Gigabit Network Connection #4
	[000000000000D000 - 000000000000DFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 1 - 0F48
	[000000000000D000 - 000000000000DFFF]	PCI standard PCI-to-PCI bridge
	[000000000000D000 - 000000000000DFFF]	PCI standard PCI-to-PCI bridge
	[000000000000E000 - 000000000000E01F]	Intel Device
	[000000000000E000 - 000000000000E01F]	Intel Device
	[000000000000E000 - 000000000000E01F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor Platform Control Unit - SMBus Port - 0F12
	[000000000000E020 - 000000000000E03F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E020 - 000000000000E03F]	Standard SATA AHCI Controller
	[000000000000E020 - 000000000000E03F]	Standard SATA AHCI Controller
	[000000000000E040 - 000000000000E043]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E040 - 000000000000E043]	Standard SATA AHCI Controller
	[000000000000E040 - 000000000000E043]	Standard SATA AHCI Controller
	[000000000000E050 - 000000000000E057]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E050 - 000000000000E057]	Standard SATA AHCI Controller
	[000000000000E050 - 000000000000E057]	Standard SATA AHCI Controller
	[000000000000E060 - 000000000000E063]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E060 - 000000000000E063]	Standard SATA AHCI Controller
	[000000000000E060 - 000000000000E063]	Standard SATA AHCI Controller
	[000000000000E070 - 000000000000E077]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[000000000000E070 - 000000000000E077]	Standard SATA AHCI Controller
	[000000000000E070 - 000000000000E077]	Standard SATA AHCI Controller
	[000000000000E080 - 000000000000E087]	Intel(R) HD Graphics
	[000000000000E080 - 000000000000E087]	Intel(R) HD Graphics
	[000000000000E080 - 000000000000E087]	Intel(R) HD Graphics

4.2 Interrupt Controller (IRQ) Map

The interrupt controller map for the CT-DBT0x under Windows® 7 Ultimate 64-bit is shown below.

Interrupt request (IRQ)	
 (ISA) 0x00000000 (00)	System timer
 (ISA) 0x00000000 (00)	System timer
 (ISA) 0x00000000 (00)	System timer
 (ISA) 0x00000001 (01)	Standard PS/2 Keyboard
 (ISA) 0x00000003 (03)	Communications Port (COM2)
 (ISA) 0x00000004 (04)	Communications Port (COM1)
 (ISA) 0x00000005 (05)	ASMedia USB 3.0 eXtensible Host Controller - 0096 (Microsoft)
 (ISA) 0x00000005 (05)	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
 (ISA) 0x00000005 (05)	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 2 - 0F4A
 (ISA) 0x00000005 (05)	Intel(R) I210 Gigabit Network Connection
 (ISA) 0x00000005 (05)	Intel(R) I210 Gigabit Network Connection #3
 (ISA) 0x00000005 (05)	PCI standard PCI-to-PCI bridge
 (ISA) 0x00000005 (05)	PCI standard PCI-to-PCI bridge
 (ISA) 0x00000005 (05)	Standard SATA AHCI Controller
 (ISA) 0x00000007 (07)	Communications Port (COM3)
 (ISA) 0x00000007 (07)	Communications Port (COM4)
 (ISA) 0x00000008 (08)	High precision event timer
 (ISA) 0x0000000A (10)	ASMedia USB 3.0 eXtensible Host Controller - 0096 (Microsoft)
 (ISA) 0x0000000A (10)	High Definition Audio Controller
 (ISA) 0x0000000A (10)	High Definition Audio Controller
 (ISA) 0x0000000A (10)	Intel Device
 (ISA) 0x0000000A (10)	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor Platform Control Unit - SMBus Port - 0F12
 (ISA) 0x0000000A (10)	PCI standard PCI-to-PCI bridge
 (ISA) 0x0000000A (10)	PCI standard PCI-to-PCI bridge
 (ISA) 0x0000000A (10)	SDA Standard Compliant SD Host Controller
 (ISA) 0x0000000A (10)	SDA Standard Compliant SD Host Controller
 (ISA) 0x0000000B (11)	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 1 - 0F48
 (ISA) 0x0000000B (11)	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor EHCI USB - 0F34
 (ISA) 0x0000000B (11)	Intel(R) HD Graphics
 (ISA) 0x0000000B (11)	Intel(R) HD Graphics
 (ISA) 0x0000000B (11)	Intel(R) I210 Gigabit Network Connection #2
 (ISA) 0x0000000B (11)	Intel(R) I210 Gigabit Network Connection #4
 (ISA) 0x0000000B (11)	Intel(R) Trusted Execution Engine Interface
 (ISA) 0x0000000B (11)	Intel(R) USB 3.0 eXtensible Host Controller - 0100 (Microsoft)
 (ISA) 0x0000000B (11)	Intel(R) USB 3.0 eXtensible Host Controller - 0100 (Microsoft)
 (ISA) 0x0000000B (11)	PCI standard PCI-to-PCI bridge
 (ISA) 0x0000000B (11)	Standard Enhanced PCI to USB Host Controller
 (ISA) 0x0000000C (12)	PS/2 Compatible Mouse
 (ISA) 0x00000030 (48)	GPIO Controller
 (ISA) 0x00000031 (49)	GPIO Controller
 (ISA) 0x00000032 (50)	GPIO Controller
 (ISA) 0x00000051 (81)	Microsoft ACPI-Compliant System
 (ISA) 0x00000052 (82)	Microsoft ACPI-Compliant System
 (ISA) 0x00000053 (83)	Microsoft ACPI-Compliant System
 (ISA) 0x00000054 (84)	Microsoft ACPI-Compliant System
 (ISA) 0x00000055 (85)	Microsoft ACPI-Compliant System
 (ISA) 0x00000056 (86)	Microsoft ACPI-Compliant System
 (ISA) 0x00000057 (87)	Microsoft ACPI-Compliant System
 (ISA) 0x00000058 (88)	Microsoft ACPI-Compliant System
 (ISA) 0x00000059 (89)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

