ACM-EL6KE0-Ax

COM Express Mini Module Type 10 with Intel® Elkhart Lake

User Manual

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

Disclaimer

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Purpose

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

Audience

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

WARNING

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

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

CAUTION

 IEC 60417-6042 (2010-11)

 IEC 60417-6172 (2012-09)

All power cords must be disconnected during product repair.

Ver: 100
Date: Mar. 6, 2023

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

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1. Introduction

Introducing the latest addition to Acrosser's COM Express Type 10 product line - the ACM-EL6KE0-Ax. Powered by an Intel Elkhart Lake entry-level processor, this product boasts an impressive 16GB DDR4 memory and 64GB EMMC on board, making it stand out from the Standard Type 10 with 4 PCIe x1 Lanes. With its mini form factor of just 84mm x 55mm, it meets the popular COM Express standard and can easily fulfill all of your embedded requirements, bringing your ideas to life.

The ACM-EL6KE0-Ax is available with two different CPU grades, providing flexibility for your applications in highly variable environments. Whether you need a powerful processor for intensive tasks or a more cost-effective option for simple applications, this product has got you covered.

Upgrade your embedded systems with the ACM-EL6KE0-Ax, and experience the power and versatility you need for your next project.

1.1. Specifications

CPU	• **ACM-EL6KE0-A1**: Intel® Elkhart Lake Intel Atom® x6425E Processor, 2.00GHz up to 3GHz, 4C, 4T, 1.5MB cache, 12W • **ACM-EL6KE0-A2**: Intel® Elkhart Lake Intel Pentium® J6426Processor, 2.00GHz up to 3GHz, 4C, 4T, 1.5MB cache, 10W
Chipset	• Intel® SoC
GPU	• Intel® UHD Graphics for 10th Gen Intel® Processors
Display	• 1x LVDS/eDP • 1x DDI port
LVDS	• Supports 18/24bit Single channel
BIOS	• AMI UEFI
Memory	• **ACM-EL6KE0-A1**: Onboard LPDDR4x 4266 memory 8G • **ACM-EL6KE0-A2**: Onboard LPDDR4x 4266 memory 16G
Storage	• Onboard EMMC 64GB
Ethernet	• 1x Intel® I226AT/IT 2.5GbE0
SATA	• 2x SATA III (6.0Gb/s)
USB	• 8x USB2.0 • 2x USB3.2 Gen2
Audio	• 1x Intel High Definition Audio Interface
Serial Port	• 2x wire UART (Only TX & RX)

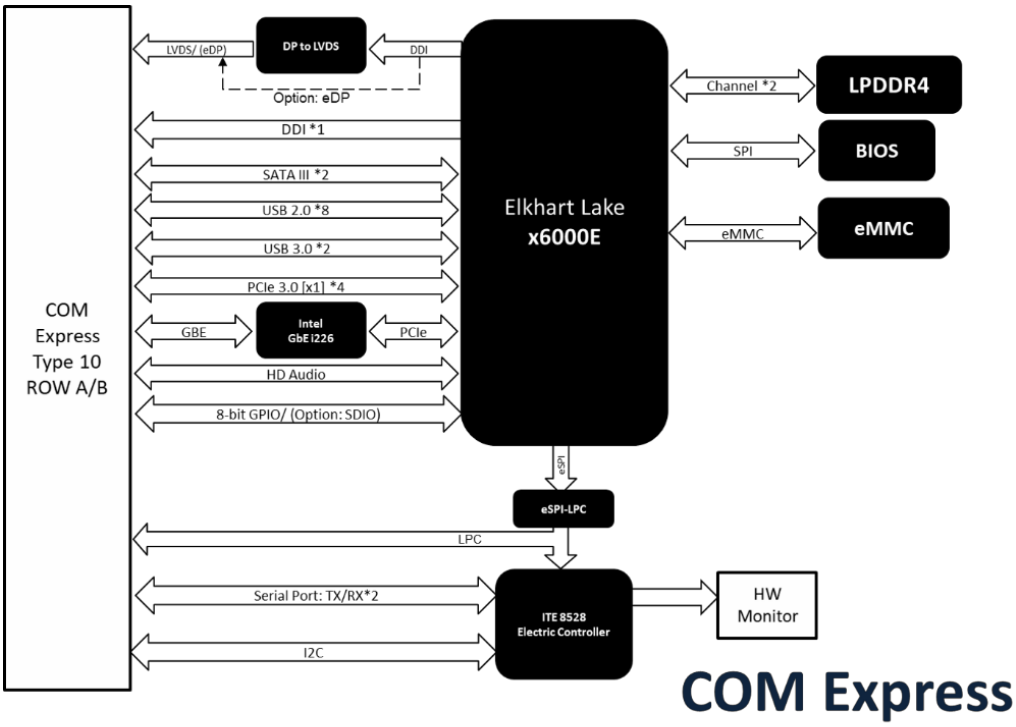
GPIO	•	8 bit
Expansion	•	4x PCI Express 3.0 lanes 4 PCIe x1 I2C LPC SMBus
OS Support	•	Windows 10
	•	Linux Kernel 64-bit
Watchdog Timer	•	Software programmable 0~255 seconds, 0 = disable timer.
Power Mode	•	AT/ATX Mode (by jumper setting)
Operating Temperature	•	-40°C ~ 85°C
Dimension	•	84 mm x 55 mm (3.31" x 2.17") COM Express type 10
Safety	•	CE, FCC Class A

1.2. Packing List

Check if the following items are included in the package.

	Item	Q'ty
☐	**ACM-EL6KE0-A1** or **ACM-EL6KE0-A2**	1
☐	CPU Cooler	1

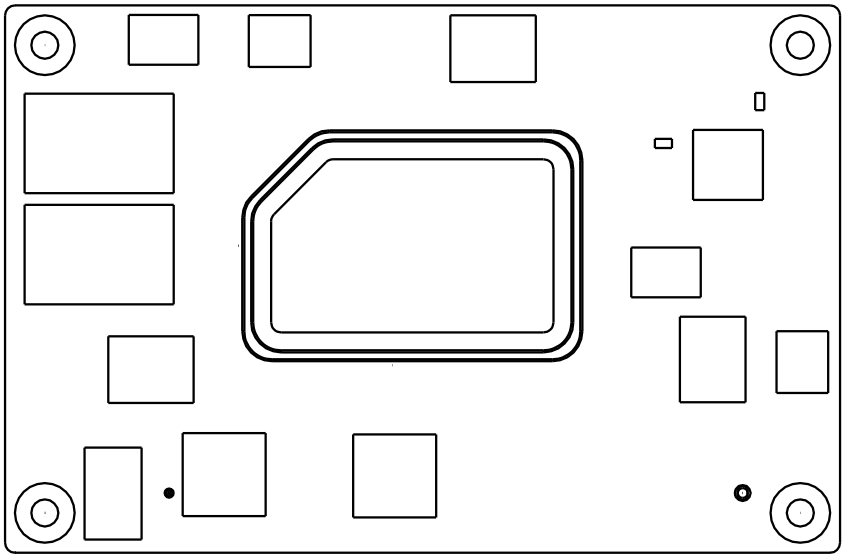
1.3. Block Diagram



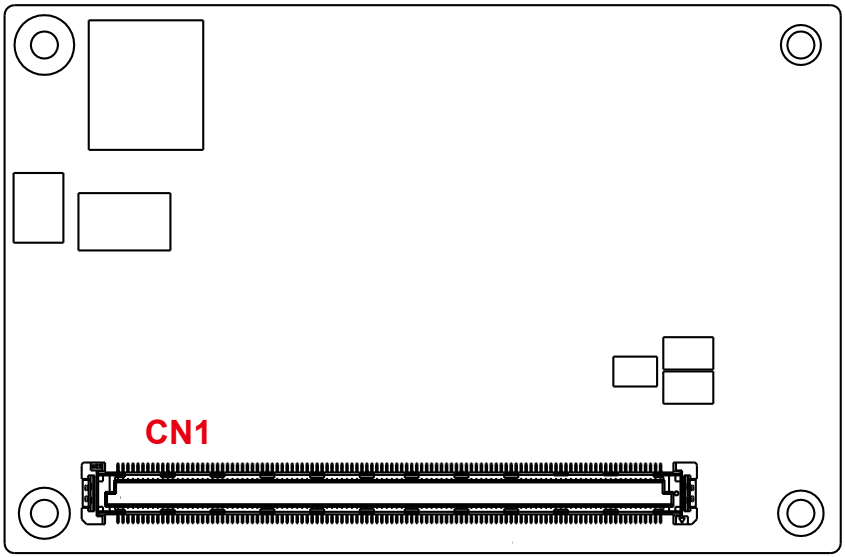
2. Hardware Information

2.1. Mainboard Layout

Top View



Bottom View



2.2. Row A/B Pin Assignments (CN1)

Pin #	Row A	Pin #	Row B
A1	GND (FIXED)	B1	GND (FIXED)
A2	GBE0_MDI3-	B2	GBE0_ACT#
A3	GBE0_MDI3+	B3	LPC_FRAME#
A4	GBE0_LINK1000#	B4	LPC_AD0
A5	GBE0_LINK2500#	B5	LPC_AD1
A6	GBE0_MDI2-	B6	LPC_AD2
A7	GBE0_MDI2+	B7	LPC_AD3
A8	GBE0_LINK#	B8	N.C.
A9	GBE0_MDI1-	B9	N.C.
A10	GBE0_MDI1+	B10	LPC_CLK
A11	GND (FIXED)	B11	GND (FIXED)
A12	GBE0_MDI0-	B12	PWRBTN#
A13	GBE0_MDI0+	B13	SMB_CK
A14	N.C.	B14	SMB_DAT
A15	SUS_S3#	B15	SMB_ALERT#
A16	SATA0_TX+	B16	SATA1_TX+
A17	SATA0_TX-	B17	SATA1_TX-
A18	SUS_S4#	B18	SUS_STAT#
A19	SATA0_RX+	B19	SATA1_RX+
A20	SATA0_RX-	B20	SATA1_RX-
A21	GND (FIXED)	B21	GND (FIXED)
A22	USB3_RXN0	B22	USB3_TXN0
A23	USB3_RXP0	B23	USB3_TXP0
A24	SUS_S4#	B24	PWR_OK
A25	USB3_RX1_N	B25	USB3_TX1_N
A26	USB3_RX1_P	B26	USB3_TX1_P
A27	BATLOW#	B27	WDT
A28	ATA_ACT#	B28	N.C.
A29	AC_SYNC	B29	N.C.
A30	AC_RST#	B30	AC_SDIN0
A31	GND (FIXED)	B31	GND (FIXED)
A32	AC_BITCLK	B32	SPKR

