



de next-RAP8-EZBOX

de next System

User's Manual 1st Ed

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Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
de next-RAP8-EZBOX	1
Wall Mount Bracket & Screws	1
Thermal Pad	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

About this Document

This User’s Manual contains all the essential information, such as detailed descriptions and explanations on the product’s hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the product page at AAEON.com for the latest version of this document.

Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any AC supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent falls.
12. Do not cover the openings on the device to ensure optimal heat dissipation.
13. Watch out for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running.
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

17. If any of the following situations arises, please the contact our service personnel:
 - i. Damaged power cord or plug
 - ii. Liquid intrusion to the device
 - iii. Exposure to moisture
 - iv. Device is not working as expected or in a manner as described in this manual
 - v. The device is dropped or damaged
 - vi. Any obvious signs of damage displayed on the device
18. **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.**

FCC Statement

Warning!



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

产品中有毒有害物质或元素名称及含量

AAEON System

QO4-381 Rev.A2

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
外壳	○	○	○	○	○	○
中央处理器 与内存	×	○	○	○	○	○
硬盘	×	○	○	○	○	○
液晶模块	×	○	○	○	○	○
光驱	×	○	○	○	○	○
触控模块	×	○	○	○	○	○
电源	×	○	○	○	○	○
电池	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。

×：表示该有害物质的某一均质材料超出了 GB/T 26572 的限量要求，然而该部件仍符合欧盟指令 2011/65/EU 的规范。

环保使用期限(EFUP (Environmental Friendly Use Period))：10 年

备注：

一、此产品所标示之环保使用期限，系指在一般正常使用状况下。

二、上述部件物质中央处理器、内存、硬盘、光驱、电源为选购品。

三、上述部件物质液晶模块、触控模块仅一体机产品适用。

China RoHS Requirement (EN)

Name and content of hazardous substances in product

AAEON System

QO4-381 Rev.A2

Part Name	Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB Assemblies	×	○	○	○	○	○
Connector and Cable	×	○	○	○	○	○
Chassis	○	○	○	○	○	○
CPU and Memory	×	○	○	○	○	○
Hard Disk	×	○	○	○	○	○
LCD Modules	×	○	○	○	○	○
CD-ROM/DVD-ROM	×	○	○	○	○	○
Touch Modules	×	○	○	○	○	○
Power	×	○	○	○	○	○
Battery	×	○	○	○	○	○

The table is prepared in accordance with the provisions of SJ/T 11364.

○ : Indicates that said hazardous substance contained in all of the homogenous materials for this product is below the limit requirement of GB/T 26572.

× : Indicates that said hazardous substance contained in at least one of the homogenous materials used for this part is above the limit requirement of GB/T 26572. But this product still be compliance with 2011/65/EU Directive (allowed with 2011/65/EU Annex III of RoHS exemption with number 6(c),7(a),7(c)-1).

EFUP (Environment Friendly Use Period) value: 10 years.

Notes:

1. This product defined period of use is under normal condition.

2. In above part, CPU/Memory/ Hard Disk/CD-ROM/DVD-ROM/ Power are optional.

3. In above part, LCD Modules/ Touch Modules are for all-in-one product model.

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Chapter 1

Product Specifications

1.1 Specifications

System

Form Factor	de next System
CPU	Onboard 13th Gen Intel® Core™ Processor: Intel® Core™ i7-1365UE (10C/12T, 1.70 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory Type	Onboard LPDDR5x, up to 16GB
BIOS	UEFI
Wake On LAN	Yes
Watchdog Timer	255 Levels
Security	fTPM
RTC Battery	Lithium Battery 3V/240mAh
Dimension	3.75" x 2.73" x 1.78" (95.5mm x 69.5mm x 45.4mm) with Cooler 3.75" x 2.73" x 1.67" (95.5mm x 69.5mm x 42.5mm) with Heatsink
OS Support	Windows 10 (64-bit) Ubuntu 22.04.5 Kernel 6.8.0-52-generic x86_64

Power

Power Requirement	+12V
Power Supply Type	AT/ATX
Connector	DC Jack Connector

Power

Power Consumption	Intel® Core™ i7-1365UE, LPDDR4x 16GB, 3.18A @12V, 38.16W (Typical) Intel® Core™ i7-1365UE, LPDDR4x 16GB, 3.36A @12V, 39.16W (Max)
-------------------	--

Display

Controller	Intel® UHD Graphics for 11th Gen Intel® Processors
LVDS/eDP	-
Display Interface	HDMI 1.4b x 1
Multiple Display	-

Audio

Codec	-
Audio Interface	-
Speaker	-

External I/O

Ethernet	Intel® Ethernet Controller I226, 2.5GbE RJ-45 x 1 Intel® Ethernet Connection I219, 1GbE RJ-45 x 1
USB	USB 3.2 Gen 2 x 2
Serial Port	-
Video	HDMI 1.4b x 1

Internal I/O

USB	-
Serial Port	-
Video	-
SATA	-
Audio	-
DIO/GPIO	-
SMBus/I2C	-
Touch	-
Fan	4-Pin Smart Fan (with Cooler version only)
SIM	-
Front Panel	-

Expansion

Mini PCIe/mSATA	-
M.2	M.2 2280 M-Key x 1 (PCIe [x2] x 1 or PCIe [x1] x 2, selected by BIOS)
Others	-

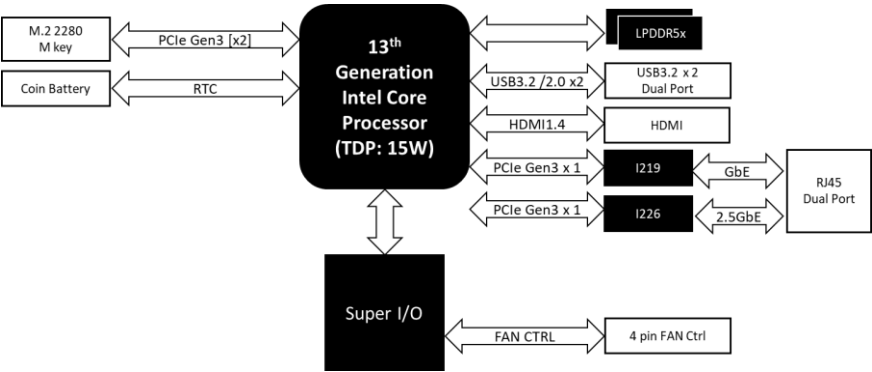
Environmental

Operating Temperature	14°F – 122°F (-10°C – 50°C) with 0.7m/sec air flow
Storage Temperature	-40°F – 185°F (-40°C – 85°C)
Operating Humidity	0% – 90% relative humidity, non-condensing