	(ISA) 0x0000005A (90)	Microsoft ACPI-Compliant System
	(ISA) 0x0000005B (91)	Microsoft ACPI-Compliant System
	(ISA) 0x0000005C (92)	Microsoft ACPI-Compliant System
	(ISA) 0x0000005D (93)	Microsoft ACPI-Compliant System
	(ISA) 0x0000005E (94)	Microsoft ACPI-Compliant System
	(ISA) 0x0000005F (95)	Microsoft ACPI-Compliant System
	(ISA) 0x00000060 (96)	Microsoft ACPI-Compliant System
	(ISA) 0x00000061 (97)	Microsoft ACPI-Compliant System
	(ISA) 0x00000062 (98)	Microsoft ACPI-Compliant System
	(ISA) 0x00000063 (99)	Microsoft ACPI-Compliant System
	(ISA) 0x00000064 (100)	Microsoft ACPI-Compliant System
	(ISA) 0x00000065 (101)	Microsoft ACPI-Compliant System
	(ISA) 0x00000066 (102)	Microsoft ACPI-Compliant System
	(ISA) 0x00000067 (103)	Microsoft ACPI-Compliant System
	(ISA) 0x00000068 (104)	Microsoft ACPI-Compliant System
	(ISA) 0x00000069 (105)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006A (106)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006B (107)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006C (108)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006D (109)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006E (110)	Microsoft ACPI-Compliant System
	(ISA) 0x0000006F (111)	Microsoft ACPI-Compliant System
	(ISA) 0x00000070 (112)	Microsoft ACPI-Compliant System
	(ISA) 0x00000071 (113)	Microsoft ACPI-Compliant System
	(ISA) 0x00000072 (114)	Microsoft ACPI-Compliant System
	(ISA) 0x00000073 (115)	Microsoft ACPI-Compliant System
	(ISA) 0x00000074 (116)	Microsoft ACPI-Compliant System
	(ISA) 0x00000075 (117)	Microsoft ACPI-Compliant System
	(ISA) 0x00000076 (118)	Microsoft ACPI-Compliant System
	(ISA) 0x00000077 (119)	Microsoft ACPI-Compliant System
	(ISA) 0x00000078 (120)	Microsoft ACPI-Compliant System
	(ISA) 0x00000079 (121)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007A (122)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007B (123)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007C (124)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007D (125)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007E (126)	Microsoft ACPI-Compliant System
	(ISA) 0x0000007F (127)	Microsoft ACPI-Compliant System
	(ISA) 0x00000080 (128)	Microsoft ACPI-Compliant System
	(ISA) 0x00000081 (129)	Microsoft ACPI-Compliant System
	(ISA) 0x00000082 (130)	Microsoft ACPI-Compliant System
	(ISA) 0x00000083 (131)	Microsoft ACPI-Compliant System
	(ISA) 0x00000084 (132)	Microsoft ACPI-Compliant System
	(ISA) 0x00000085 (133)	Microsoft ACPI-Compliant System
	(ISA) 0x00000086 (134)	Microsoft ACPI-Compliant System
	(ISA) 0x00000087 (135)	Microsoft ACPI-Compliant System
	(ISA) 0x00000088 (136)	Microsoft ACPI-Compliant System
	(ISA) 0x00000089 (137)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008A (138)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008B (139)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008C (140)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008E (142)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008F (143)	Microsoft ACPI-Compliant System
	(ISA) 0x00000090 (144)	Microsoft ACPI-Compliant System
	(ISA) 0x00000091 (145)	Microsoft ACPI-Compliant System
	(ISA) 0x00000092 (146)	Microsoft ACPI-Compliant System
	(ISA) 0x00000093 (147)	Microsoft ACPI-Compliant System
	(ISA) 0x00000094 (148)	Microsoft ACPI-Compliant System
	(ISA) 0x00000095 (149)	Microsoft ACPI-Compliant System
	(ISA) 0x00000096 (150)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