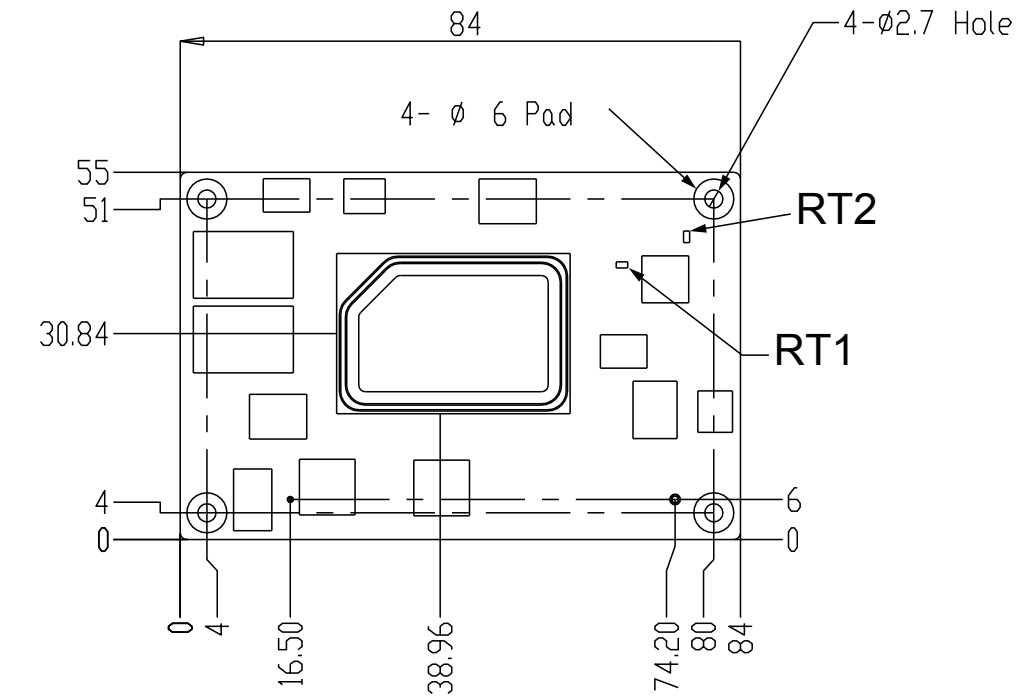
Pin #	Row A	Pin #	Row B
A33	AC_SDOUT	B33	I2C_CK
A34	BIOS_DIS0#	B34	I2C_DAT
A35	THRMTRIP#	B35	THRM#
A36	USB6-	B36	USB7-
A37	USB6+	B37	USB7+
A38	USB_6_7_OC#	B38	USB_4_5_OC#
A39	USB4-	B39	USB5-
A40	USB4+	B40	USB5+
A41	GND (FIXED)	B41	GND (FIXED)
A42	USB2-	B42	USB3-
A43	USB2+	B43	USB3+
A44	USB_2_3_OC#	B44	USB_0_1_OC#
A45	USB0-	B45	USB1-
A46	USB0+	B46	USB1+
A47	VCC_RTC	B47	N.C.
A48	N.C.	B48	N.C.
A49	N.C.	B49	SYS_RESET#
A50	LPC_SERIRQ	B50	CB_RESET#
A51	GND (FIXED)	B51	GND (FIXED)
A52	N.C.	B52	N.C.
A53	N.C.	B53	N.C.
A54	GPI0	B54	GPO1
A55	N.C.	B55	N.C.
A56	N.C.	B56	N.C.
A57	GND	B57	GPO2
A58	PCIE_TX3+	B58	PCIE_RX3+
A59	PCIE_TX3-	B59	PCIE_RX3-
A60	GND (FIXED)	B60	GND (FIXED)
A61	PCIE_TX2+	B61	PCIE_RX2+
A62	PCIE_TX2-	B62	PCIE_RX2-
A63	GPI1	B63	GPO3
A64	PCIE_TX1+	B64	PCIE_RX1+
A65	PCIE_TX1-	B65	PCIE_RX1-
A66	GND	B66	WAKE0#

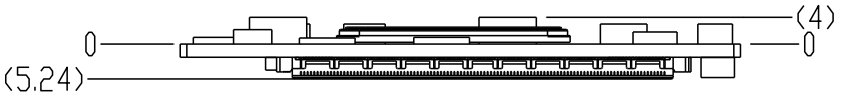
Pin #	Row A	Pin #	Row B
A67	GPI2	B67	WAKE1#
A68	PCIE_TX0+	B68	PCIE_RX0+
A69	PCIE_TX0-	B69	PCIE_RX0-
A70	GND (FIXED)	B70	GND (FIXED)
A71	LVDS_A0+(EDP_TX2_P)	B71	DDI0_PAIR0+
A72	LVDS_A0-(EDP_TX2_N)	B72	DDI0_PAIR0-
A73	LVDS_A1+(EDP_TX1_P)	B73	DDI0_PAIR1+
A74	LVDS_A1-(EDP_TX1_N)	B74	DDI0_PAIR1-
A75	LVDS_A2+(EDP_TX0_P)	B75	DDI0_PAIR2+
A76	LVDS_A2-(EDP_TX0_N)	B76	DDI0_PAIR2-
A77	LVDS_VDD_EN(EDP_VDDEN_3_3)	B77	N.C.
A78	LVDS_A3+	B78	N.C.
A79	LVDS_A3-	B79	LVDS_BKLD_EN(EDP_BKLTEN_3_3)
A80	GND (FIXED)	B80	GND (FIXED)
A81	LVDS_A_CK+(EDP_TX3_P)	B81	DDI0_PAIR3+
A82	LVDS_A_CK-(EDP_TX3_N)	B82	DDI0_PAIR3-
A83	LVDS_I2C_CK(EDP_AUXP)	B83	EDP_BKLT_CTRL
A84	LVDS_I2C_DAT(EDP_AUXN)	B84	VCC_5V_SBY
A85	GPI3	B85	VCC_5V_SBY
A86	EC_KBRST#	B86	VCC_5V_SBY
A87	DDI0_HPD_3.3S(eDP use)	B87	VCC_5V_SBY
A88	PCIE0_CK_REF+	B88	BISO_DIS1#
A89	PCIE0_CK_REF-	B89	DDI0_HPD
A90	GND (FIXED)	B90	GND (FIXED)
A91	SPI_POWER	B91	N.C.
A92	SPI_MISO	B92	N.C.
A93	GPO0	B93	N.C.
A94	SPI_CLK	B94	N.C.
A95	SPI_MOSI	B95	DDI0_DDC_AUX_SEL
A96	GND	B96	N.C.
A97	TYPE10#	B97	SPI_CS#
A98	RS1_TX	B98	DDI0_CTRL_CLK
A99	RS1_RX	B99	DDI0_CTRL_DATA
A100	GND (FIXED)	B100	GND (FIXED)

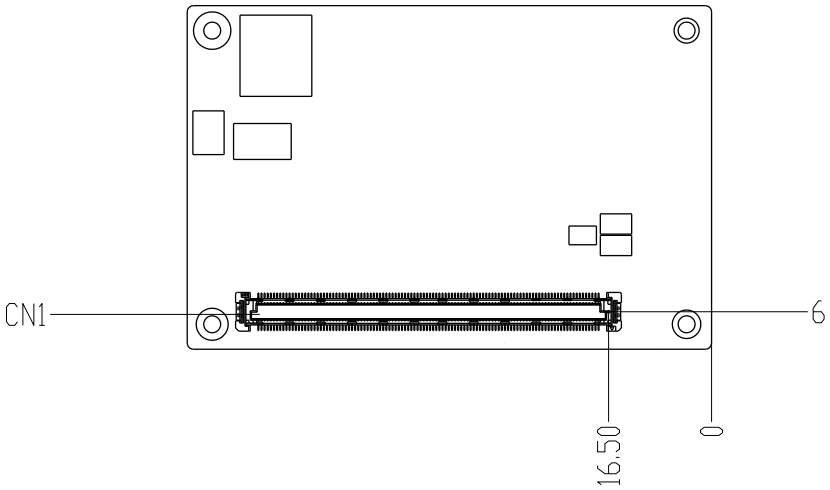
Pin #	Row A	Pin #	Row B
A101	RS2_TX	B101	FAN_PWMOUT
A102	RS2_RX	B102	FAN_TACHIN
A103	LID#	B103	SLEEP#
A104	VCC_12V	B104	VCC_12V
A105	VCC_12V	B105	VCC_12V
A106	VCC_12V	B106	VCC_12V
A107	VCC_12V	B107	VCC_12V
A108	VCC_12V	B108	VCC_12V
A109	VCC_12V	B109	VCC_12V
A110	GND (FIXED)	B110	GND (FIXED)

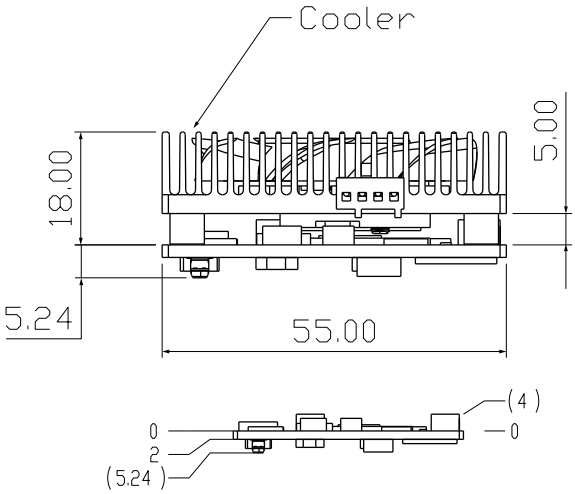
2.3. Board Dimension

(Unit: mm)






CN1
6
16.50
0


Cooler
18.00
5.00
5.24
55.00
(4)
0
0
2
(5.24)

3. BIOS Settings

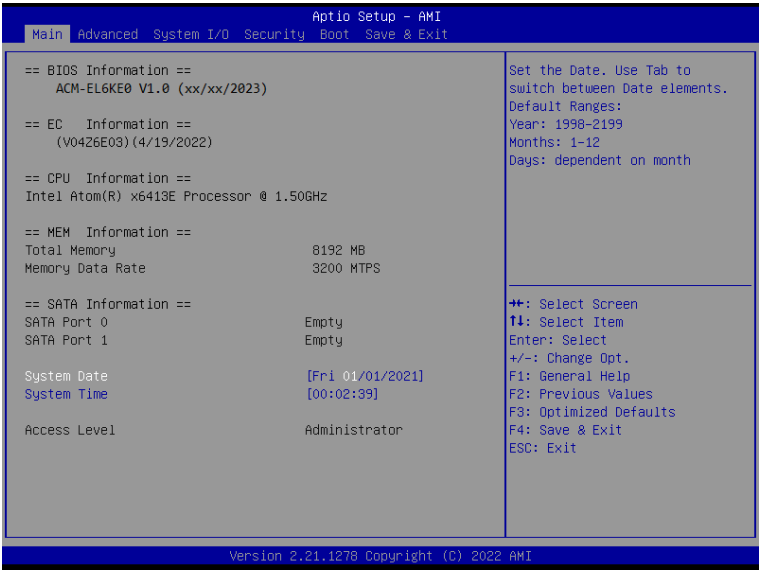
The AMI BIOS ROM has a pre-installed Setup program that allows users to modify basic system configurations, which is stored in the battery-backed CMOS RAM and BIOS NVRAM so that the information is retained when the power is turned off.