Environmental

MTBF (Hours)	609,263
EMC	CE/FCC Class A

1.2 Block Diagram

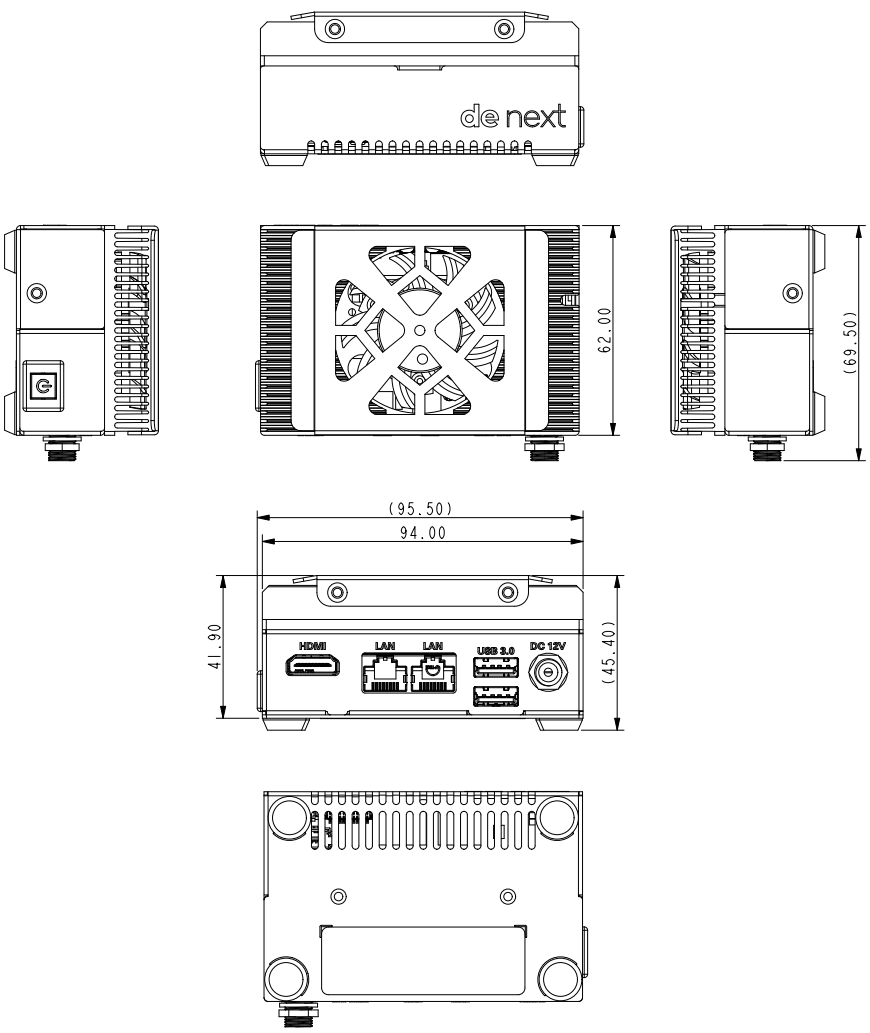


Chapter 2

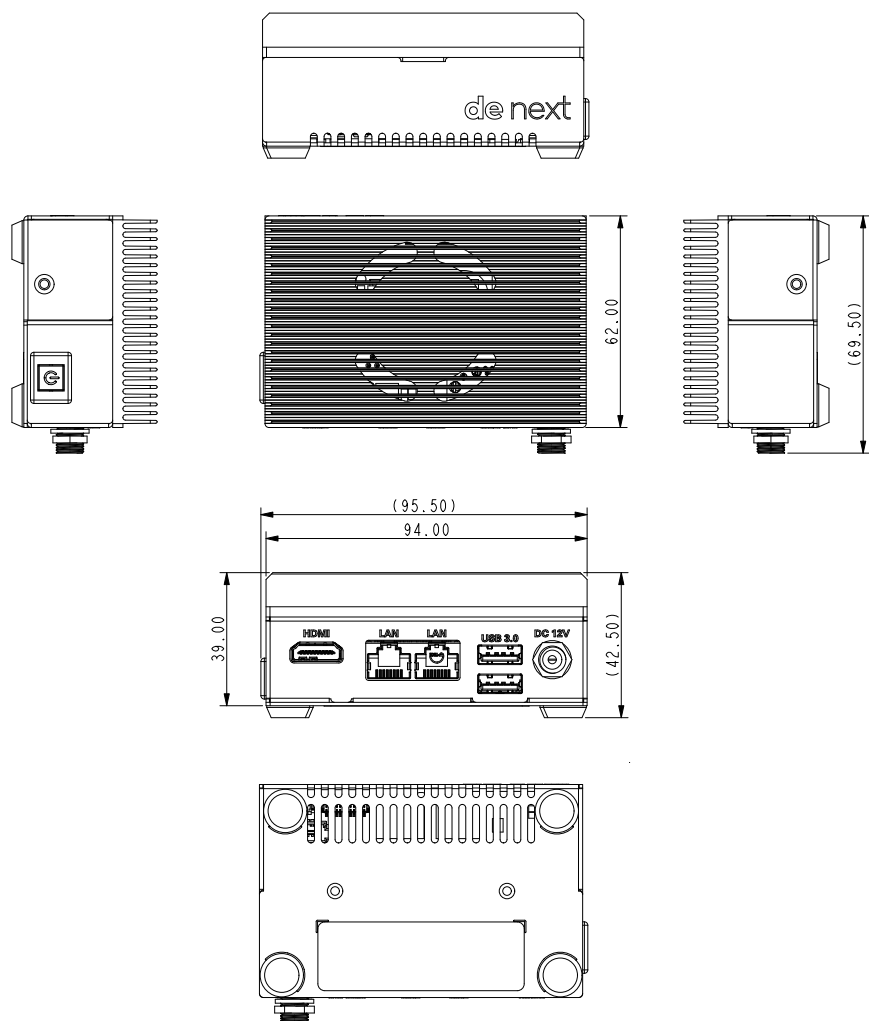
Hardware Information

2.1 Dimensions

With Cooler

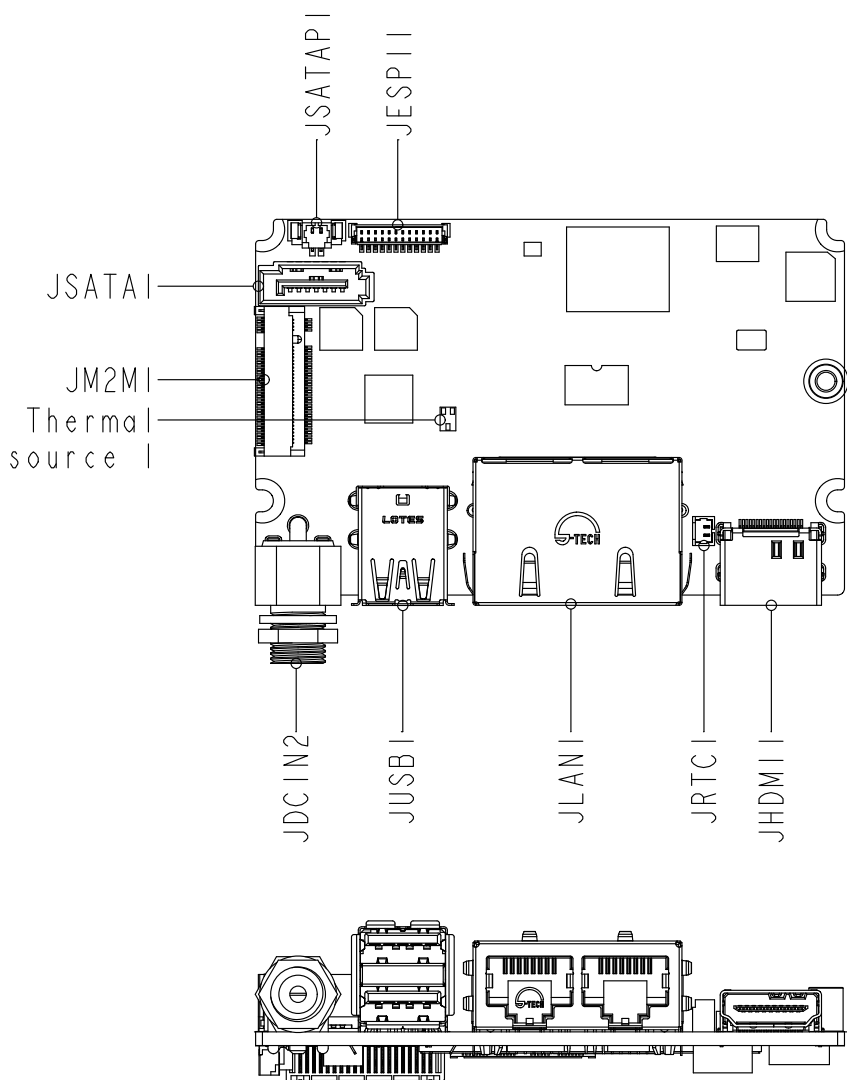


With Heatsink

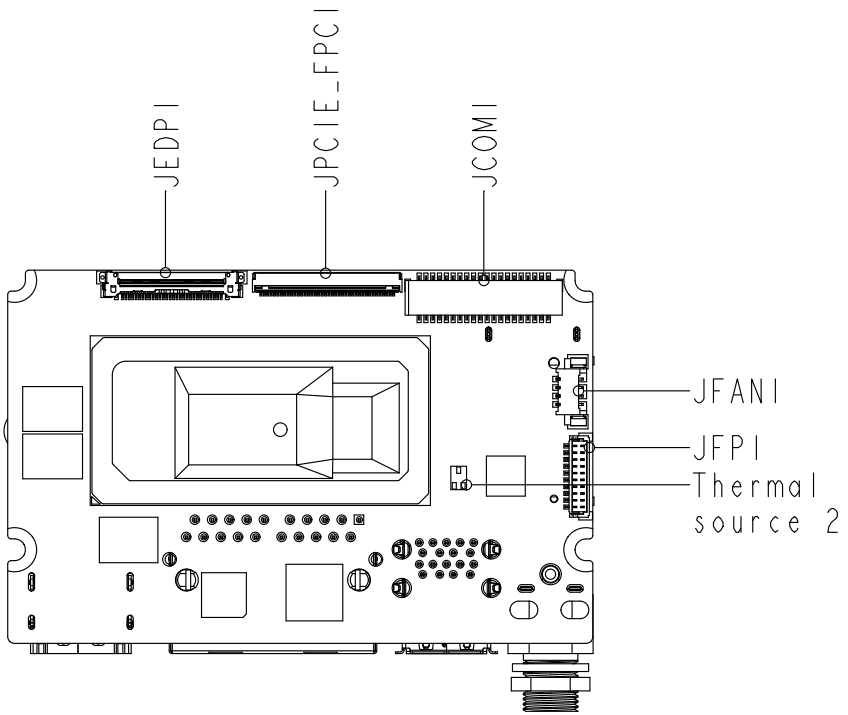


2.2 Jumpers and Connectors

Top View



Bottom View

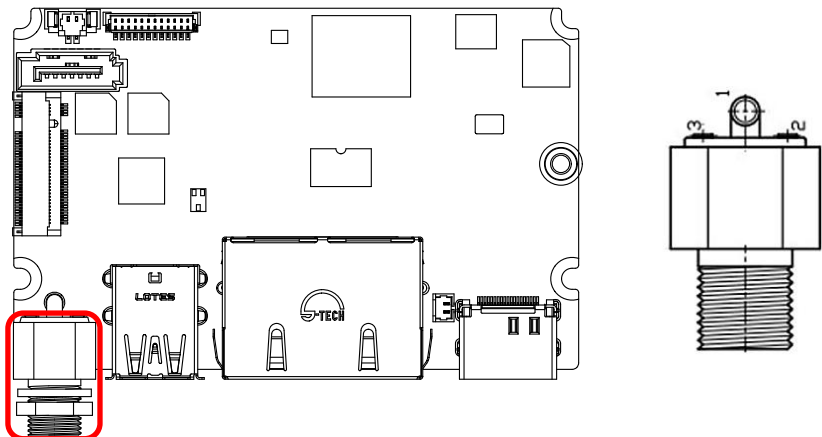


2.3 List of Connectors

Please refer to the table below for all of the board's connectors that you can configure for your application

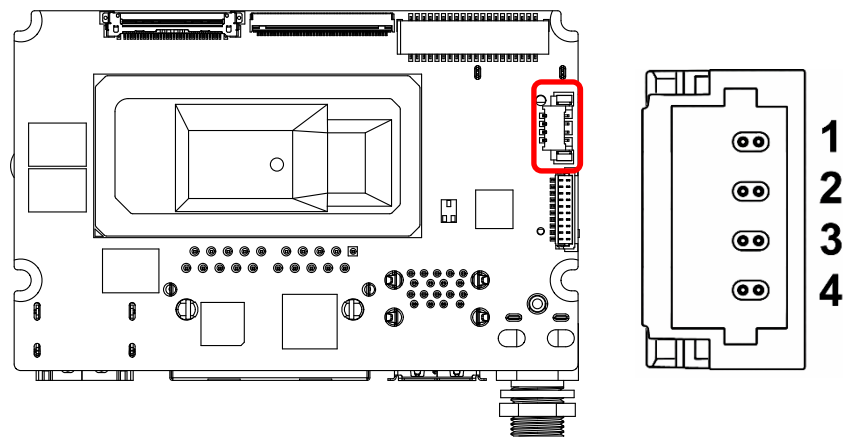
Label	Function
JDCIN2	DC In
JFAN1	FAN
JHDMI1	HDMI
JLAN1	LAN
JM2M1	M.2 2280 M-Key
JRTC1	RTC Battery
JUSB1	USB 3.2 Gen 2

2.3.1 DC In (JDCIN2)



Pin	Pin Name	Signal Type
1	+VIN	PWR
2	GND	GND

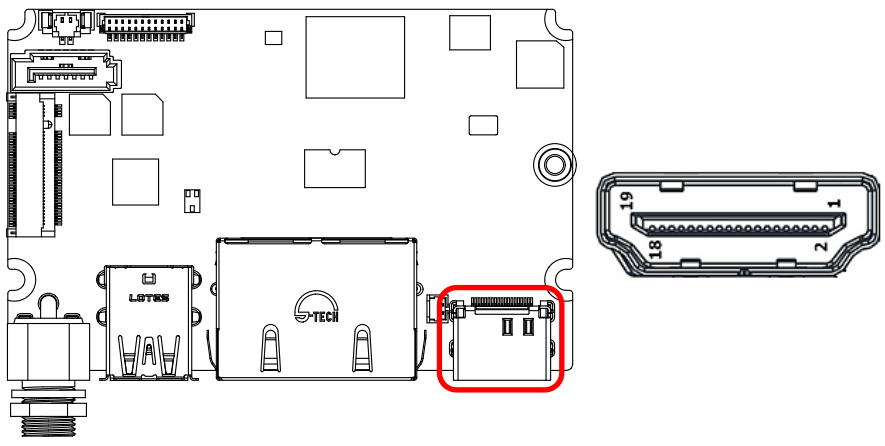
2.3.2 FAN (JFAN1)