 (ISA) 0x00000097 (151)	Microsoft ACPI-Compliant System
 (ISA) 0x00000098 (152)	Microsoft ACPI-Compliant System
 (ISA) 0x00000099 (153)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009A (154)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009B (155)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009C (156)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009D (157)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009E (158)	Microsoft ACPI-Compliant System
 (ISA) 0x0000009F (159)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A0 (160)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A1 (161)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A2 (162)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A3 (163)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A4 (164)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A5 (165)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A6 (166)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A7 (167)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A8 (168)	Microsoft ACPI-Compliant System
 (ISA) 0x000000A9 (169)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AA (170)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AB (171)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AC (172)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AD (173)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AE (174)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AF (175)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B0 (176)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B1 (177)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B2 (178)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B3 (179)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B4 (180)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B5 (181)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B6 (182)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B7 (183)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B8 (184)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B9 (185)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BA (186)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BB (187)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BC (188)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BD (189)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BE (190)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BF (191)	Microsoft ACPI-Compliant System
 (ISA) 0x00000100 (256)	Microsoft ACPI-Compliant System
 (ISA) 0x00000101 (257)	Microsoft ACPI-Compliant System
 (ISA) 0x00000102 (258)	Microsoft ACPI-Compliant System
 (ISA) 0x00000103 (259)	Microsoft ACPI-Compliant System
 (ISA) 0x00000104 (260)	Microsoft ACPI-Compliant System
 (ISA) 0x00000105 (261)	Microsoft ACPI-Compliant System
 (ISA) 0x00000106 (262)	Microsoft ACPI-Compliant System
 (ISA) 0x00000107 (263)	Microsoft ACPI-Compliant System
 (ISA) 0x00000108 (264)	Microsoft ACPI-Compliant System
 (ISA) 0x00000109 (265)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010A (266)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010B (267)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010C (268)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010D (269)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010E (270)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010F (271)	Microsoft ACPI-Compliant System
 (ISA) 0x00000110 (272)	Microsoft ACPI-Compliant System
 (ISA) 0x00000111 (273)	Microsoft ACPI-Compliant System
 (ISA) 0x00000112 (274)	Microsoft ACPI-Compliant System
 (ISA) 0x00000113 (275)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