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

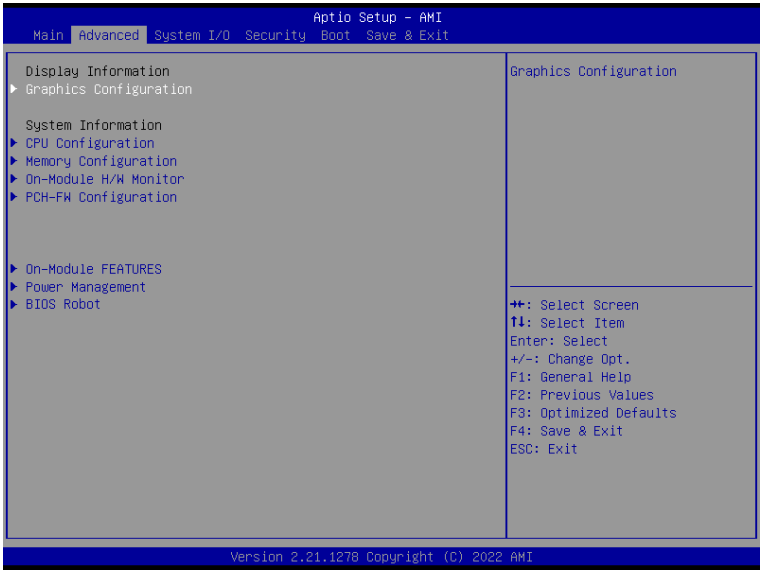
The function for each interface can be found below.

- Main – Date and time can be set here. Press <Tab> to switch between date elements
- Advanced – Enable/ Disable boot option for legacy network devices
- System I/O – For configuring PCI Express settings
- Security – The setup administrator password can be set here
- Boot – Enable/ Disable Quiet Boot option
- Save & Exit –Save your changes and exit the program

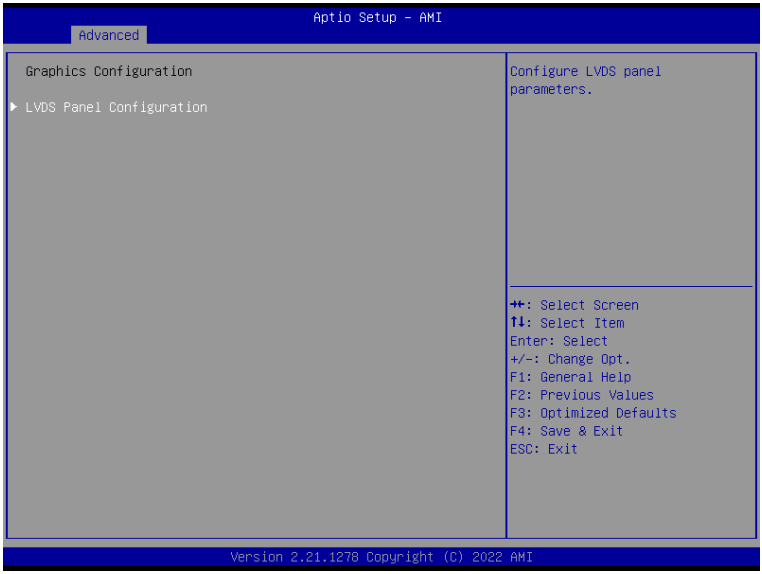
3.1. Main Setup



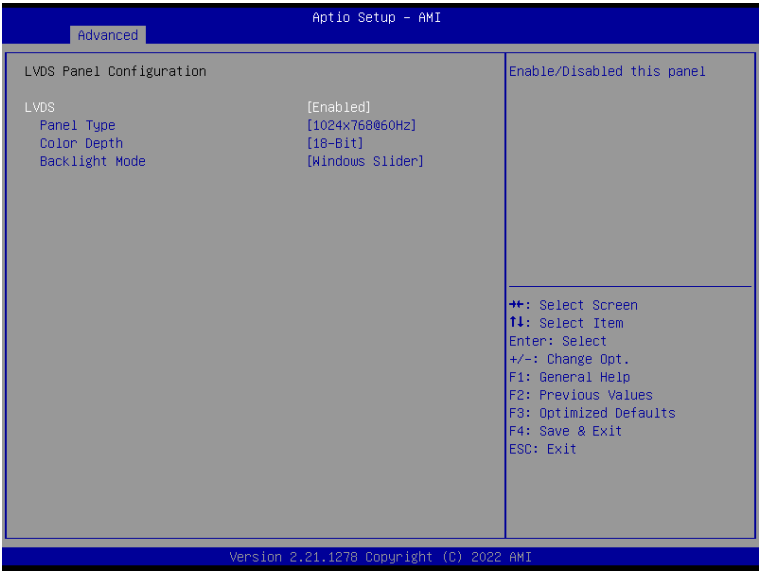
3.2. Advanced Setup



3.2.1. Graphics Configuration

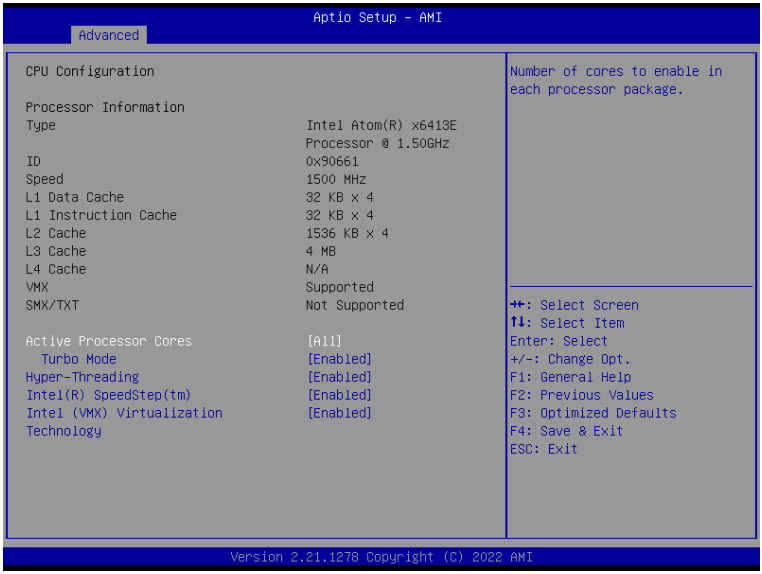


3.2.1.1. LVDS Panel Configuration



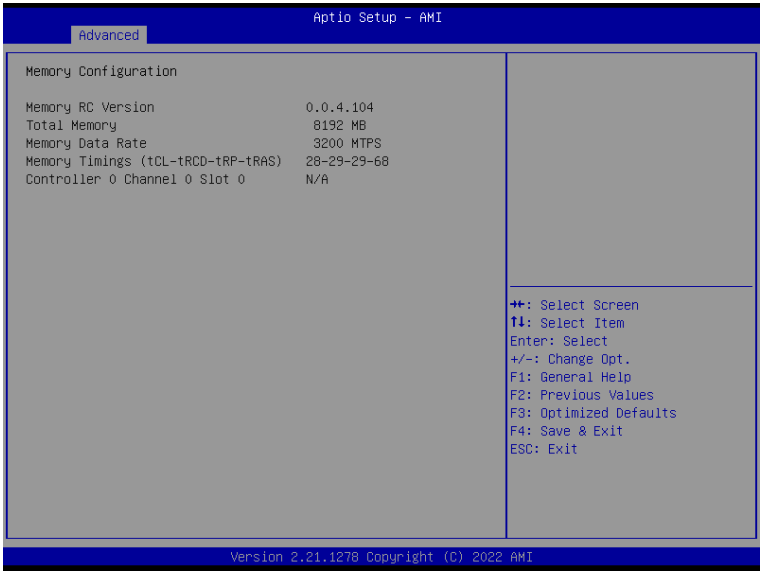
- **LVDS**
  Enable/Disable LVDS.
- **Panel Type**
  Select LCD panel used by internal graphics device by selecting the appropriate setup item.
- **Color Depth**
  Select panel type.
- **Backlight Mode**
  Select backlight control signal type

3.2.2. CPU Configuration

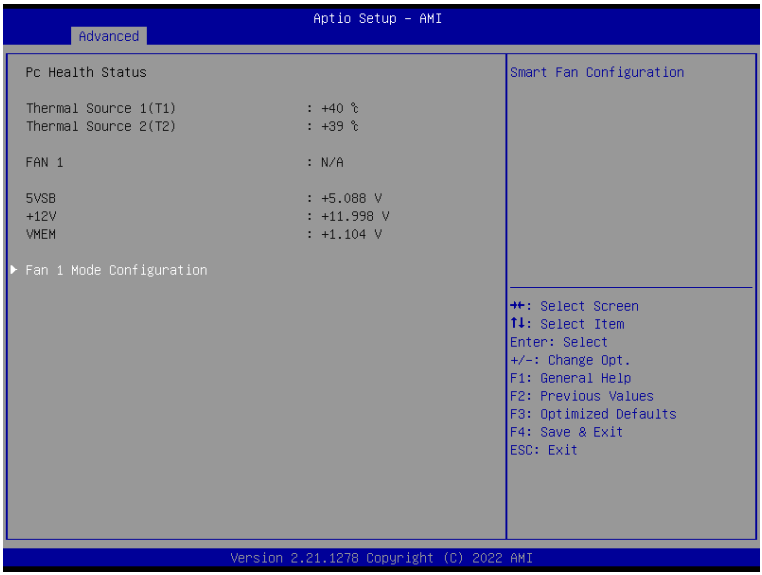


- **Active Processor Cores**
  Number of cores to enable in each processor package.
- **Turbo Mode**
  Enable/Disable processor Turbo Mode (requires EMTTM enabled too).
- **Hyper-Threading**
  Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology).
- **Intel(R) SpeedStep(tm)**
  Allows more than two frequency ranges to be supported.
- **Intel (VMX) Virtualization Technology**
  VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.