Pin	Pin Name	Signal Type
1	GND	GND
2	+V12S	PWR

Pin	Pin Name	Signal Type
3	FAN_1_TAC_CON	I/O
4	FAN_1_CTL_CON	I/O

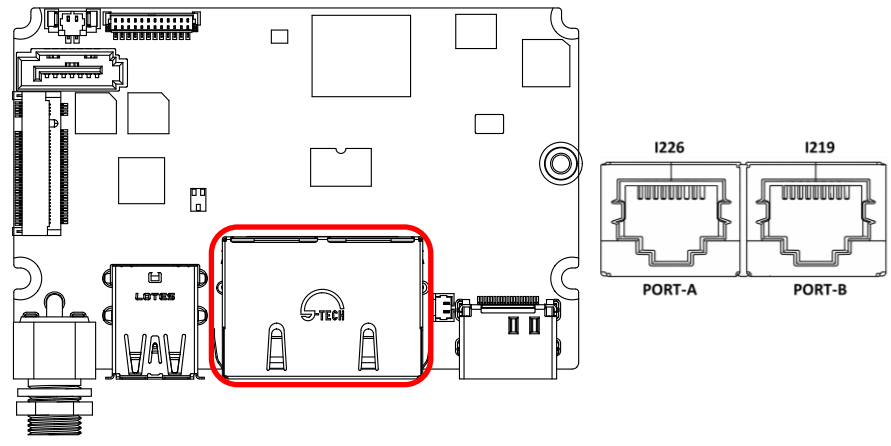
2.3.3 HDMI (JHDMI1)



Pin	Pin Name	Signal Type
1	HDMI1_D2_DP_CM	I/O
2	GND	GND
3	HDMI1_D2_DN_CM	I/O
4	HDMI1_D1_DP_CM	I/O
5	GND	GND
6	HDMI1_D1_DN_CM	I/O
7	HDMI1_D0_DP_CM	I/O
8	GND	GND
9	HDMI1_D0_DN_CM	I/O
10	HDMI1_CLK_DP_CM	I/O
11	GND	GND
12	HDMI1_CLK_DN_CM	I/O
13	NC	-
14	NC	-
15	HDMI1_SCL	I/O
16	HDMI1_SDA	I/O
17	GND	GND
18	+V5S_HDMI	PWR

Pin	Pin Name	Signal Type
19	HDMI1_HPD	I/O

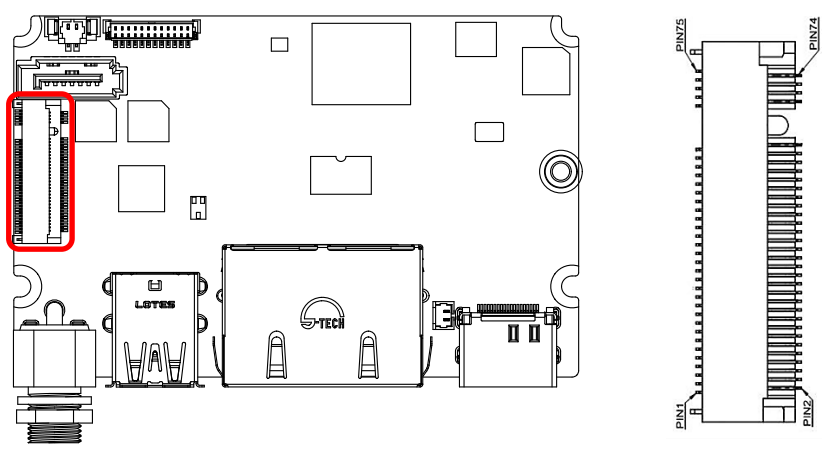
2.3.4 LAN (JLAN1)



Pin	Pin Name	Signal Type
1P1	LAN2_MDI0P	I/O
1P2	LAN2_MDI0N	I/O
1P3	LAN2_MDI1P	I/O
1P4	LAN2_MDI1N	I/O
1P5	LAN2_CT	I/O
1P6	LAN2_CT	I/O
1P7	LAN2_MDI2P	I/O
1P8	LAN2_MDI2N	I/O
1P9	LAN2_MDI3P	I/O
1P10	LAN2_MDI3N	I/O
2P1	LAN1_MDI0P	I/O
2P2	LAN1_MDI0N	I/O
2P3	LAN1_MDI1P	I/O
2P4	LAN1_MDI1N	I/O
2P5	LAN1_CT	I/O
2P6	LAN1_CT	I/O
2P7	LAN1_MDI2P	I/O
2P8	LAN1_MDI2N	I/O
2P9	LAN1_MDI3P	I/O

Pin	Pin Name	Signal Type
2P10	LAN1_MDI3N	I/O

2.3.5 M.2 2280 M-Key (JM2M1)

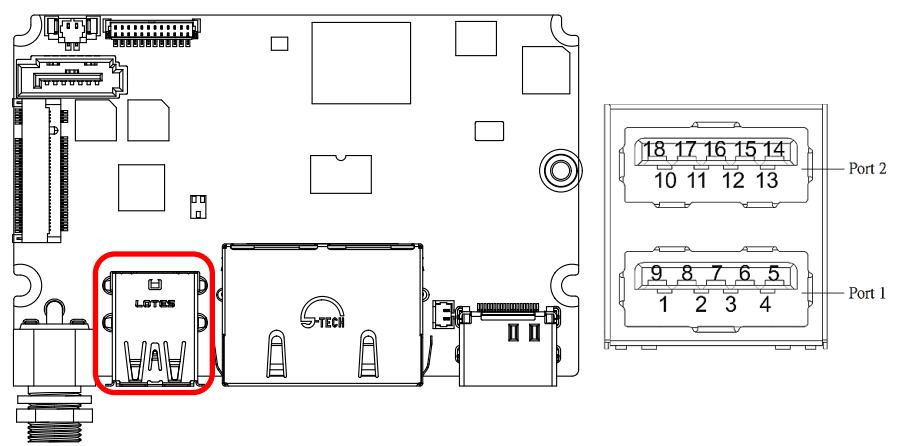


Pin	Pin Name	Signal Type
1	GND	GND
2	+V3P3S	PWR
3	GND	GND
4	+V3P3S	PWR
5	NC	-
6	CARD_PWR_EN_R	I/O
7	NC	-
8	NC	-
9	GND	GND
10	NC	-
11	NC	-
12	+V3P3S	PWR
13	NC	-
14	+V3P3S	PWR
15	GND	GND
16	+V3P3S	PWR
17	NC	-
18	+V3P3S	PWR
19	NC	-

Pin	Pin Name	Signal Type
20	NC	-
21	GND	GND
22	NC	-
23	NC	-
24	NC	-
25	NC	-
26	NC	-
27	GND	GND
28	NC	-
29	PCIE4_1_RXN	I/O
30	NC	-
31	PCIE4_1_RXP	I/O
32	NC	-
33	GND	GND
34	NC	-
35	PCIE4_1_TXN_M2	I/O
36	NC	-
37	PCIE4_1_TXP_M2	I/O
38	NC	-
39	GND	GND
40	M2M_SMB_CLK	I/O
41	PCIE4_0_RXN	I/O
42	M2M_SMB_DATA	I/O
43	PCIE4_0_RXP	I/O
44	NC	-
45	GND	GND
46	NC	-
47	PCIE4_0_TXN_M2	I/O
48	NC	-
49	PCIE4_0_TXP_M2	I/O
50	BUF_PLT_RST#	I/O
51	GND	GND
52	NC	I/O
53	PCIE_0_CLK_DN	I/O
54	PCIE_WAKE#	I/O
55	PCIE_0_CLK_DP	I/O
56	NC	-
57	GND	GND
58	NC	-

Pin	Pin Name	Signal Type
59	NC	-
67	NC	-
68	M2M_SSCLK	I/O
69	NC	-
70	+V3P3S	PWR
71	GND	GND
72	+V3P3S	PWR
73	GND	GND
74	+V3P3S	PWR
75	GND	GND

2.3.6 USB 3.2 (JUSB1)



Pin	Pin Name	Signal Type
1	+V5A_USB12	PWR
2	USB2_1_DN_CM	I/O
3	USB2_1_DP_CM	I/O
4	GND	GND
5	USB31_1_RXN_CM	I/O
6	USB31_1_RXP_CM	I/O
7	GND	GND
8	USB31_1_TXN_CM	I/O
9	USB31_1_TXP_CM	I/O
10	+V5A_USB12	PWR

Pin	Pin Name	Signal Type
11	USB2_2_DN_CM	I/O
12	USB2_2_DP_CM	I/O
13	GND	GND
14	USB31_2_RXN_CM	I/O
15	USB31_2_RXP_CM	I/O
16	GND	GND
17	USB31_2_TXN_CM	I/O
18	USB31_2_TXP_CM	I/O

Chapter 3

AMI BIOS Setup

3.1 System Test and Initialization

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

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

There are three situations in which you will need to change the CMOS settings:

- You are starting your system for the first time
- You have changed your system's hardware
- The CMOS memory has lost power and the configuration information is erased

The system's CMOS memory uses a backup battery for data retention, which is to be replaced once emptied.

3.2 AMI BIOS Setup

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

To enter BIOS Setup, press 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 – Enable/ Disable System input and output port

Security – The setup administrator password can be set here

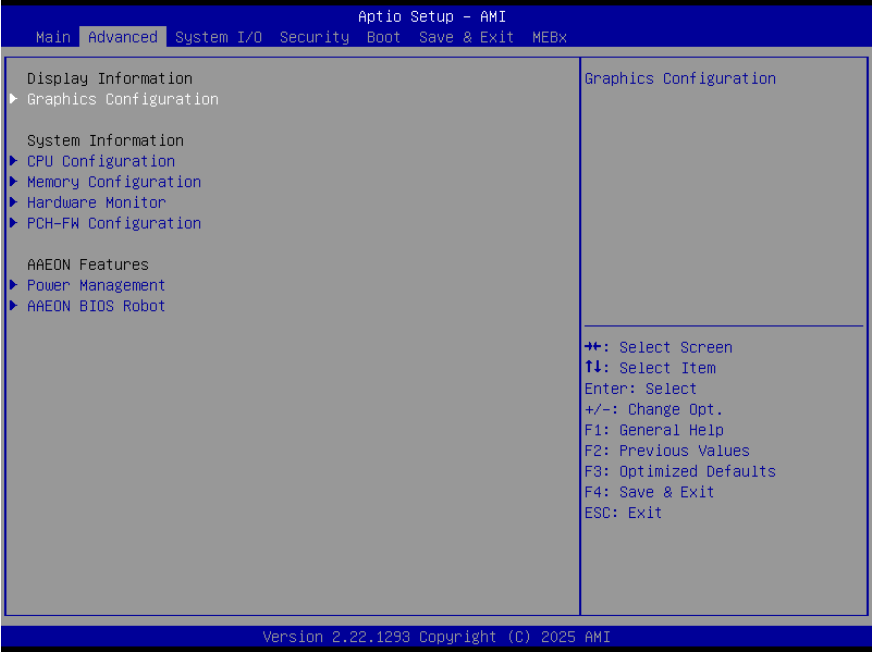
Boot – Enable/ Disable Quiet Boot Option