 (ISA) 0x00000114 (276)	Microsoft ACPI-Compliant System
 (ISA) 0x00000115 (277)	Microsoft ACPI-Compliant System
 (ISA) 0x00000116 (278)	Microsoft ACPI-Compliant System
 (ISA) 0x00000117 (279)	Microsoft ACPI-Compliant System
 (ISA) 0x00000118 (280)	Microsoft ACPI-Compliant System
 (ISA) 0x00000119 (281)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011A (282)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011B (283)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011C (284)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011D (285)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011E (286)	Microsoft ACPI-Compliant System
 (ISA) 0x0000011F (287)	Microsoft ACPI-Compliant System
 (ISA) 0x00000120 (288)	Microsoft ACPI-Compliant System
 (ISA) 0x00000121 (289)	Microsoft ACPI-Compliant System
 (ISA) 0x00000122 (290)	Microsoft ACPI-Compliant System
 (ISA) 0x00000123 (291)	Microsoft ACPI-Compliant System
 (ISA) 0x00000124 (292)	Microsoft ACPI-Compliant System
 (ISA) 0x00000125 (293)	Microsoft ACPI-Compliant System
 (ISA) 0x00000126 (294)	Microsoft ACPI-Compliant System
 (ISA) 0x00000127 (295)	Microsoft ACPI-Compliant System
 (ISA) 0x00000128 (296)	Microsoft ACPI-Compliant System
 (ISA) 0x00000129 (297)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012A (298)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012B (299)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012C (300)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012D (301)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012E (302)	Microsoft ACPI-Compliant System
 (ISA) 0x0000012F (303)	Microsoft ACPI-Compliant System
 (ISA) 0x00000130 (304)	Microsoft ACPI-Compliant System
 (ISA) 0x00000131 (305)	Microsoft ACPI-Compliant System
 (ISA) 0x00000132 (306)	Microsoft ACPI-Compliant System
 (ISA) 0x00000133 (307)	Microsoft ACPI-Compliant System
 (ISA) 0x00000134 (308)	Microsoft ACPI-Compliant System
 (ISA) 0x00000135 (309)	Microsoft ACPI-Compliant System
 (ISA) 0x00000136 (310)	Microsoft ACPI-Compliant System
 (ISA) 0x00000137 (311)	Microsoft ACPI-Compliant System
 (ISA) 0x00000138 (312)	Microsoft ACPI-Compliant System
 (ISA) 0x00000139 (313)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013A (314)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013B (315)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013C (316)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013D (317)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013E (318)	Microsoft ACPI-Compliant System
 (ISA) 0x0000013F (319)	Microsoft ACPI-Compliant System
 (ISA) 0x00000140 (320)	Microsoft ACPI-Compliant System
 (ISA) 0x00000141 (321)	Microsoft ACPI-Compliant System
 (ISA) 0x00000142 (322)	Microsoft ACPI-Compliant System
 (ISA) 0x00000143 (323)	Microsoft ACPI-Compliant System
 (ISA) 0x00000144 (324)	Microsoft ACPI-Compliant System
 (ISA) 0x00000145 (325)	Microsoft ACPI-Compliant System
 (ISA) 0x00000146 (326)	Microsoft ACPI-Compliant System
 (ISA) 0x00000147 (327)	Microsoft ACPI-Compliant System
 (ISA) 0x00000148 (328)	Microsoft ACPI-Compliant System
 (ISA) 0x00000149 (329)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014A (330)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014B (331)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014C (332)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014D (333)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014E (334)	Microsoft ACPI-Compliant System
 (ISA) 0x0000014F (335)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