3.2.3. Memory Configuration

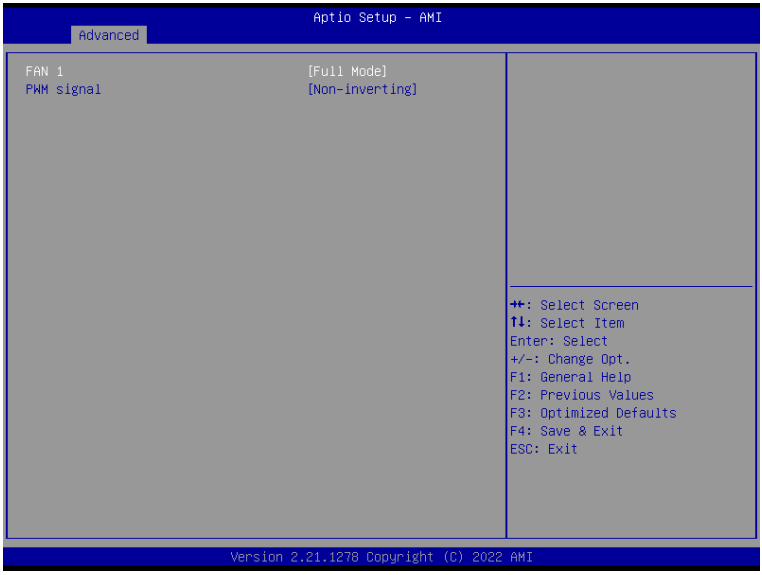


3.2.4. On-Module H/W Monitor

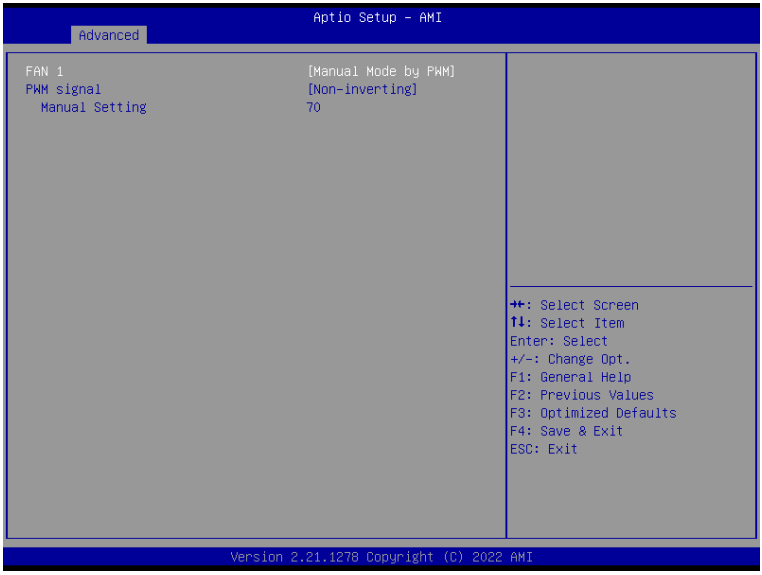


3.2.4.1. Fan 1 Mode Configuration

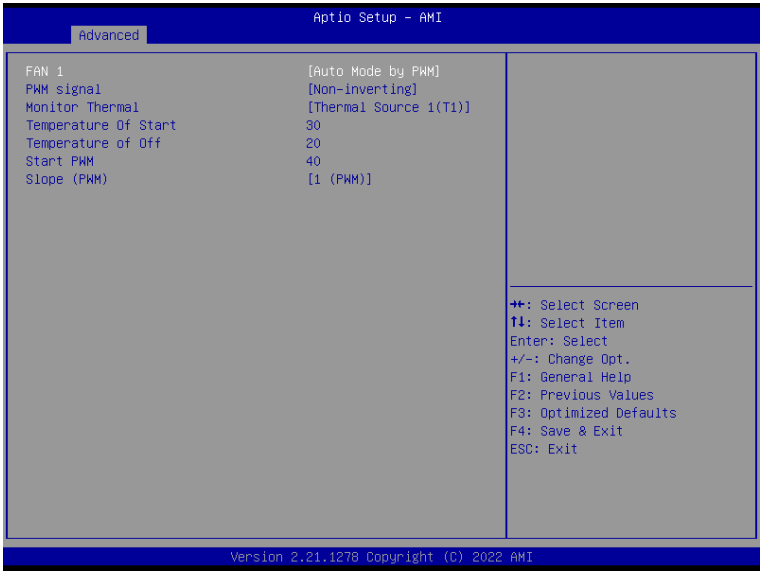
Fan 1: Full Mode



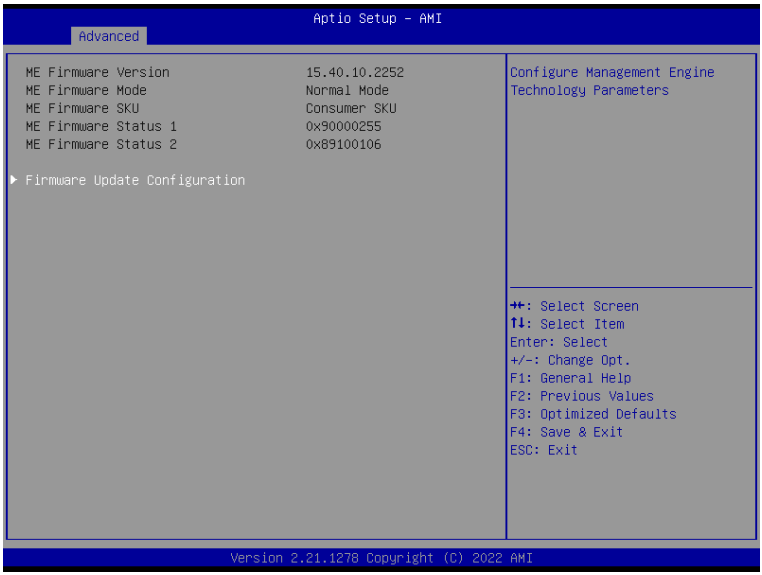
Fan 1: Manual Mode by PWM



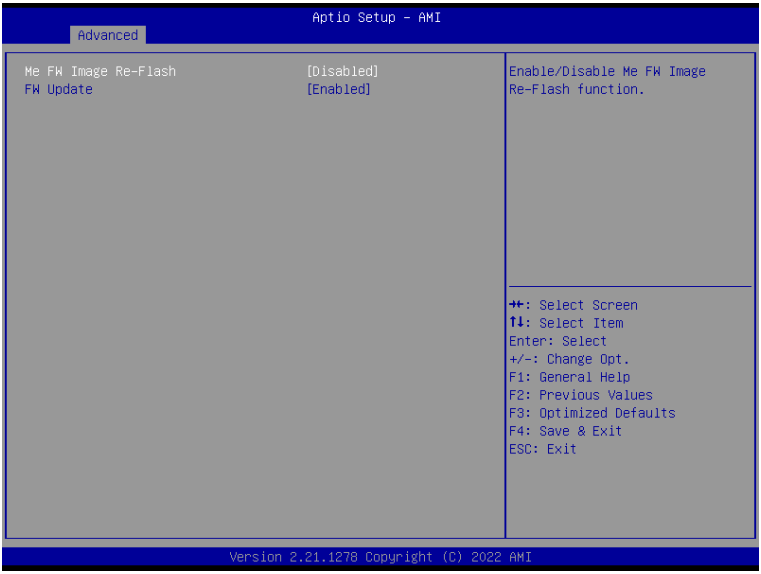
Fan 1: Auto Mode by PWM



3.2.5. PCH-FW Configuration

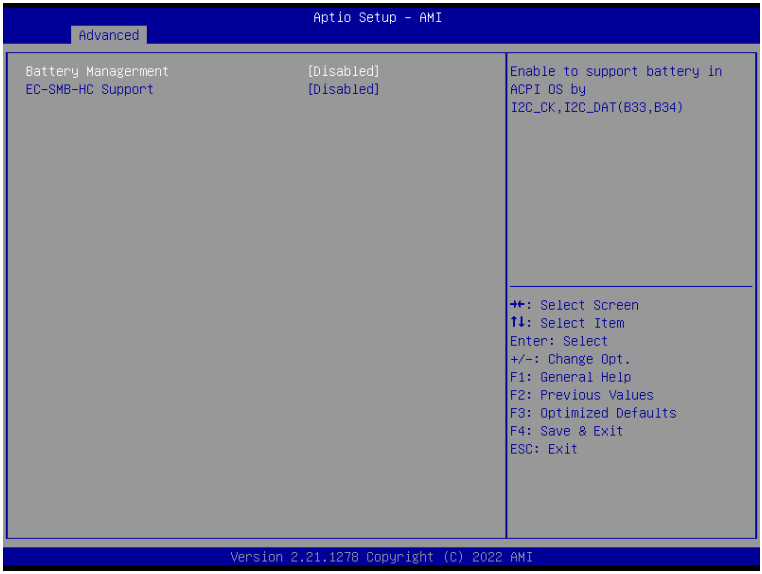


3.2.5.1. Firmware Update Configuration



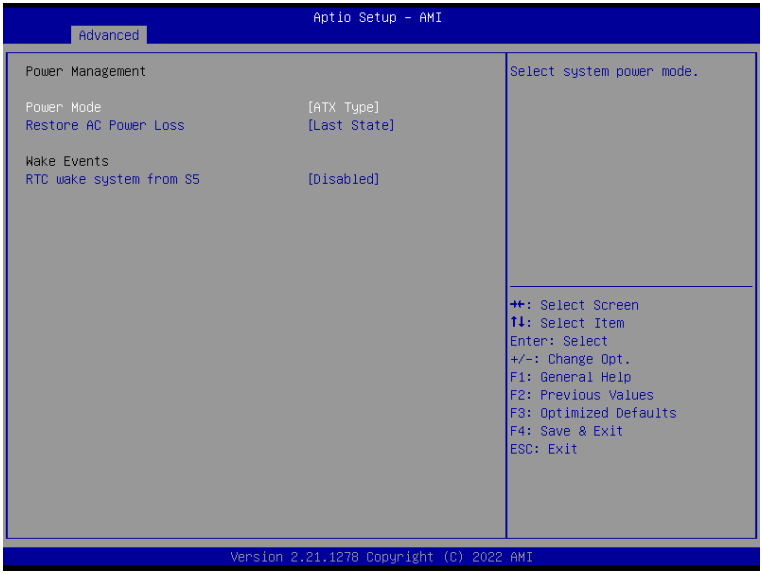
- **Me FW Image Re-Flash**
  Enable/Disable Me FW Image Re-Flash function.
- **Local FW Update**
  Enable/Disable ME FW Update function.