Save & Exit – Save your changes and exit the program

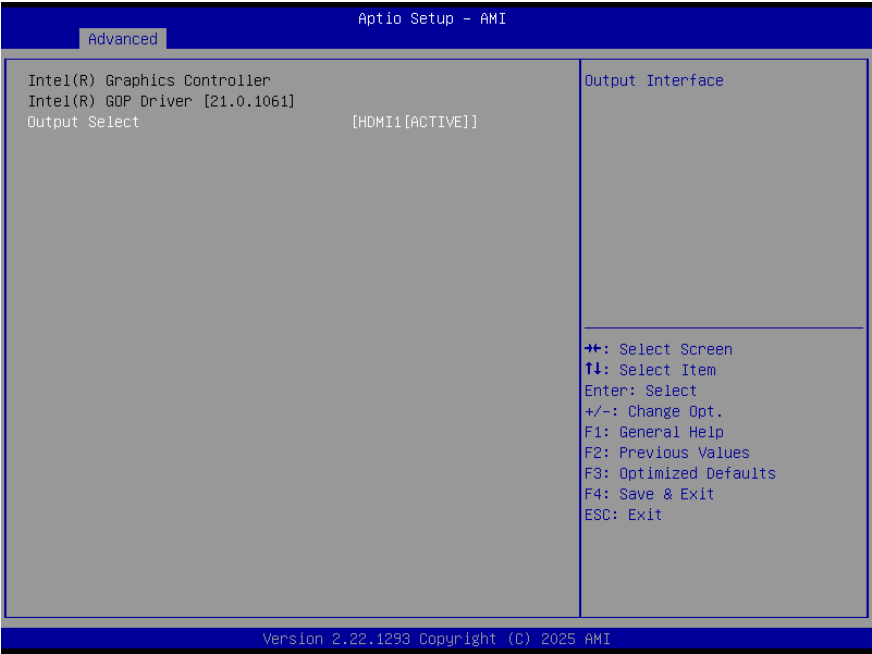
3.3 Setup Submenu: Main



3.4 Setup Submenu: Advanced

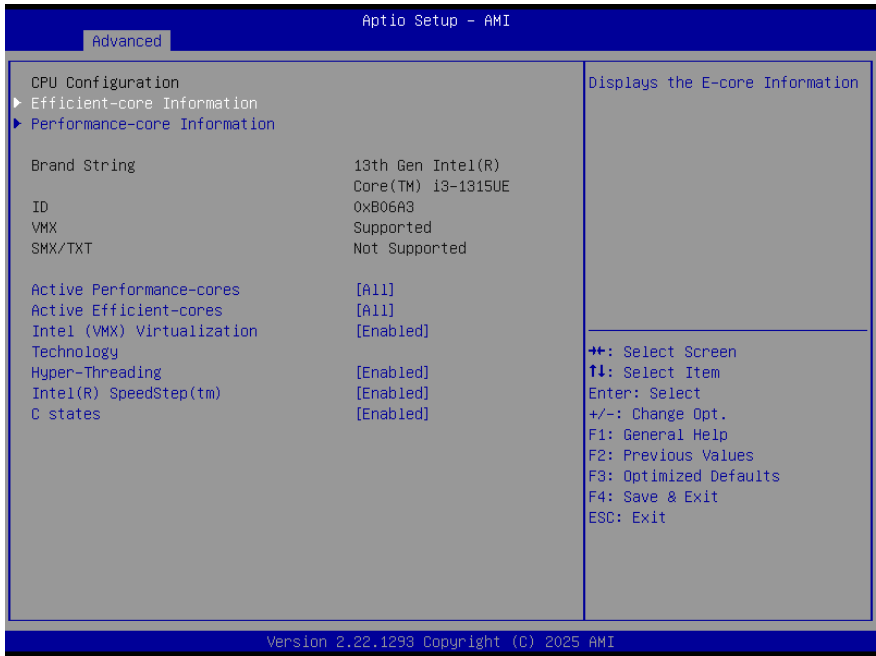


3.4.1 Graphics Configuration



Options Summary		
Output Select	HDMI1[ACTIVE]	Optimal Default, Failsafe Default
Output Interface.		

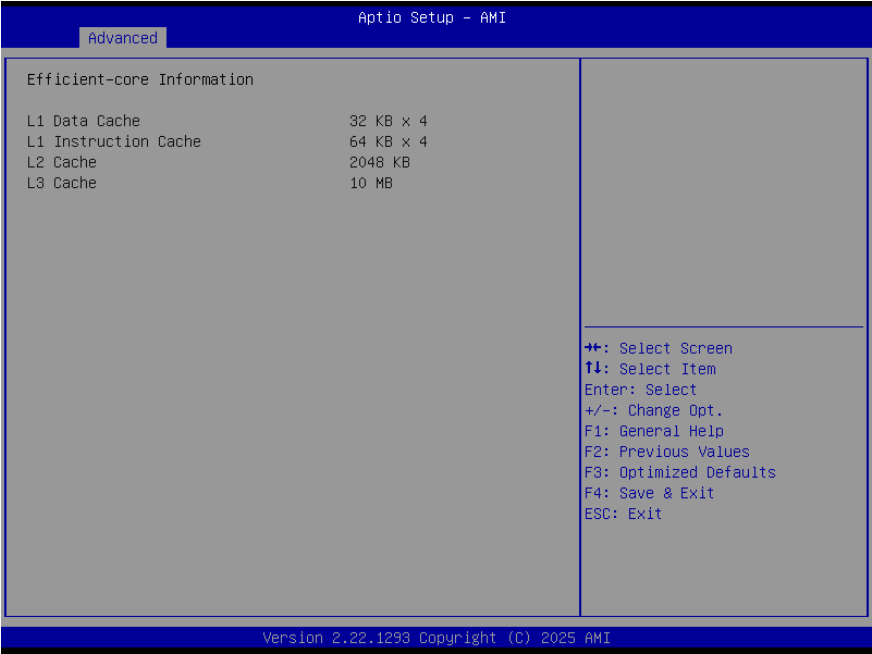
3.4.2 CPU Configuration



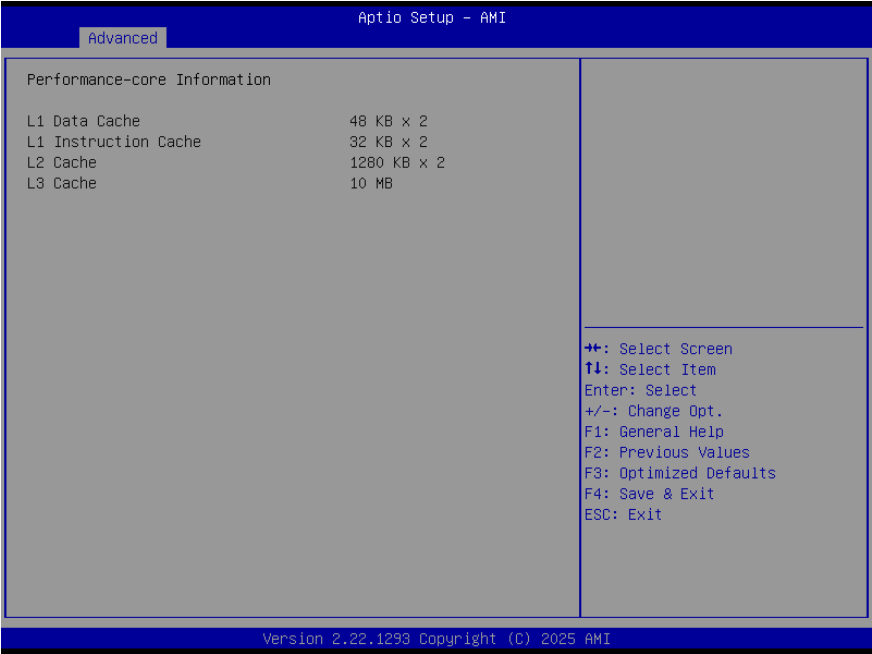
Options Summary		
Active Performance-cores	All	Optimal Default, Failsafe Default
	1	
Specifies the number of Performance cores (P-cores) to enable in each processor package.		
Note: The number of P-cores and E-cores is evaluated together. When both values are set to {0, 0}, the Pcode enables all cores.		
Active Efficient-cores	All	Optimal Default, Failsafe Default
	3	
	2	
	1	
	0	
Specifies the number of Efficient cores (E-cores) to enable in each processor package.		
Note: The number of P-cores and E-cores is evaluated together. When both values are set to {0, 0}, the Pcode enables all cores.		
Intel (VMX) Virtualization Technology	Disabled	
	Enabled	Optimal Default, Failsafe Default

Options Summary		
When enabled, a virtual machine monitor (VMM) can use the additional hardware capabilities provided by Vanderpool Technology.		
Hyper-Threading	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Hyper-Threading Technology.		
Intel® SpeedStep™	Disabled	
	Enabled	Optimal Default, Failsafe Default
Allows more than two frequency ranges to be supported.		
C states	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable/Disable CPU Power Management. Allows CPU to go to C states when it's not 100% utilized.		