 (ISA) 0x00000150 (336)	Microsoft ACPI-Compliant System
 (ISA) 0x00000151 (337)	Microsoft ACPI-Compliant System
 (ISA) 0x00000152 (338)	Microsoft ACPI-Compliant System
 (ISA) 0x00000153 (339)	Microsoft ACPI-Compliant System
 (ISA) 0x00000154 (340)	Microsoft ACPI-Compliant System
 (ISA) 0x00000155 (341)	Microsoft ACPI-Compliant System
 (ISA) 0x00000156 (342)	Microsoft ACPI-Compliant System
 (ISA) 0x00000157 (343)	Microsoft ACPI-Compliant System
 (ISA) 0x00000158 (344)	Microsoft ACPI-Compliant System
 (ISA) 0x00000159 (345)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015A (346)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015B (347)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015C (348)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015D (349)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015E (350)	Microsoft ACPI-Compliant System
 (ISA) 0x0000015F (351)	Microsoft ACPI-Compliant System
 (ISA) 0x00000160 (352)	Microsoft ACPI-Compliant System
 (ISA) 0x00000161 (353)	Microsoft ACPI-Compliant System
 (ISA) 0x00000162 (354)	Microsoft ACPI-Compliant System
 (ISA) 0x00000163 (355)	Microsoft ACPI-Compliant System
 (ISA) 0x00000164 (356)	Microsoft ACPI-Compliant System
 (ISA) 0x00000165 (357)	Microsoft ACPI-Compliant System
 (ISA) 0x00000166 (358)	Microsoft ACPI-Compliant System
 (ISA) 0x00000167 (359)	Microsoft ACPI-Compliant System
 (ISA) 0x00000168 (360)	Microsoft ACPI-Compliant System
 (ISA) 0x00000169 (361)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016A (362)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016B (363)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016C (364)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016D (365)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016E (366)	Microsoft ACPI-Compliant System
 (ISA) 0x0000016F (367)	Microsoft ACPI-Compliant System
 (ISA) 0x00000170 (368)	Microsoft ACPI-Compliant System
 (ISA) 0x00000171 (369)	Microsoft ACPI-Compliant System
 (ISA) 0x00000172 (370)	Microsoft ACPI-Compliant System
 (ISA) 0x00000173 (371)	Microsoft ACPI-Compliant System
 (ISA) 0x00000174 (372)	Microsoft ACPI-Compliant System
 (ISA) 0x00000175 (373)	Microsoft ACPI-Compliant System
 (ISA) 0x00000176 (374)	Microsoft ACPI-Compliant System
 (ISA) 0x00000177 (375)	Microsoft ACPI-Compliant System
 (ISA) 0x00000178 (376)	Microsoft ACPI-Compliant System
 (ISA) 0x00000179 (377)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017A (378)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017B (379)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017C (380)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017D (381)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017E (382)	Microsoft ACPI-Compliant System
 (ISA) 0x0000017F (383)	Microsoft ACPI-Compliant System
 (ISA) 0x00000180 (384)	Microsoft ACPI-Compliant System
 (ISA) 0x00000181 (385)	Microsoft ACPI-Compliant System
 (ISA) 0x00000182 (386)	Microsoft ACPI-Compliant System
 (ISA) 0x00000183 (387)	Microsoft ACPI-Compliant System
 (ISA) 0x00000184 (388)	Microsoft ACPI-Compliant System
 (ISA) 0x00000185 (389)	Microsoft ACPI-Compliant System
 (ISA) 0x00000186 (390)	Microsoft ACPI-Compliant System
 (ISA) 0x00000187 (391)	Microsoft ACPI-Compliant System
 (ISA) 0x00000188 (392)	Microsoft ACPI-Compliant System
 (ISA) 0x00000189 (393)	Microsoft ACPI-Compliant System
 (ISA) 0x0000018A (394)	Microsoft ACPI-Compliant System
 (ISA) 0x0000018B (395)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