3.2.6. On-Module Configuration



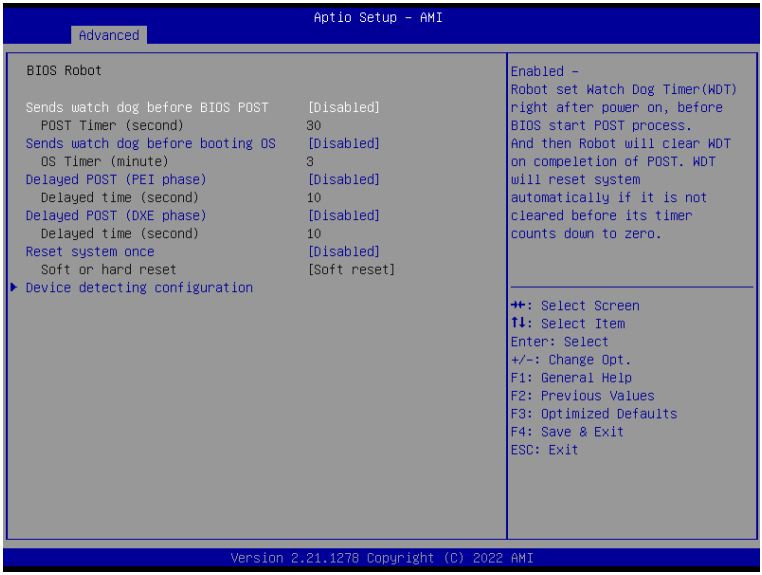
- **Battery Management**
  Enable to support battery in ACPI OS by I2C_CK, I2C_DAT.
- **EC-SMB-HC Support**
  SMBus Host Controller Interface via Embedded Controller.

3.2.7. Power Management



- **Power Mode**
  Select system power mode.
- **Restore AC Power Loss**
  Set Power Loss State.
- **RTC wake system from S5**
  Fixed Time: System will wake on the hr:min:sec specified.
  Dynamic Time: System will wake on the current time + Increase minute(s)
  Bypass: BIOS will not control RTC wake function during system shutdown

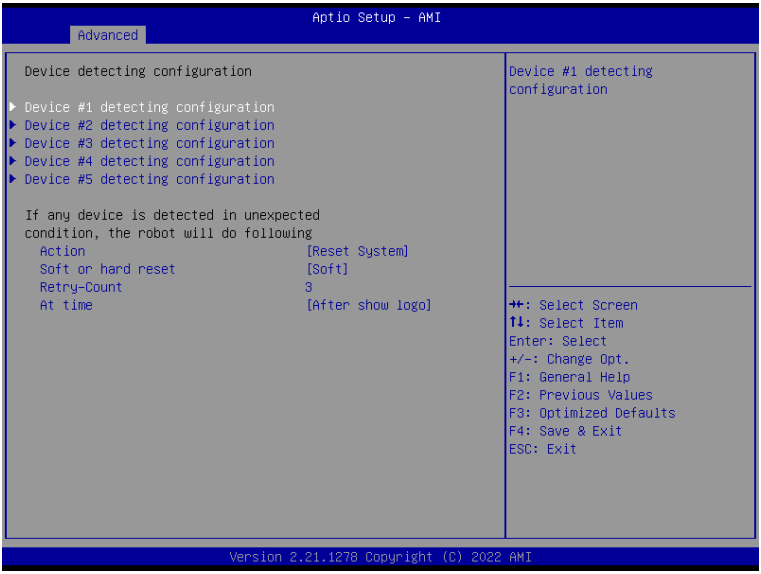
3.2.8. BIOS Robot



- **Sends watch dog before BIOS POST**
  Robot set Watch Dog Timer (WDT) right after power on, before BIOS start POST process. And then Robot will clear WDT on completion of POST. WDT will reset system automatically if it is not cleared before its timer counts down to zero.
- **Sends watch dog before booting OS**
  Robot set Watch Dog Timer (WDT) after POST completion, before BIOS transfer control to OS.

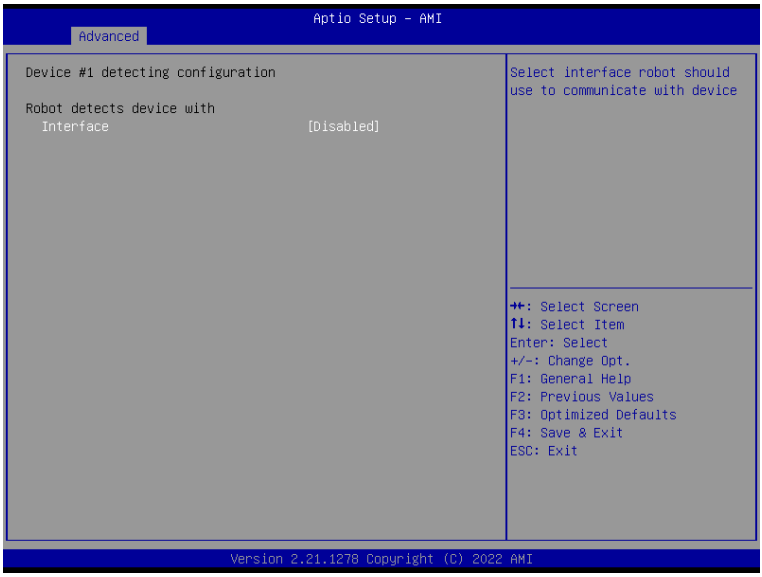
  WARNING: Before enabling this function, a program in OS must be in responsible for clearing WDT. Also, this function should be disabled if OS is going to update itself.
- **Delayed POST (PEI phase)**
  Robot holds BIOS from starting POST, right after power. This allows BIOS POST to start with stable power or start after system is physically warmed-up.
- **Delayed POST (DXE phase)**
  Robot holds BIOS before POST completion. This allows BIOS POST to start with stable power or start after system is physically warmed-up.
- **Reset System once**
  Robot resets system for one time on each boot. This will send a soft or hard reset to onboard devices, thus puts devices to more stable state.

3.2.8.1. Device Detecting Configuration



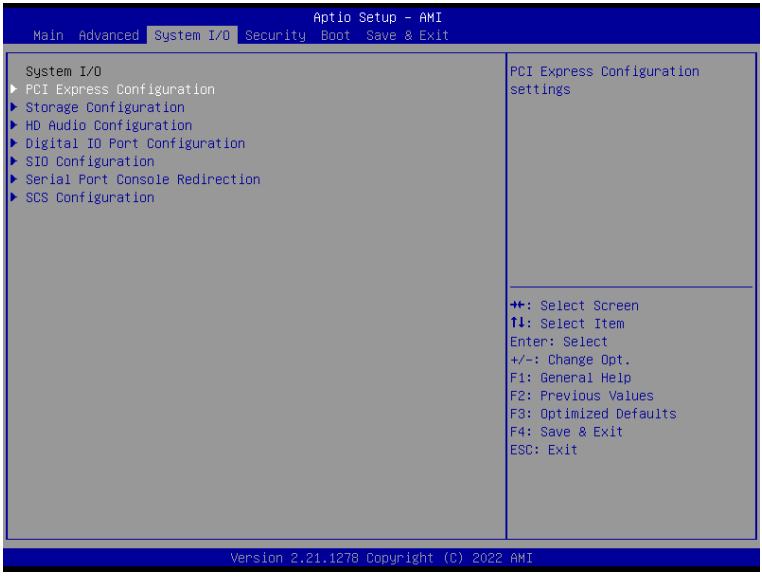
- **Action**
  Select action that robot should do.
- **Soft or hard reset**
  Select reset type robot should send on each boot.
- **Retry-Count**
  Robot will reset system at most counter times, and then let system continue its POST.
- **At time**
  Select robot action time.

3.2.8.1.1. Device #1~5 Detecting Configuration

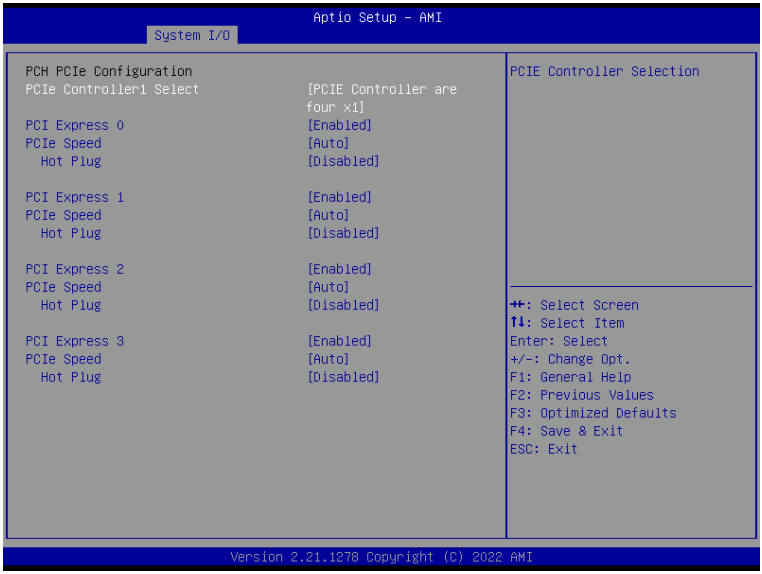


- **Robot detects device with Interface**
  Select interface robot should use to communication with device.