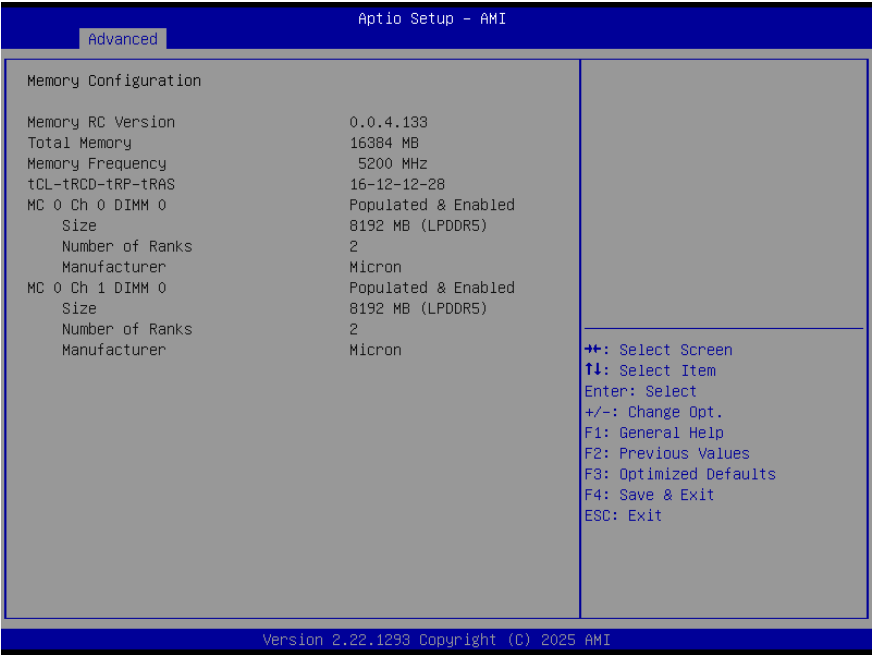
3.4.2.1 Efficient-core Information



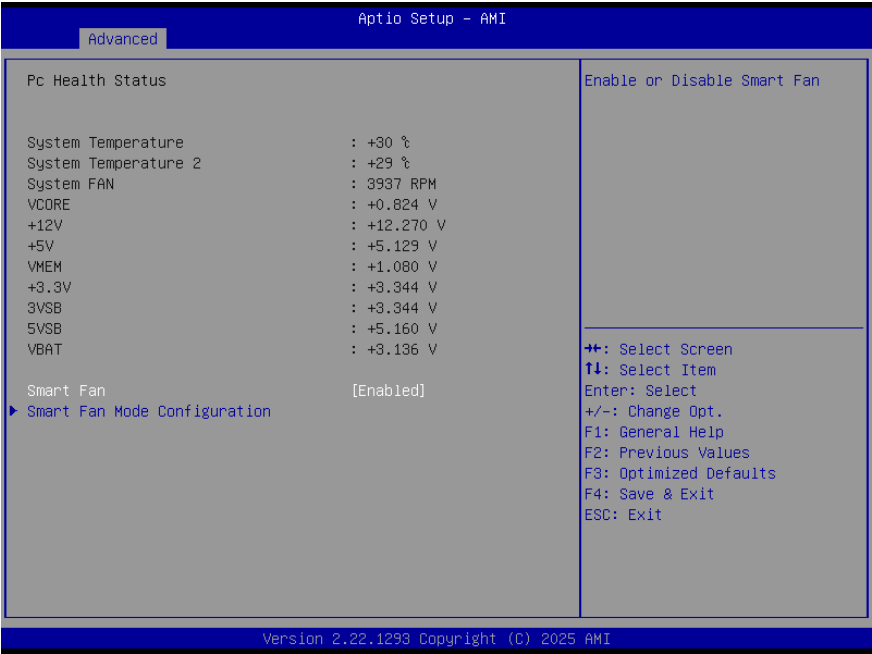
3.4.2.2 Performance-core Information



3.4.3 Memory Configuration



3.4.4 Hardware Monitor



Options Summary		
Smart Fan	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Smart Fan.		

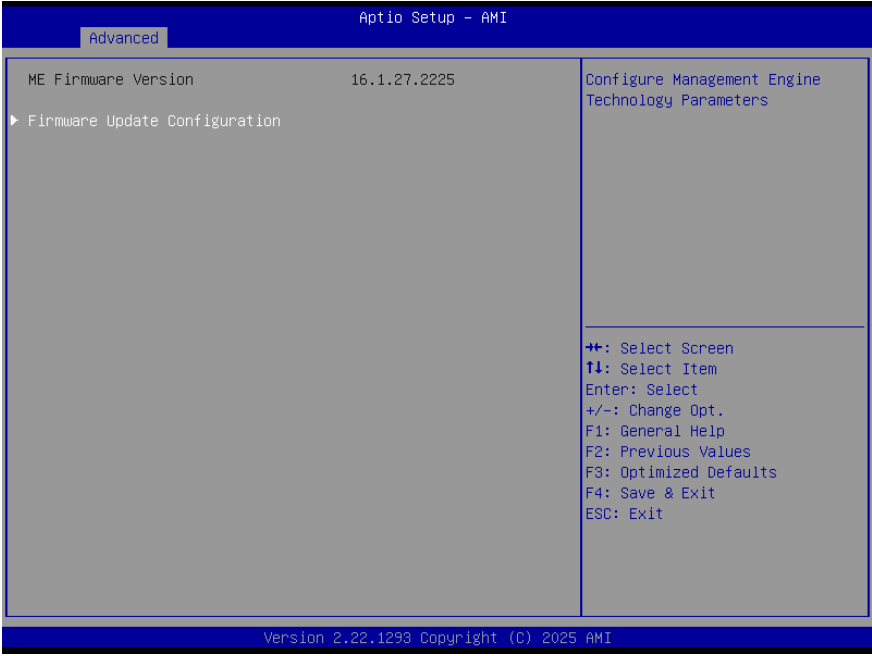
3.4.4.1 Smart Fan Mode Configuration



Options Summary		
FAN1 Output Mode	Output PWM mode (open drain)	Optimal Default, Failsafe Default
	Linear Fan Application	
	Output PWM mode (push pull)	
Outputs PWM signals in push-pull mode to control 4-wire fans.		
In a linear fan application circuit, this controls 3-wire fan speed via the fan's power terminal.		
Outputs PWM signals in open-drain mode to control Intel 4-wire fans.		
Fan 1 Smart Fan Control	Manual RPM Mode	
	Manual Duty Mode	
	Auto RPM Mode	
	Auto Duty-Cycle Mode	Optimal Default, Failsafe Default
Select Smart Fan Mode.		

Options Summary		
Temperature Source	System Temperature	Optimal Default, Failsafe Default
	System Temperature 2	
Select the monitored temperature source for this fan.		
Temperature 1	60	Optimal Default, Failsafe Default
Temperature 2	50	Optimal Default, Failsafe Default
Temperature 3	40	Optimal Default, Failsafe Default
Temperature 4	30	Optimal Default, Failsafe Default
Duty Cycle 1	85	Optimal Default, Failsafe Default
Duty Cycle 2	70	Optimal Default, Failsafe Default
Duty Cycle 3	60	Optimal Default, Failsafe Default
Duty Cycle 4	50	Optimal Default, Failsafe Default
Duty Cycle 5	40	Optimal Default, Failsafe Default
Enables automatic fan speed control. The fan speed adjusts based on temperature using a duty cycle from 1% to 100%.		

3.4.5 PCH-FW Configuration

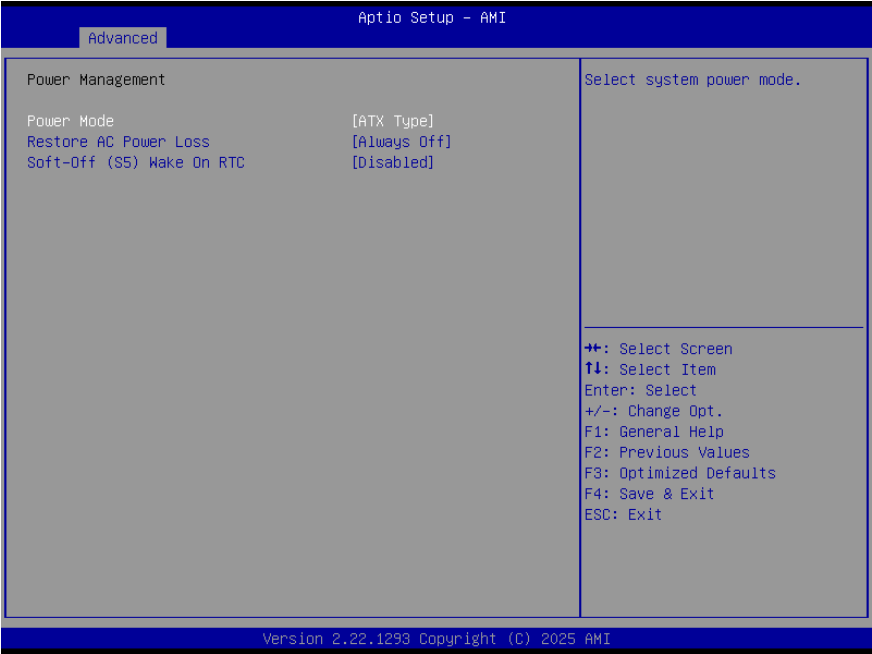


3.4.5.1 Firmware Update Configuration



Options Summary		
Me FW Image Re-Flash	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable/Disable ME FW Image Re-Flash function.		
FW Update	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable/Disable ME FW Update function.		

3.4.6 Power Management



Options Summary		
Power Mode	ATX Type	Optimal Default, Failsafe Default
	AT Type	
Select system power mode.		
Restore AC Power Loss	Last State	
	Always On	
	Always Off	Optimal Default, Failsafe Default
Restore AC Power Loss.		
RTC wake system from S5	Disable	Optimal Default, Failsafe Default
	By Date	
	By Weekday	
	Bypass	
By Date: System will wake on the day with hr::min::sec specified.		
By Weekday: System will wake on the enabled weekday with hr::min::sec specified.		
Bypass: BIOS will not control RTC wake function.		

3.4.7 AAEON BIOS Robot



Options Summary		
Sends watch dog before BIOS POST	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enabled – The system sets the Watchdog Timer (WDT) immediately after power-on, before the BIOS begins the POST process. The WDT is cleared automatically upon POST completion. If the WDT is not cleared before the timer reaches zero, the system will reset automatically.		
POST Timer (second)	30	Optimal Default, Failsafe Default
Specifies the timer duration for the Watchdog Timer (WDT) during POST. Warning: Do not set the timer to a value equal to or shorter than the normal POST time, as this may prevent the system from completing POST unless BIOS settings are cleared. A timer value greater than twice the normal POST duration is recommended.		
Sends watch dog before booting OS	Disabled	Optimal Default, Failsafe Default
	Enabled	

Options Summary		
Enabled – The system sets the Watchdog Timer (WDT) after POST completes, before the BIOS transfers control to the operating system.		
Warning: Before enabling this feature, ensure that an OS program is responsible for clearing the WDT. This function should be disabled if the OS will perform an update.		
OS Timer (minute)	3	Optimal Default, Failsafe Default
Specifies the timer duration for the Watchdog Timer (WDT) during OS loading.		
Delayed POST (PEI phase)	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enabled – The system delays the start of BIOS POST immediately after power-on. This allows POST to begin with stable power or after the system has physically warmed up.		
Note: This delay occurs before the Watchdog Timer is activated.		
Delayed time (second)	10	Optimal Default, Failsafe Default
Specifies the duration for which the system delays BIOS POST.		
Delayed POST (DXE phase)	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enabled – The system delays BIOS POST before its completion, allowing POST to start with stable power or after the system has physically warmed up.		
Note: This delay occurs after the Watchdog Timer is activated before BIOS POST.		
Delayed time (second)	10	Optimal Default, Failsafe Default
Specifies the duration for which the system delays BIOS POST		
Reset system once	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enabled – The system performs a one-time reset on each boot. This sends a soft or hard reset to onboard devices, helping ensure they start in a stable state.		
Soft or hard reset	Soft reset	Optimal Default, Failsafe Default
	Hard reset"	
Select the type of reset the system should perform on each boot.		

3.4.7.1 Device Detecting Configuration



Options Summary

Action	Reset System	Optimal Default, Failsafe Default
	Hold System	

Select the action the system should perform

Soft or hard reset	Soft	Optimal Default, Failsafe Default
	Hard	

Select the type of reset the system should perform on each boot.