 (ISA) 0x0000018C (396)	Microsoft ACPI-Compliant System
 (ISA) 0x0000018D (397)	Microsoft ACPI-Compliant System
 (ISA) 0x0000018E (398)	Microsoft ACPI-Compliant System
 (ISA) 0x0000018F (399)	Microsoft ACPI-Compliant System
 (ISA) 0x00000190 (400)	Microsoft ACPI-Compliant System
 (ISA) 0x00000191 (401)	Microsoft ACPI-Compliant System
 (ISA) 0x00000192 (402)	Microsoft ACPI-Compliant System
 (ISA) 0x00000193 (403)	Microsoft ACPI-Compliant System
 (ISA) 0x00000194 (404)	Microsoft ACPI-Compliant System
 (ISA) 0x00000195 (405)	Microsoft ACPI-Compliant System
 (ISA) 0x00000196 (406)	Microsoft ACPI-Compliant System
 (ISA) 0x00000197 (407)	Microsoft ACPI-Compliant System
 (ISA) 0x00000198 (408)	Microsoft ACPI-Compliant System
 (ISA) 0x00000199 (409)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019A (410)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019B (411)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019C (412)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019D (413)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019E (414)	Microsoft ACPI-Compliant System
 (ISA) 0x0000019F (415)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A0 (416)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A1 (417)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A2 (418)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A3 (419)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A4 (420)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A5 (421)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A6 (422)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A7 (423)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A8 (424)	Microsoft ACPI-Compliant System
 (ISA) 0x000001A9 (425)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AA (426)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AB (427)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AC (428)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AD (429)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AE (430)	Microsoft ACPI-Compliant System
 (ISA) 0x000001AF (431)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B0 (432)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B1 (433)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B2 (434)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B3 (435)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B4 (436)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B5 (437)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B6 (438)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B7 (439)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B8 (440)	Microsoft ACPI-Compliant System
 (ISA) 0x000001B9 (441)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BA (442)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BB (443)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BC (444)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BD (445)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BE (446)	Microsoft ACPI-Compliant System
 (ISA) 0x000001BF (447)	Microsoft ACPI-Compliant System
 (ISA) 0x000001C0 (448)	Microsoft ACPI-Compliant System
(ISA) 0x000001C1 (449)	Microsoft ACPI-Compliant System
(ISA) 0x000001C2 (450)	Microsoft ACPI-Compliant System
(ISA) 0x000001C3 (451)	Microsoft ACPI-Compliant System
(ISA) 0x000001C4 (452)	Microsoft ACPI-Compliant System
(ISA) 0x000001C5 (453)	Microsoft ACPI-Compliant System
(ISA) 0x000001C6 (454)	Microsoft ACPI-Compliant System
(ISA) 0x000001C7 (455)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

	(ISA) 0x000001C8 (456)	Microsoft ACPI-Compliant System
	(ISA) 0x000001C9 (457)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CA (458)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CB (459)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CC (460)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CD (461)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CE (462)	Microsoft ACPI-Compliant System
	(ISA) 0x000001CF (463)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D0 (464)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D1 (465)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D2 (466)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D3 (467)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D4 (468)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D5 (469)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D6 (470)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D7 (471)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D8 (472)	Microsoft ACPI-Compliant System
	(ISA) 0x000001D9 (473)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DA (474)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DB (475)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DC (476)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DD (477)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DE (478)	Microsoft ACPI-Compliant System
	(ISA) 0x000001DF (479)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E0 (480)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E1 (481)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E2 (482)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E3 (483)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E4 (484)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E5 (485)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E6 (486)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E7 (487)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E8 (488)	Microsoft ACPI-Compliant System
	(ISA) 0x000001E9 (489)	Microsoft ACPI-Compliant System
	(ISA) 0x000001EA (490)	Microsoft ACPI-Compliant System
	(ISA) 0x000001EB (491)	Microsoft ACPI-Compliant System
	(ISA) 0x000001EC (492)	Microsoft ACPI-Compliant System
	(ISA) 0x000001ED (493)	Microsoft ACPI-Compliant System
	(ISA) 0x000001EE (494)	Microsoft ACPI-Compliant System
	(ISA) 0x000001EF (495)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F0 (496)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F1 (497)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F2 (498)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F3 (499)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F4 (500)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F5 (501)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F6 (502)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F7 (503)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F8 (504)	Microsoft ACPI-Compliant System
	(ISA) 0x000001F9 (505)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FA (506)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FB (507)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FC (508)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FD (509)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FE (510)	Microsoft ACPI-Compliant System

Interrupt Controller (IRQ) Map (cont'd)

	(ISA) 0x000001FF (511)	Microsoft ACPI-Compliant System
	(PCI) 0x0000000A (10)	Intel Device
	(PCI) 0x00000010 (16)	PCI standard PCI-to-PCI bridge
	(PCI) 0x00000011 (17)	PCI standard PCI-to-PCI bridge
	(PCI) 0x00000012 (18)	SDA Standard Compliant SD Host Controller
	(PCI) 0x00000013 (19)	Standard SATA AHCI Controller
	(PCI) 0x00000016 (22)	High Definition Audio Controller
	(PCI) 0x00000017 (23)	Standard Enhanced PCI to USB Host Controller
	(PCI) 0xFFFFFFFF1 (-15)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF2 (-14)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF3 (-13)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF4 (-12)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF5 (-11)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF6 (-10)	Intel(R) I210 Gigabit Network Connection #5
	(PCI) 0xFFFFFFFF7 (-9)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFF8 (-8)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFF9 (-7)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFFFA (-6)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFFFB (-5)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFFFC (-4)	Intel(R) I210 Gigabit Network Connection #6
	(PCI) 0xFFFFFFFFFD (-3)	Intel(R) Trusted Execution Engine Interface
	(PCI) 0xFFFFFFFFFE (-2)	Intel(R) HD Graphics