3.3. System I/O Setup

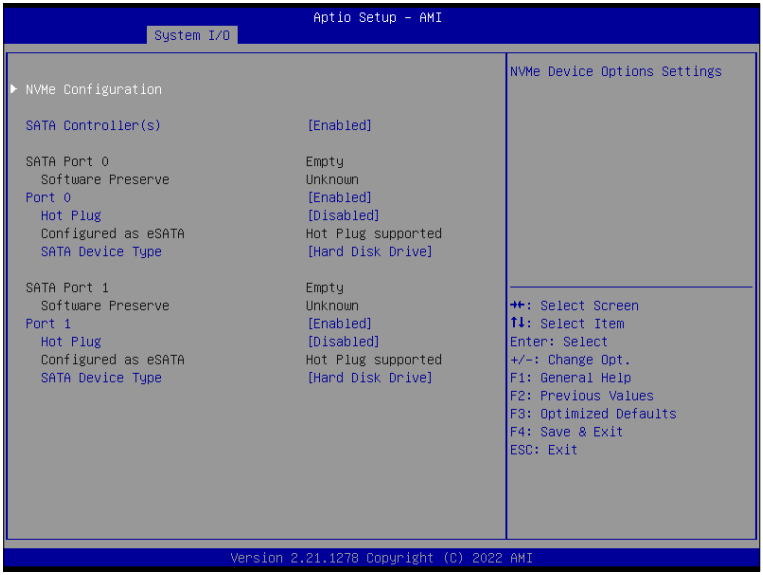


3.3.1. PCI Express Configuration



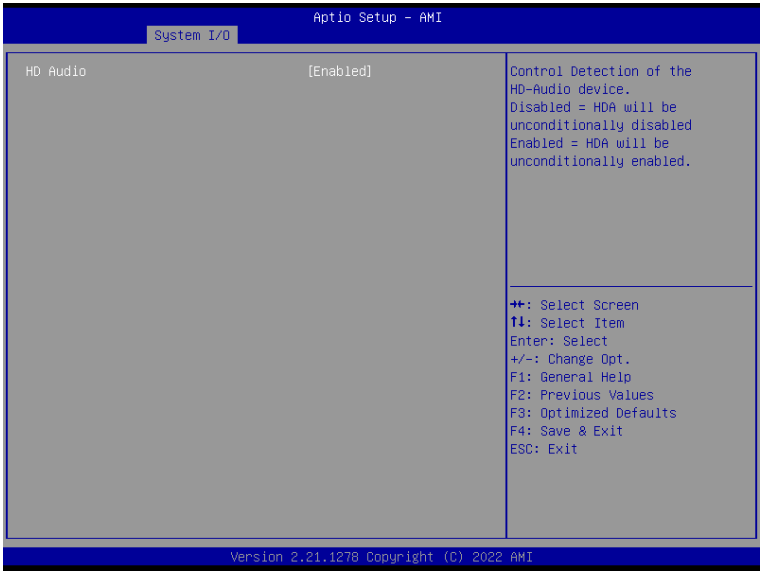
- **PCIe Controller1 Select**
  PCIE Controller Selection.
- **PCI Express 0/1/2/3**
  Control the PCI Express Root Port.
- **PCIe Speed**
  Configure PCIe Speed.
- **Hot Plug**
  PCI Express Hot Plug Enable/Disable.

3.3.2. Storage Configuration



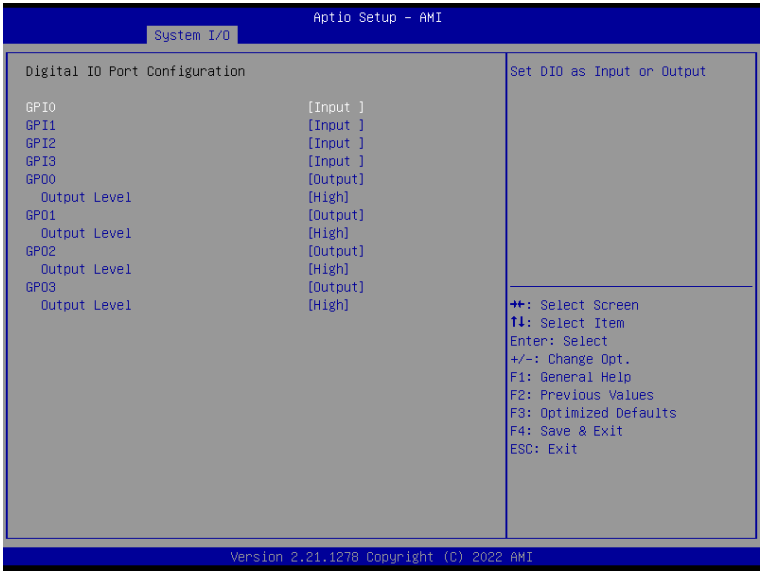
- **SATA Controller(s)**
  Enable/Disable SATA Device.
- **Port x**
  Enable or Disable SATA Port.
- **Hot Plug**
  Designates this port as Hot Pluggable.
- **SATA Device Type**
  Identify the SATA port is connected to Solid State Drive or Hard Disk Drive.

3.3.3. HD Audio Configuration



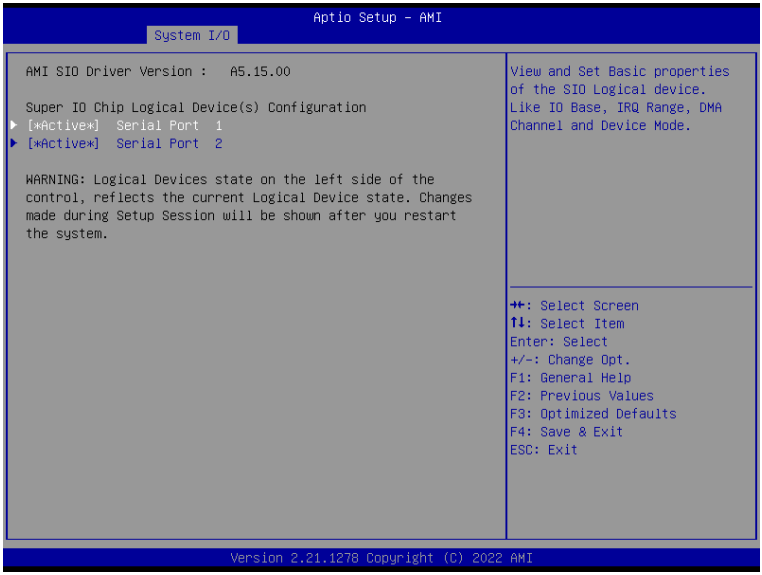
- **HD Audio**
  Control Detection of the HD-Audio device.

3.3.4. Digital IO Port Configuration

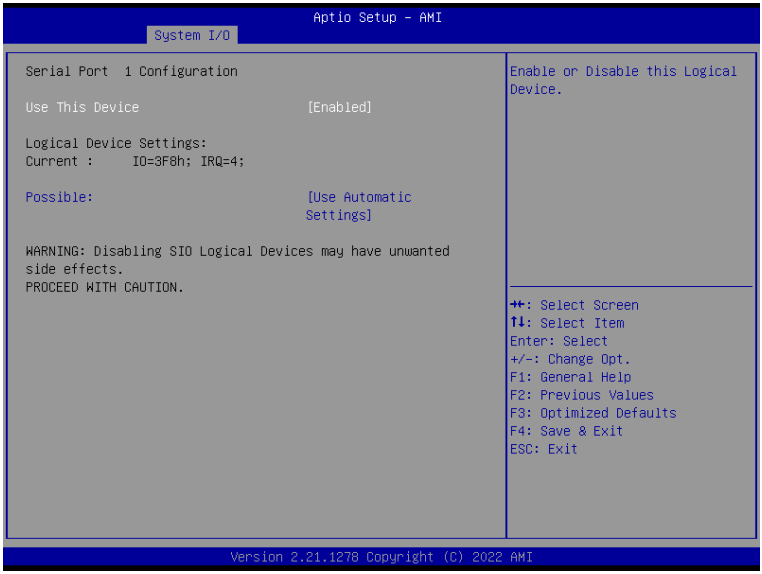


- **GPI0/1/2/3**
  GPO0/1/2/3
  Set DIO as Input or Output.
- **Output Level**
  Set output level when DIO pin is output.

3.3.5. SIO Configuration

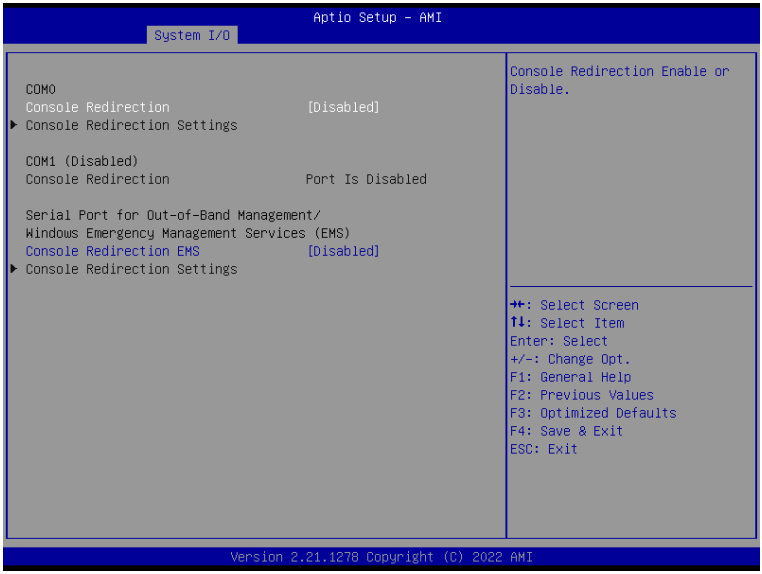


3.3.5.1. Serial Port x Configuration



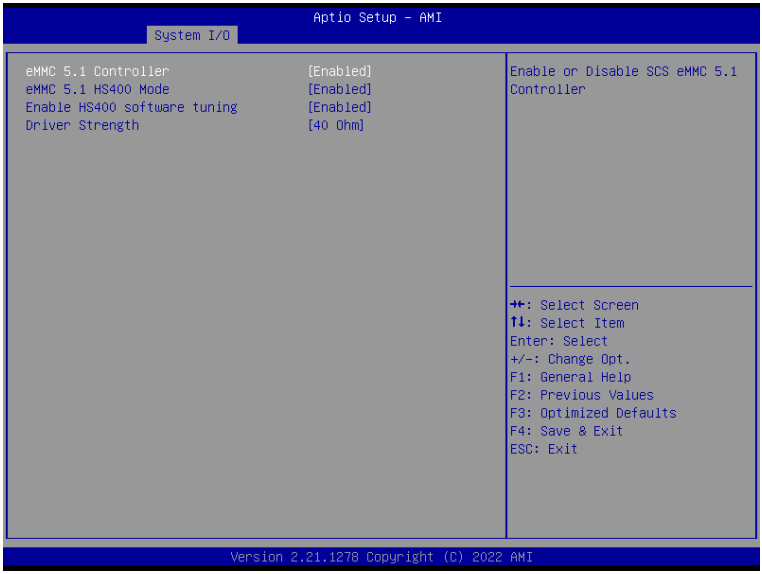
- **Use This Device**
  Enable or Disable this Logical Device.
- **Possible**
  Allows the user to change the device resource settings. New settings will be reflected on this setup page after system restarts.