Retry-Count	3	Optimal Default, Failsafe Default
-------------	---	-----------------------------------

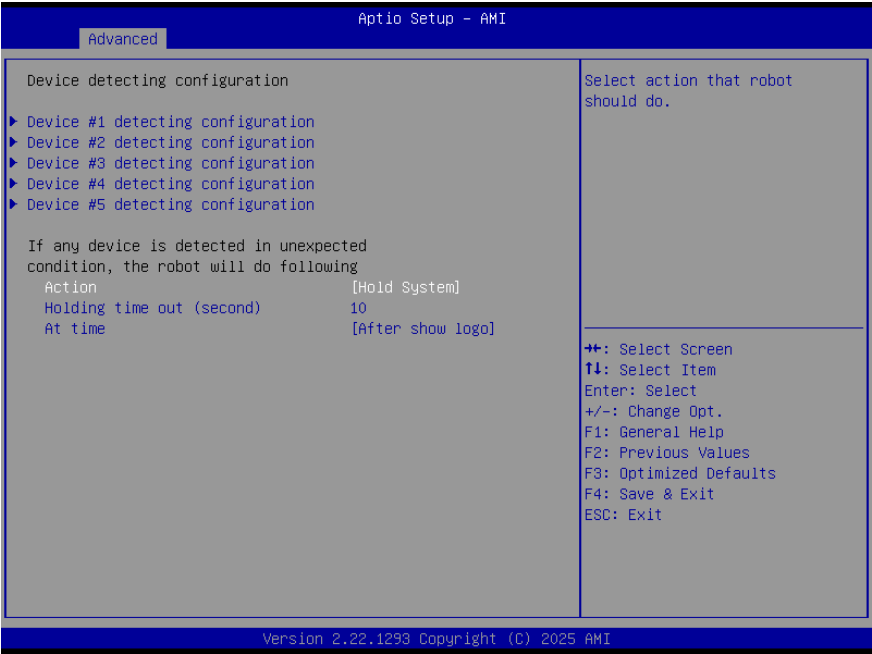
Specify the retry counter. The system will perform a reset up to this number of times before allowing POST to continue.

At time	After show logo	Optimal Default, Failsafe Default
	Before show logo	

Select Robot Action Time:

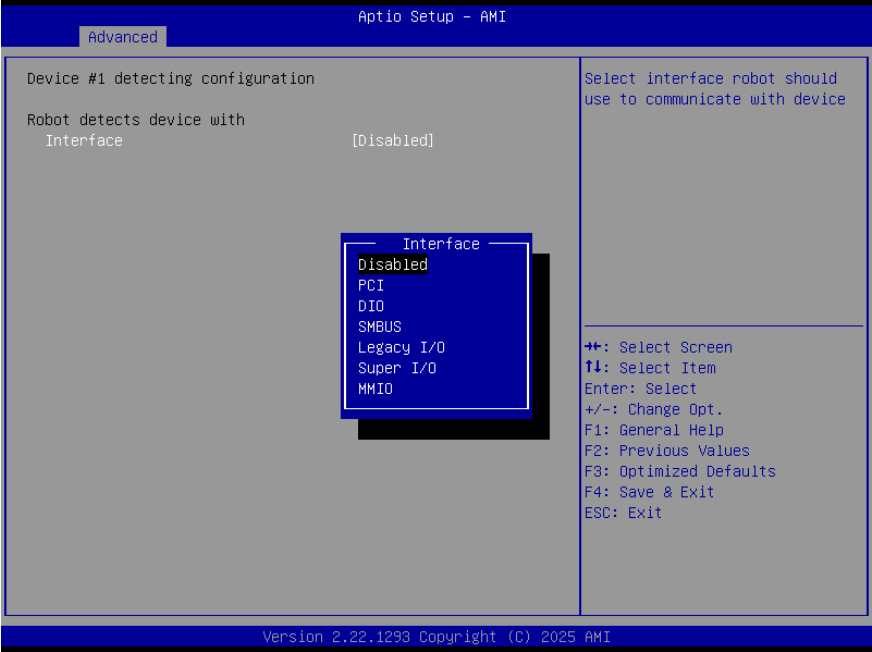
After Show Logo – The system performs the action after the logo is displayed, when most devices are ready.

Before Show Logo – The system performs the action earlier, before the logo is displayed; some devices may not yet be ready.



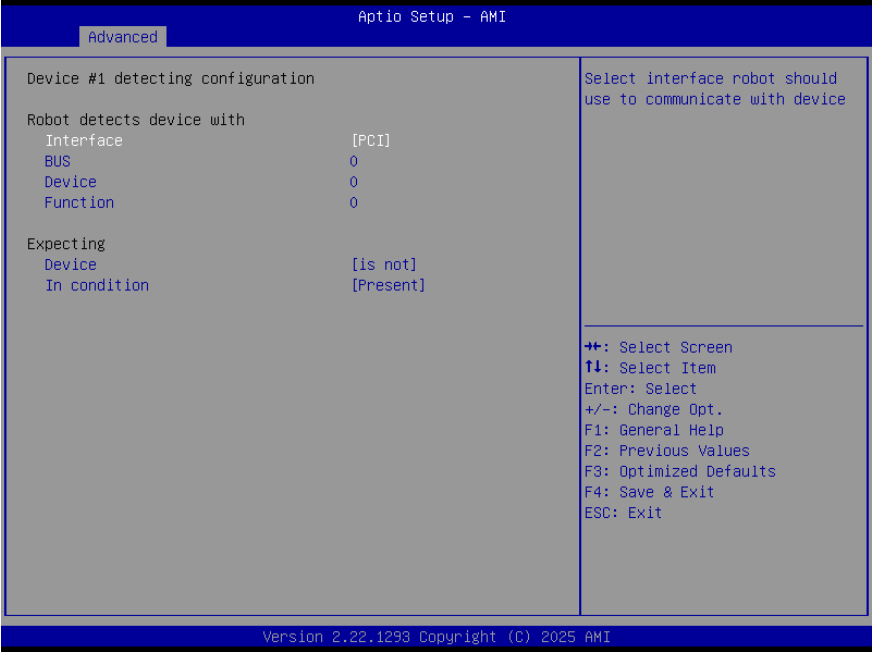
Options Summary		
Action	Reset System	
	Hold System	Optimal Default, Failsafe Default
Select the action the system should perform		
Holding time out (second)	10	Optimal Default, Failsafe Default
Specify the hold timeout value. The system will delay for no longer than this period before allowing POST to continue.		
At time	After show logo	Optimal Default, Failsafe Default
	Before show logo	
Select Robot Action Time:		
After Show Logo – The system performs the action after the logo is displayed, when most devices are initialized and ready.		
Before Show Logo – The system performs the action earlier, before the logo is displayed; some devices may not yet be ready.		

3.4.7.2 Device #* Detecting Configuration



Options Summary		
Interface	Disabled	Optimal Default, Failsafe Default
	PCI	
	DIO	
	SMBUS	
	Legacy I/O	
	Super I/O	
	MMIO	
Select interface robot should use to communicate with device.		

3.4.7.2.1 PCI



Options Summary		
When the interface item is set to PCI, the following options are available:		
BUS	0	Optimal Default, Failsafe Default
Enter the PCI bus number in hexadecimal. Range: 0–FF.		
Device	0	Optimal Default, Failsafe Default
Enter the PCI device number in hexadecimal. Range: 0–FF.		
Function	0	Optimal Default, Failsafe Default
Enter the PCI function number in hexadecimal. Range: 0–FF.		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action when the condition is met or not.		
In condition	Present	Optimal Default, Failsafe Default
	Specified register data	

Options Summary

When the interface item is set to PCI, the following options are available:

Select the condition the system should check for the device:

Present – The device is detected.

According to Register – The system reads the device register based on the configured settings.

Note: A device is considered present when the data read from it is not 0xFF.

3.4.7.2.2 DIO

Aptio Setup - AMI

Advanced

Device #1 detecting configuration

Robot detects device with

Interface [DIO]

DIO pin number [GPIO]

Expecting

Device [is not]

In High/Low level [Low]

Select interface robot should use to communicate with device

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

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Options Summary

When the interface item is set to DIO, the following options are available:

DIO pin number	GPIO 0	Optimal Default, Failsafe Default
	GPIO *	

Fill DIO pin number, 0 - DIO, 1 - DIO1, and so on.

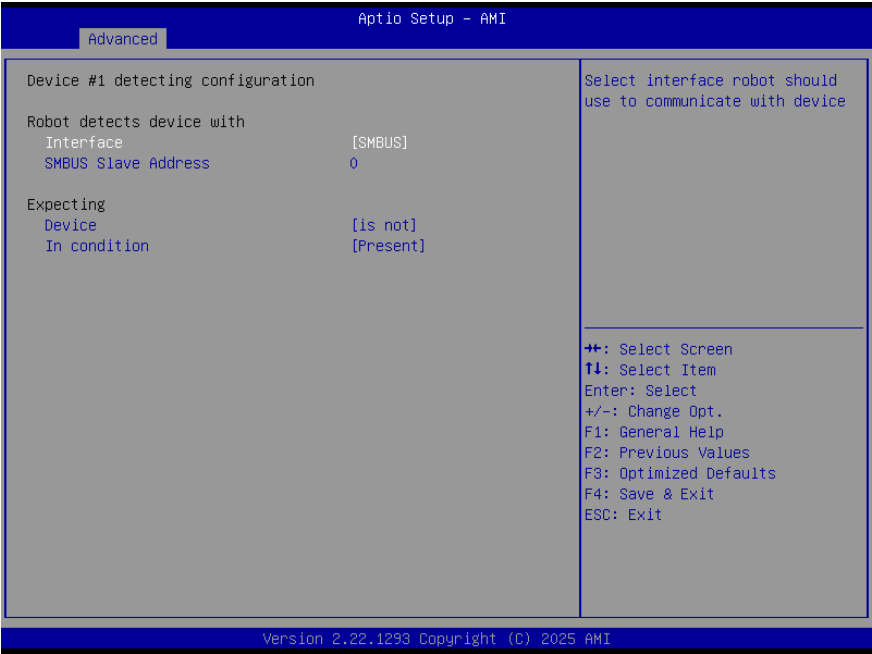
For COM express product:

0-3 - GPIO-3

4-7 - GPO0-3

Options Summary		
When the interface item is set to DIO, the following options are available:		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action when the specified condition is met or not.		
In High/Low level	Low	Optimal Default, Failsafe Default
	High	
Select the high or low logic level of the DIO pin at which the system should perform the action.		