4.3 Memory Map

The memory map of DRAM for the CT-DBT0x under Windows® 7 Ultimate 64-bit is shown below.

Memory	
[0000000000A0000 - 0000000000BFFFF]	Intel(R) HD Graphics
[0000000000A0000 - 0000000000BFFFF]	PCI Express Root Complex
[0000000000C0000 - 0000000000DFFFF]	PCI Express Root Complex
[0000000000DF000 - 0000000000DFFFF]	SDA Standard Compliant SD Host Controller
[0000000000E0000 - 0000000000FFFFFF]	PCI Express Root Complex
[00000000A0000000 - 00000000AFFFFFFF]	Intel(R) HD Graphics
[00000000A0000000 - 00000000AFFFFFFF]	Intel(R) HD Graphics
[00000000A0000000 - 00000000AFFFFFFF]	Intel(R) HD Graphics
[00000000A0000000 - 00000000B0808FFE]	PCI Express Root Complex
[00000000B0000000 - 00000000B03FFFFFFF]	Intel(R) HD Graphics
[00000000B0000000 - 00000000B03FFFFFFF]	Intel(R) HD Graphics
[00000000B0000000 - 00000000B03FFFFFFF]	Intel(R) HD Graphics
[00000000B0400000 - 00000000B04FFFFFFF]	Intel(R) Trusted Execution Engine Interface
[00000000B0400000 - 00000000B04FFFFFFF]	Intel(R) Trusted Execution Engine Interface
[00000000B0500000 - 00000000B05FFFFFFF]	Intel(R) Trusted Execution Engine Interface
[00000000B0500000 - 00000000B05FFFFFFF]	Intel(R) Trusted Execution Engine Interface
[00000000B0600000 - 00000000B0607FFF]	ASMedia USB 3.0 eXtensible Host Controller - 0096 (Microsoft)
[00000000B0600000 - 00000000B067FFFF]	Intel(R) I210 Gigabit Network Connection #5
[00000000B0600000 - 00000000B067FFFF]	Intel(R) I210 Gigabit Network Connection
[00000000B0600000 - 00000000B067FFFF]	Intel(R) I210 Gigabit Network Connection #3
[00000000B0600000 - 00000000B06FFFFFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 2 - 0F4A
[00000000B0600000 - 00000000B06FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0600000 - 00000000B06FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0600000 - 00000000B06FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection #5
[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection
[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection #3
[00000000B0700000 - 00000000B0707FFF]	ASMedia USB 3.0 eXtensible Host Controller - 0096 (Microsoft)
[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #6
[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #2
[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #4
[00000000B0700000 - 00000000B07FFFFFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 1 - 0F48
[00000000B0700000 - 00000000B07FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0700000 - 00000000B07FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0700000 - 00000000B07FFFFFFF]	PCI standard PCI-to-PCI bridge
[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #6
[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #2
[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #4
[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
[00000000B0800000 - 00000000B080FFFF]	Intel(R) USB 3.0 eXtensible Host Controller - 0100 (Microsoft)
[00000000B0804000 - 00000000B080401F]	Intel Device
[00000000B0804000 - 00000000B080401F]	Intel Device
[00000000B0804000 - 00000000B080401F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor Platform Control Unit - SMBus Port - 0F12
[00000000B0805000 - 00000000B08053FF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor EHCI USB - 0F34
[00000000B0805000 - 00000000B08053FF]	Standard Enhanced PCI to USB Host Controller
[00000000B0805000 - 00000000B08053FF]	Standard Enhanced PCI to USB Host Controller
[00000000B0806000 - 00000000B08067FF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
[00000000B0806000 - 00000000B08067FF]	Standard SATA AHCI Controller