3.3.6. Serial Port Console Redirection



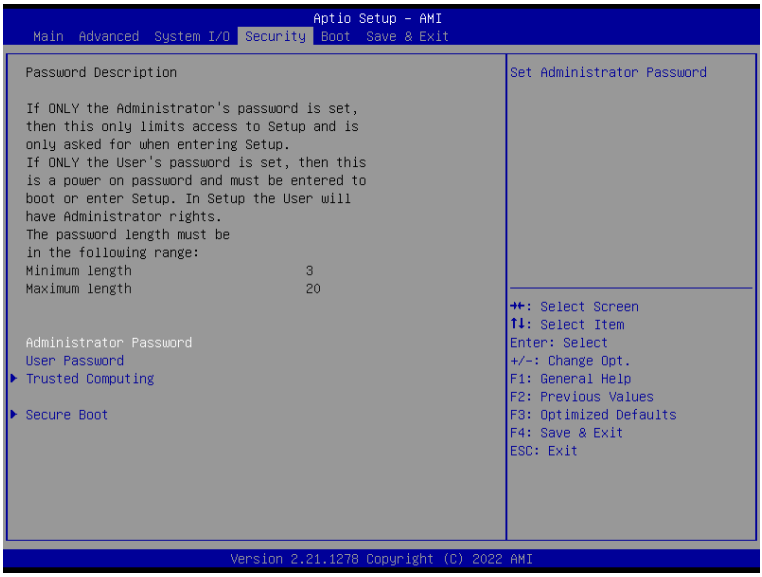
- **COM0 Console Redirection**
  Console Redirection Enable or Disable.
- **Console Redirection EMS**
  Serial Port for Out-of-Band Management/ Windows Emergency Management Services (EMS) Console Redirection Enable or Disable.

3.3.7. SCS Configuration



- **eMMC 5.1 Controller**
  Enable or Disable SCS eMMC 5.1 Controller
- **eMMC 5.1 HS400 Mode**
  Enable or Disable SCS eMMC 5.1 HS400 Mode
- **Enable HS400 software tuning**
  Software tuning should improve eMMC HS400 stability at the expense of boot time
- **Driver Strength**
  Sets I/O driver strength

3.4. Security Setup

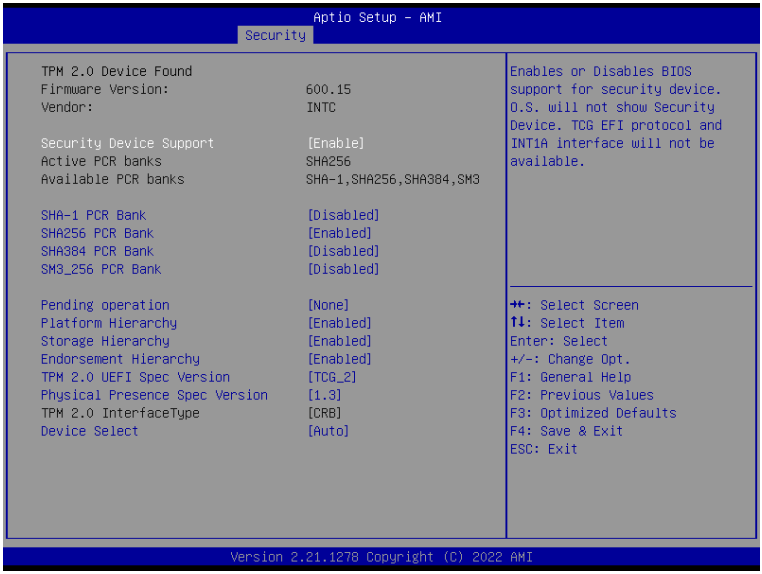


- **Change User/Administrator Password**
  You can set an Administrator Password or User Password. An Administrator Password must be set before you can set a User Password. The password will be required during boot up, or when the user enters the Setup utility. A User Password does not provide access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

  Select the password you wish to set, and press Enter. In the dialog box, enter your password (must be between 3 and 20 letters or numbers). Press Enter and retype your password to confirm. Press Enter again to set the password.

- **Removing the Password**
  Select the password you want to remove and enter the current password. At the next dialog box press Enter to disable password protection.

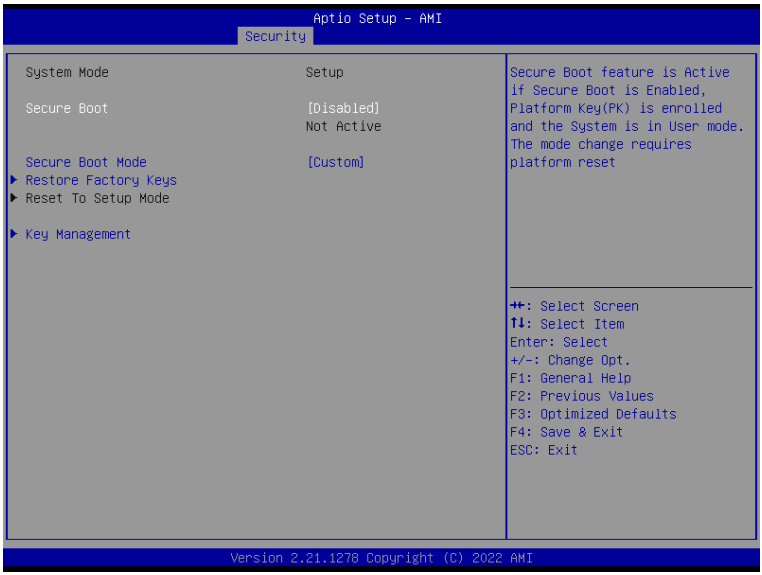
3.4.1. Trusted Computing



- **Security Device Support**
  Enable or Disable BIOS support for security device.
- **SHA-1 PCR Bank**
  Enable or Disable SHA-1 PCR Bank.
- **SHA256 PCR Bank**
  Enable or Disable SHA256 PCR Bank.
- **SHA384 PCR Bank**
  Enable or Disable SHA384 PCR Bank.
- **SM3_256 PCR Bank**
  Enable or Disable SM3_256 PCR Bank.
- **Pending operation**
  Schedule an operation for the security device.
- **Platform Hierarchy**
  Enable or Disable Platform Hierarchy
- **Storage Hierarchy**
  Enable or Disable Storage Hierarchy
- **Endorsement Hierarchy**
  Enable or Disable Endorsement Hierarchy
- **TPM2.0 UEFI Spec Version**
  Select the TCG2 Select Version Support

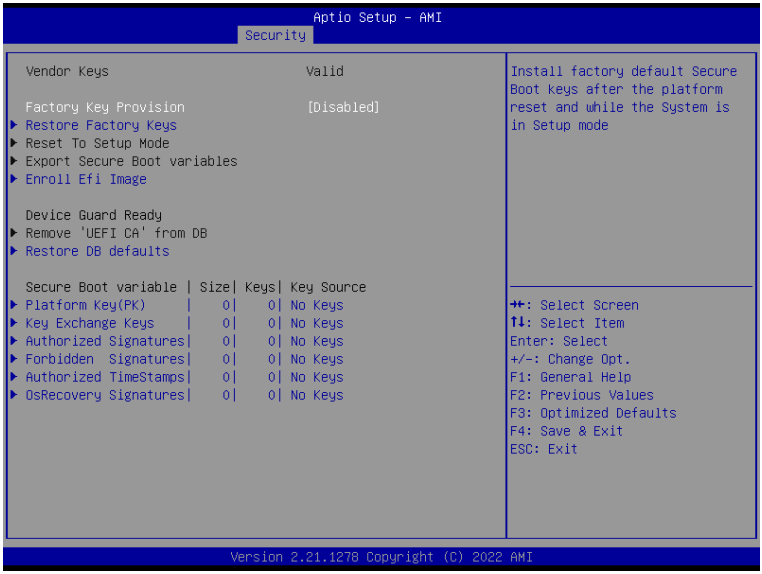
- **Physical Presence Spec Version**
  Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3.
- **Device Select**
  Device select

3.4.2. Secure Boot

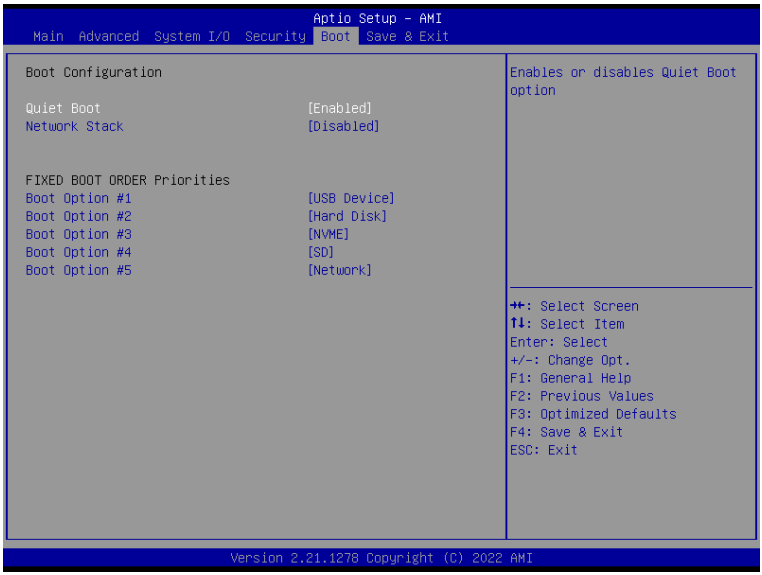


- **Secure Boot**
  Secure Boot feature is Active if Secure is Enabled, Platform Key (PK) is enrolled and the System is in User mode. The mode change requires platform reset.
- **Secure Boot Mode**
  Secure Boot mode selector.

3.4.2.1. Key Management



3.5. Boot Setup

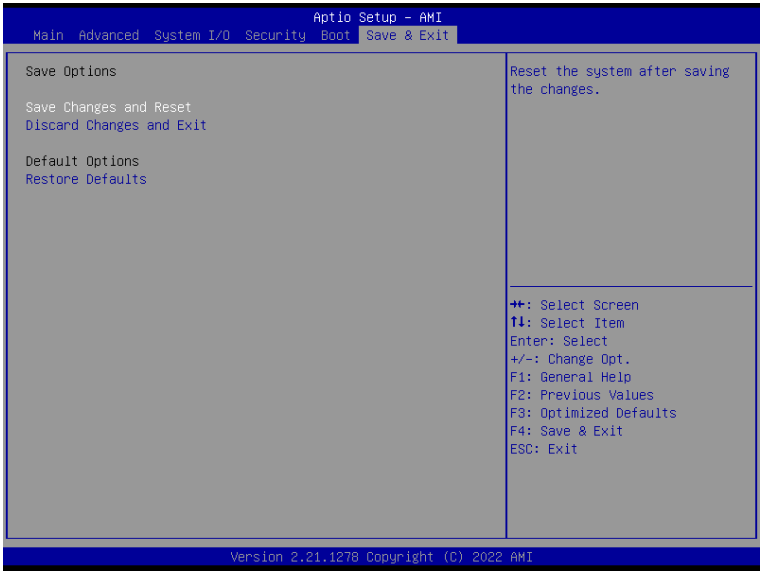


- **Quiet Boot**
  Enable or Disable showing boot logo.

- **Network Stack**
  Enable/Disable UEFI Network Stack.

- **Boot Option #1**
  Boot Option #2
  Boot Option #3
  Boot Option #4
  Boot Option #5
  Sets the system boot order for FIXED BOOT ORDER Priorities.