3.4.7.2.3 SMBUS

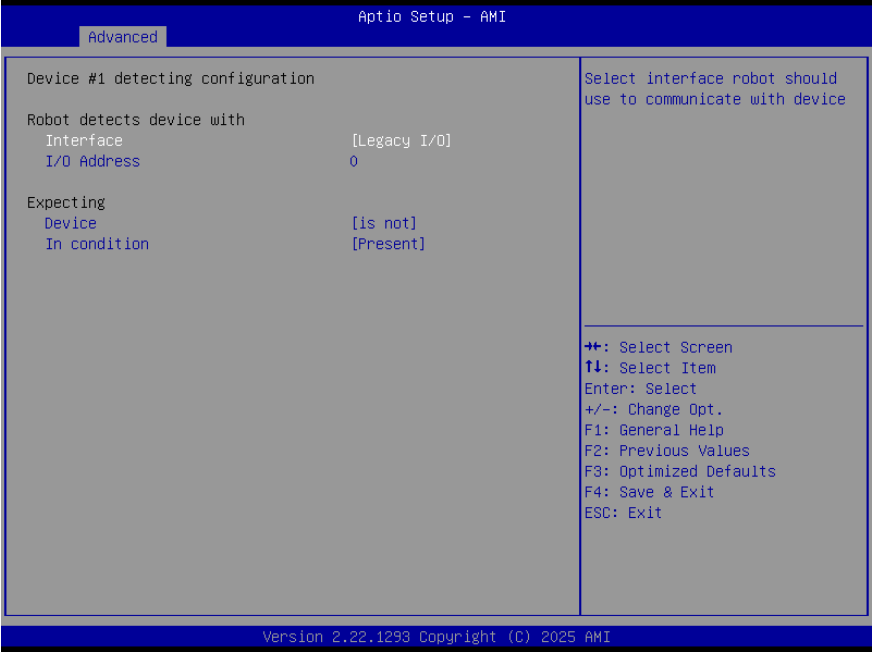


Options Summary

When the interface item is set to SMBUS, the following options are available:

SMBUS Slave Address	0	Optimal Default, Failsafe Default
Enter the slave address of the SMBus device in hexadecimal. Range: 0–FF.		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action when the specified condition is met or not.		
In condition	Present	Optimal Default, Failsafe Default
	Specified register data	
Select the condition the system should check for the device: Present – The device is detected. According to Register – The system reads the device register based on the configured settings. Note: A device is considered present when the data read from it is not 0xFF.		

3.4.7.2.4 Legacy I/O

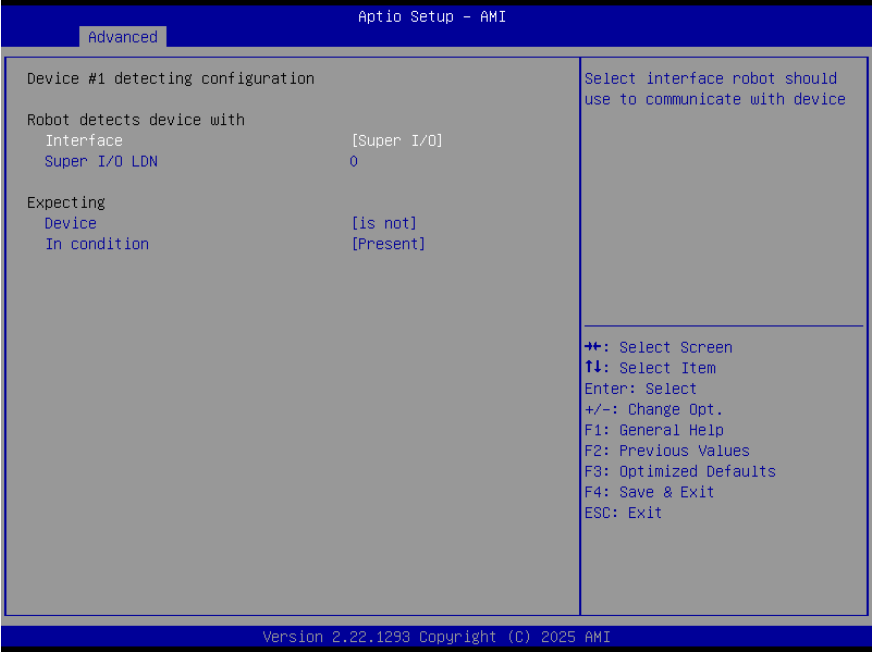


Options Summary

When the interface item is set to Legacy I/O, the following options are available:

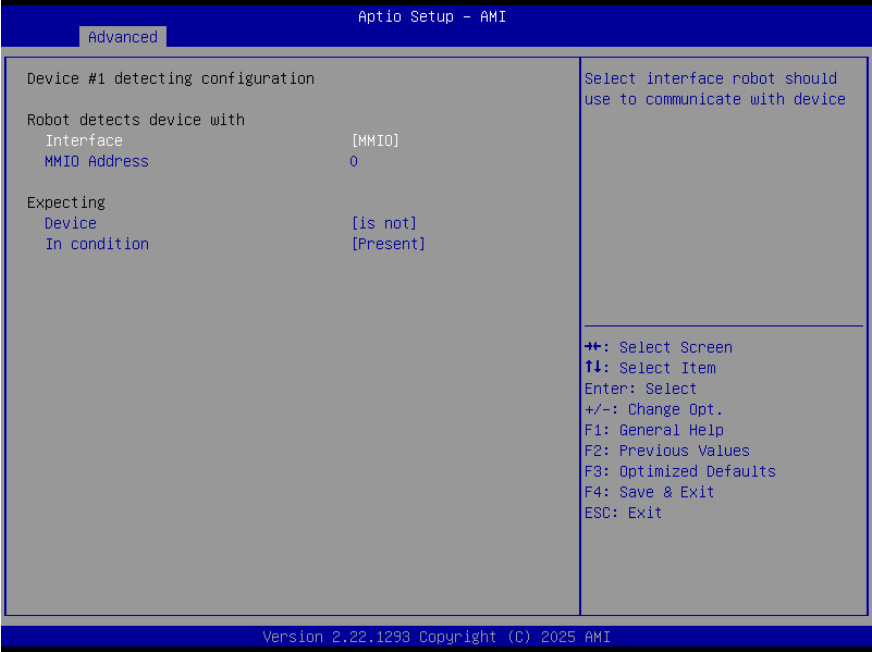
I/O Address	0	Optimal Default, Failsafe Default
Enter the I/O address that the device responds to. Range: 0x0000–0xFFFF.		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action when the specified condition is met or not.		
In condition	Present	Optimal Default, Failsafe Default
	Specified register data	
Select the condition the system should check for the device: Present – The device is detected. According to Register – The system reads the device register based on the configured settings. Note: A device is considered present when the data read from it is not 0xFF.		

3.4.7.2.5 Super I/O



Options Summary		
When the interface item is set to Super I/O, the following options are available:		
Super I/O LDN	0	Optimal Default, Failsafe Default
Enter the LDN (Logical Device Number) of the Super I/O device. Range: 0x00–0xFF.		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action if the condition is met or not.		
In condition	Present	Optimal Default, Failsafe Default
	Specified register data	
Select the condition the system should check for the device:		
Present – The device is detected.		
According to Register – The system reads the device register based on the configured settings.		
Note: A device is considered present when the data read from it is not 0xFF.		

3.4.7.2.6 MMIO

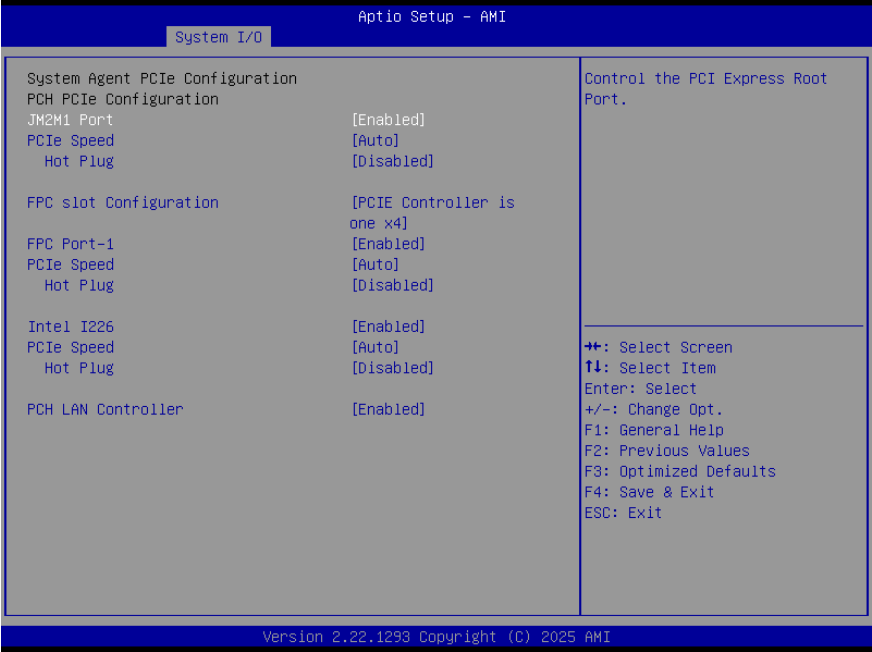


Options Summary		
When the interface item is set to MMIO, the following options are available:		
MMIO Address	0	Optimal Default, Failsafe Default
Enter the Memory-Mapped I/O (MMIO) address the device responds to. Range: 0x00000000-0xFFFFFFFF.		
Device	is	
	Is not	Optimal Default, Failsafe Default
Select whether the system should perform the action when the condition is met or not.		
In condition	Present	Optimal Default, Failsafe Default
	Specified register data	
Select the condition the system should check for the device: Present – The device is detected. Specified Register Data – The system reads the device register according to the configuration. Note: A device is considered present when the data read from it is not 0xFF.		

3.5 Setup Submenu: System I/O



3.5.1 PCI Express Configuration



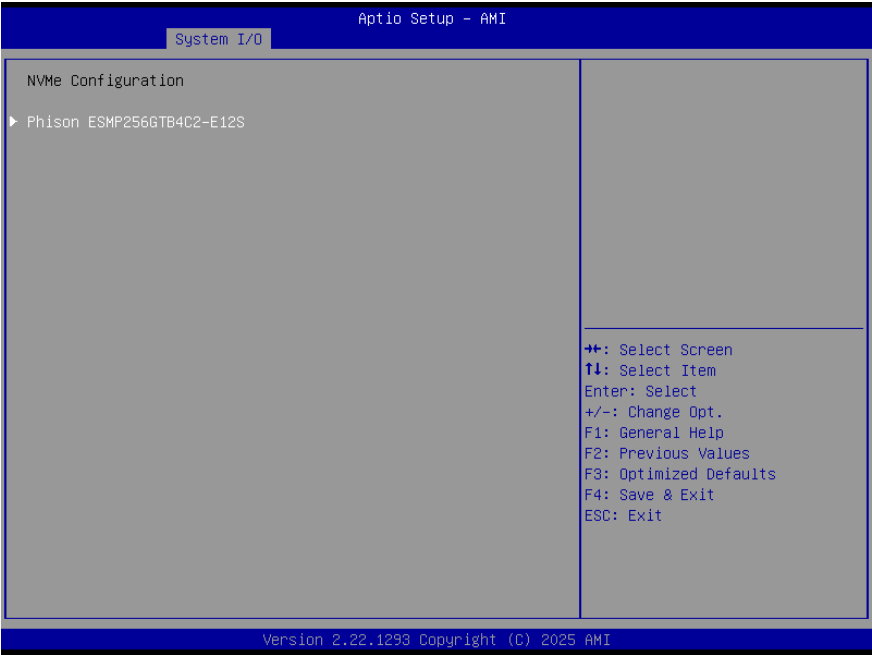
Options Summary		
JM2M1 Port	Disabled	
	Enabled	Optimal Default, Failsafe Default
Control the PCI Express Root Port.		
PCIe Speed	Auto	Optimal Default, Failsafe Default
	Gen1	
	Gen2	
	Gen3	
Configure PCIe Speed.		
Hot Plug	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable/Disable PCI Express Hot Plug.		
FPC Slot Configuration	PCIe Controller are four x1	
	PCIe Controller are one x2 and two x1	

Options Summary		
FPC Slot Configuration (Cont.)	PCIe Controller are two x2	
	PCIe Controller are one x4	Optimal Default, Failsafe Default
PCIe Controller Setting.		
FPC Port-1	Disabled	
	Enabled	Optimal Default, Failsafe Default
Control the PCI Express Root Port.		
PCIe Speed	Auto	Optimal Default, Failsafe Default
	Gen1	
	Gen2	
	Gen3	
Configure PCIe Speed.		
Hot Plug	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable/Disable PCI Express Hot Plug.		
Intel I226	Disabled	
	Enabled	Optimal Default, Failsafe Default
Control the PCI Express Root Port.		
PCIe Speed	Auto	Optimal Default, Failsafe Default
	Gen1	
	Gen2	
	Gen3	
Configure PCIe Speed.		
Hot Plug	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable/Disable PCI Express Hot Plug.		
PCH LAN Controller	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable/Disable onboard NIC.		