Memory Map (cont'd)

	[00000000B0600000 - 00000000B06FFFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0600000 - 00000000B06FFFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0600000 - 00000000B06FFFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection #5
	[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection
	[00000000B0680000 - 00000000B0683FFF]	Intel(R) I210 Gigabit Network Connection #3
	[00000000B0700000 - 00000000B0707FFF]	ASMedia USB 3.0 eXtensible Host Controller - 0096 (Microsoft)
	[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #6
	[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #2
	[00000000B0700000 - 00000000B077FFFF]	Intel(R) I210 Gigabit Network Connection #4
	[00000000B0700000 - 00000000B077FFFF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor PCI Express - Root Port 1 - 0F48
	[00000000B0700000 - 00000000B077FFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0700000 - 00000000B077FFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0700000 - 00000000B077FFFF]	PCI standard PCI-to-PCI bridge
	[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #6
	[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #2
	[00000000B0780000 - 00000000B0783FFF]	Intel(R) I210 Gigabit Network Connection #4
	[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
	[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
	[00000000B0800000 - 00000000B0803FFF]	High Definition Audio Controller
	[00000000B0800000 - 00000000B080FFFF]	Intel(R) USB 3.0 eXtensible Host Controller - 0100 (Microsoft)
	[00000000B0804000 - 00000000B080401F]	Intel Device
	[00000000B0804000 - 00000000B080401F]	Intel Device
	[00000000B0804000 - 00000000B080401F]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor Platform Control Unit - SMBus Port - 0F12
	[00000000B0805000 - 00000000B08053FF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor EHCI USB - 0F34
	[00000000B0805000 - 00000000B08053FF]	Standard Enhanced PCI to USB Host Controller
	[00000000B0805000 - 00000000B08053FF]	Standard Enhanced PCI to USB Host Controller
	[00000000B0806000 - 00000000B08067FF]	Intel(R) Atom(TM)/Celeron(R)/Pentium(R) Processor AHCI - 0F23
	[00000000B0806000 - 00000000B08067FF]	Standard SATA AHCI Controller
	[00000000B0806000 - 00000000B08067FF]	Standard SATA AHCI Controller
	[00000000B0807000 - 00000000B0807FFF]	SDA Standard Compliant SD Host Controller
	[00000000B0807000 - 00000000B0807FFF]	SDA Standard Compliant SD Host Controller
	[00000000B0807000 - 00000000B0807FFF]	SDA Standard Compliant SD Host Controller
	[00000000B0808000 - 00000000B0808FFF]	SDA Standard Compliant SD Host Controller
	[00000000B0808000 - 00000000B0808FFF]	SDA Standard Compliant SD Host Controller
	[00000000B0A00000 - 00000000B0A0FFFF]	Intel(R) USB 3.0 eXtensible Host Controller - 0100 (Microsoft)
	[00000000E0000000 - 00000000EFFFFFFF]	Motherboard resources
	[00000000FED00000 - 00000000FED003FF]	High precision event timer
	[00000000FED01000 - 00000000FED01FFF]	Motherboard resources
	[00000000FED03000 - 00000000FED03FFF]	Motherboard resources
	[00000000FED04000 - 00000000FED04FFF]	Motherboard resources
	[00000000FED08000 - 00000000FED08FFF]	Motherboard resources
	[00000000FED0C000 - 00000000FED0CFFF]	GPIO Controller
	[00000000FED0D000 - 00000000FED0DFFF]	GPIO Controller
	[00000000FED0E000 - 00000000FED0EFFF]	GPIO Controller
	[00000000FED1C000 - 00000000FED1CFFF]	Motherboard resources
	[00000000FEE00000 - 00000000FEEFFFFFFF]	Motherboard resources
	[00000000FEF00000 - 00000000FEFFFFFFFF]	Motherboard resources
	[00000000FF000000 - 00000000FFFFFFFF]	Intel(R) 82802 Firmware Hub Device
	[00000000FF000000 - 00000000FFFFFFFF]	Intel(R) 82802 Firmware Hub Device
	[00000000FF000000 - 00000000FFFFFFFF]	Intel(R) 82802 Firmware Hub Device