3.6. Save & Exit Setup



4. Drivers Installation

4.1. Driver Download and Installation

Drivers for the ACM-EL6KE0-Ax can be downloaded from the product page on the Acrosser website by following this link:

https://www.acrosser.com/en/Support/Download/

Download the driver(s) you need and follow the steps below to install them.

- **Step 1 – Install Chipset Drivers**
  1. Open the Chipset Driver folder
  2. Run the SetupChipset.exe file
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Step 2 – Install Graphics Driver**
  1. Open the Graphics Driver folder.
  2. Run the igxpin.exe file in the folder
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Step 3 – Install LAN Drivers***

  Note: The download package has been split into a driver package and an Intel® PROSet package. The driver package must be installed prior to installing the Intel® PROSet package.

  LAN Driver Installation:

  1. Open the LAN Drivers folder
  2. Run the Wired_driver_27.3_x64.exe file
  3. Follow the instructions
  4. Drivers will be installed automatically

  Intel® PROSet Installation:

  1. Open the LAN Drivers folder
  2. Run the Wired_PROSet_27.3_x64.exe file
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Step 4 – Install ME Drivers**
  1. Open the ME Drivers folder
  2. Run the SetupME.exe file

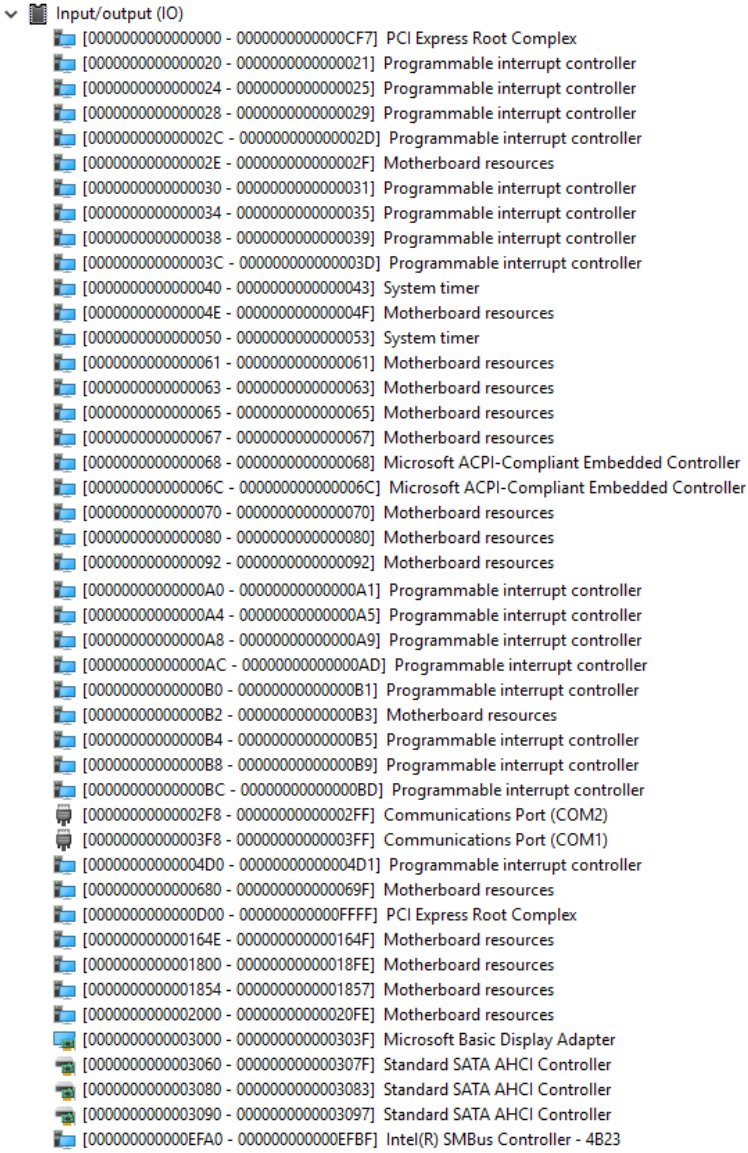
3. Follow the instructions
4. Drivers will be installed automatically

- **Step 5 – Install Audio Drivers**
  1. Open the Audio Drivers folder
  2. Run the Setup.exe file
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Step 6 – Install Serial I/O Drivers**
  1. Open the Serial IO Drivers followed by the folder for the drivers you want to install
  2. Follow the instructions in the .inf files to install drivers
- **Step 7 – Install Intel® PSE Drivers (Optional)**
  1. Open the Intel® PSE Drivers folder followed by the folder for the drivers you want to install
  2. Follow the instructions in the .inf files to install drivers
- **Step 8 – Install Intel® Peripheral Drivers**
  1. Open Intel® Peripheral Drivers folder followed by the folder for the drivers you want to install
  2. Follow the instructions in the .inf files to install drivers

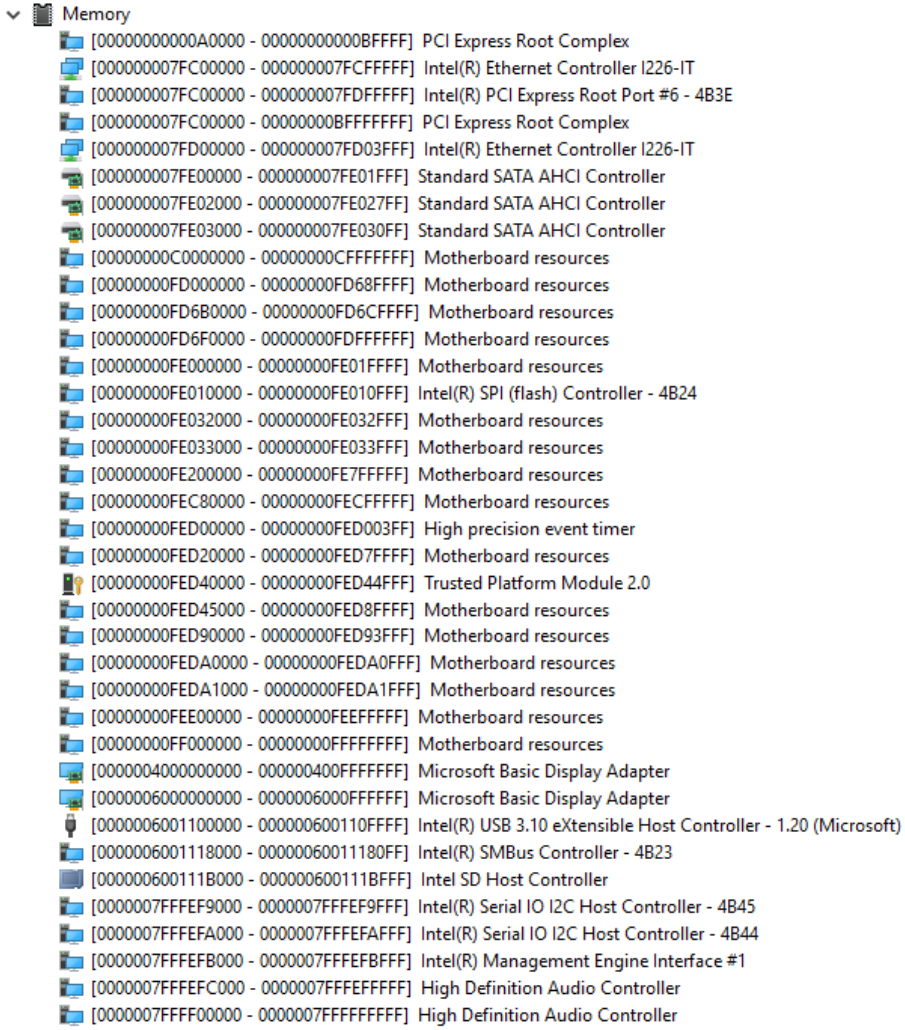
5. Appendix

5.1. I/O Information

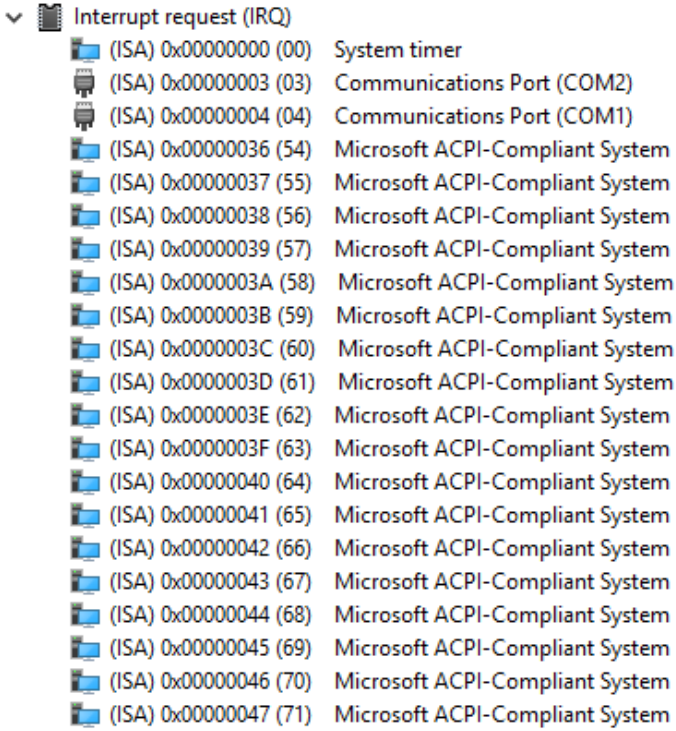
5.1.1. I/O Address Map



5.1.2. Memory Address Map



5.1.3. IRQ Mapping Chart



6. FAQ

Q 1. Where can I find the serial number of this product?

- The serial number (S/N) is a label printed with alpha-numeric character. You can find the S/N label on the bottom of this product or on its packing box.

Technical Support Form

We deeply appreciate your purchase of Acrosser products. Please find the "**tech_form.doc**" file in our utility CD. If you have any questions or problems about Acrosser products, please fill in the following information. We will answer your questions in the shortest time possible.

Describe Your Info and Acrosser System Info

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

  _____
- Acrosser Model Name: _____
- Acrosser Serial Number: _____

Describe System Configuration

- CPU Type: _____
- Memory Size: _____
- Storage Device (e.g. HDD, CF, or SSD): _____
- Additional Peripherals (e.g. Graphic Card): _____
- Operating System & Version (e.g. Windows 7 Embedded): _____
- Special API or Driver: _____

  (If yes, please provide it for debug.)
- Running Applications: _____
- Others: _____

Describe Your Problems or Questions:

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

- Acrosser Local Sales Representative
- Acrosser Authorized Sales Channels
- Acrosser Inquiry --- http://www.acrosser.com/inquiry.html
- Acrosser FAX Number --- 886-2-29992887

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