3.5.2 Storage Configuration



3.5.2.1 NVMe Configuration



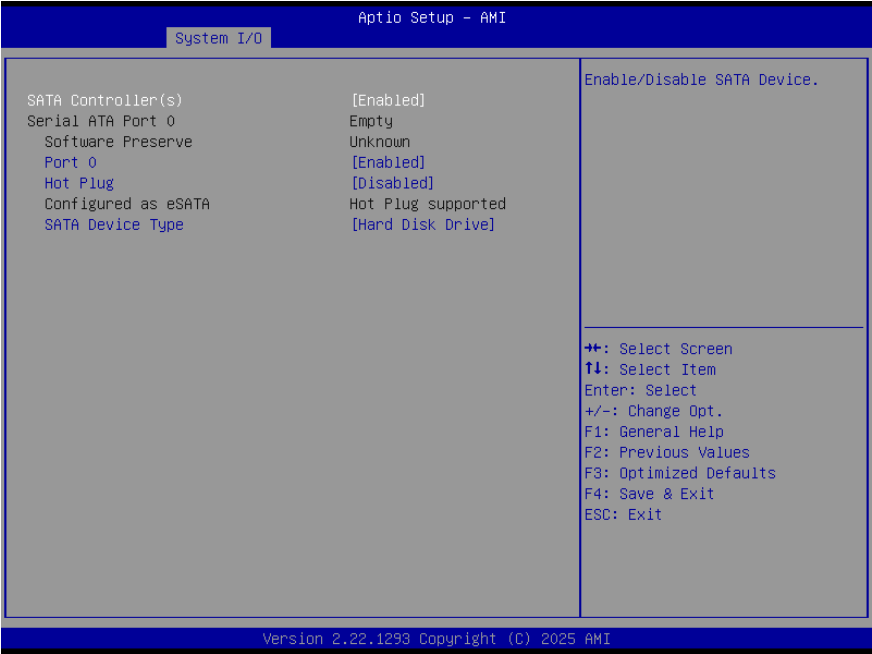
3.5.2.1.1 Phison ESMP256GTB4C2-E12S

Aptio Setup - AMI		
System I/O		
Seg:Bus:Dev:Func	00:01:00:00	Select either Short or Extended Self Test. Short option will take couple of minutes and extended option will take several minutes to complete.
Model Number	Phison	
	ESMP256GTB4C2-E12S	
Total Size	256.0 GB	
Vendor ID	1987	
Device ID	5012	
Namespace: 1	Size: 256.0 GB	
Device Self Test:		
Self Test Option	[Short]	
Self Test Action	[Controller Only Test]	
Run Device Self Test		
Short Device Selftest Result	[Pass]	++: Select Screen T1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Extended Device Selftest Result	[Pass]	

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Options Summary		
Self Test Option	Short	Optimal Default, Failsafe Default
	Extended	
Select the self-test type for the device: Short – Completes in a few minutes. Extended – Takes several minutes to complete.		
Self Test Action	Controller only test	Optimal Default, Failsafe Default
	Controller and Namespace test	
Select the scope of the test: Controller Only – Tests the controller alone. Controller and Namespace – Tests both the controller and its namespaces; this option will take significantly longer to complete.		

3.5.2.2 SATA Configuration



Options Summary		
SATA Controller(s)	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable/Disable SATA Device.		
Port 0	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable SATA Port.		
Hot Plug	Disabled	Optimal Default, Failsafe Default
	Enabled	
Designates this port as Hot Pluggable.		
SATA Device Type	Hard Disk Drive	Optimal Default, Failsafe Default
	Solid State Drive	
Identify whether the SATA port is connected to Solid State Drive or Hard Disk Drive.		

3.5.3 HD Audio Configuration



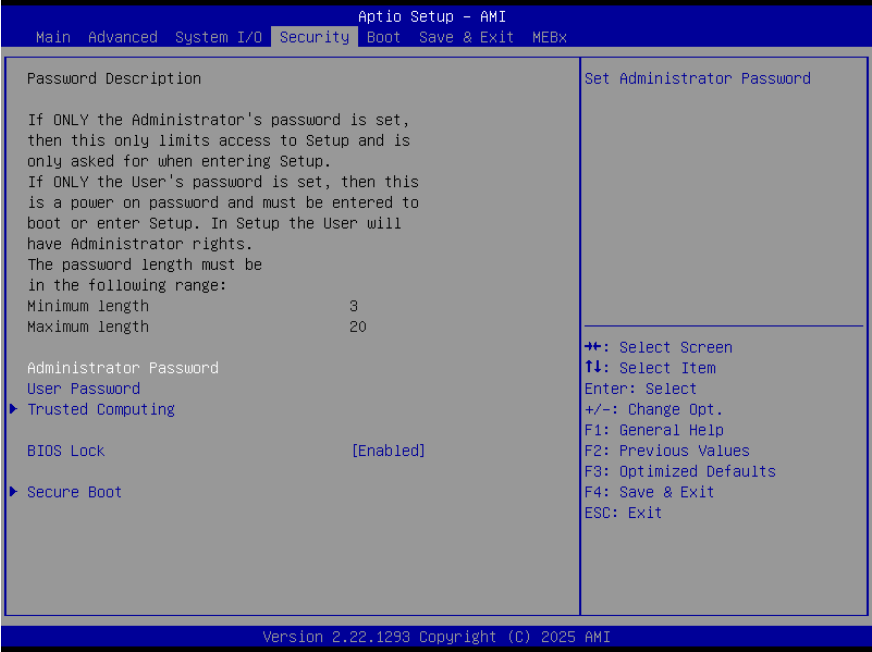
Options Summary		
HD Audio	Disabled	
	Enabled	Optimal Default, Failsafe Default
Control Detection of the HD-Audio device. Disabled = HDA will be unconditionally disabled. Enabled = HDA will be unconditionally enabled.		

3.5.4 Digital IO Port Configuration



Options Summary		
GPI 0 - 3	Output	Optimal Default, Failsafe Default
	Input	
Set DIO as Input or Output.		
Output Level	High	Optimal Default, Failsafe Default
	Low	
Set output level when DIO pin is output.		
GPO 0 - 3	Output	
	Input	Optimal Default, Failsafe Default
Set DIO as Input or Output.		

3.6 Setup Submenu: Security



Change Administrator/User Password

You can set an Administrator password. If you set an Administrator password, you can then set a User password. User passwords do not have access to many of the features in the Setup utility.

Select the password you want to set and press <Enter>. A dialog box will appear which lets you set the password. Passwords must be between 3 and 20 letters or numbers. Press <Enter> and re-enter the password into the next dialog box that appears. Press <Enter> after you have retyped it correctly. The password is required at boot time, or when the user enters the Setup utility.

Remove Password

Highlight this item and type in the current password. At the next dialog box press <Enter> to disable password protection.

Options Summary		
BIOS Lock	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enables or disables the PCH BIOS Lock Enable feature. This must be enabled to ensure SMM protection of the flash.		

3.6.1 Trusted Computing



Options Summary		
Security Device Support	Disable	
	Enable	Optimal Default, Failsafe Default
Enables or disables BIOS support for the security device. When disabled, the operating system will not detect the security device, and the TCG EFI protocol and INT1A interface will be unavailable.		
SHA256 PCR Bank	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable SHA256 PCR Bank.		
SHA384 PCR Bank	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable or Disable SHA384 PCR Bank.		
SM3_256 PCR Bank	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable or Disable SM3_256 PCR Bank.		
Pending operation	None	Optimal Default, Failsafe Default
	TPM Clear	

Options Summary		
Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.		
Platform Hierarchy	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Platform Hierarchy.		
Storage Hierarchy	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Storage Hierarchy.		
Endorsement Hierarchy	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Endorsement Hierarchy.		
Physical Presence Spec Version	1.2	
	1.3	Optimal Default, Failsafe Default
Select whether the operating system should use PPI Specification Version 1.2 or 1.3. Note: Some HCK tests may not support Version 1.3.		
Device Select	TPM 1.2	
	TPM 2.0	
	Auto	Optimal Default, Failsafe Default
TPM 1.2 – Restricts support to TPM 1.2 devices. TPM 2.0 – Restricts support to TPM 2.0 devices. Auto – Supports both TPM 1.2 and TPM 2.0 devices, defaulting to TPM 2.0 if available. Note: TPM 1.2 devices will still be enumerated.		

3.6.2 Secure Boot



Options Summary

Secure Boot	Disabled	Optimal Default, Failsafe Default
	Enabled	

The Secure Boot feature is active when Secure Boot is enabled, the Platform Key (PK) is enrolled, and the system is in User mode. Changing the mode requires a platform reset.

Secure Boot Mode	Custom	Optimal Default, Failsafe Default
	Standard	

Secure Boot mode options: Standard or Custom.

In Custom mode, a physically present user can configure Secure Boot Policy variables without full authentication.

Restore Factory Keys

Forces the system into User Mode and installs the factory default Secure Boot key databases.

3.6.2.1 Key Management



Options Summary

Factory Key Provision	Disabled	Optimal Default, Failsafe Default
	Enabled	

Installs the factory default Secure Boot keys after a platform reset, while the system is in Setup mode.

Restore Factory Keys

Forces the system into User Mode and installs the factory default Secure Boot key databases.

Reset to Setup Mode

Delete all Secure Boot key databases from NVRAM.

Export Secure Boot variables

Save NVRAM content of Secure Boot variable to a file.

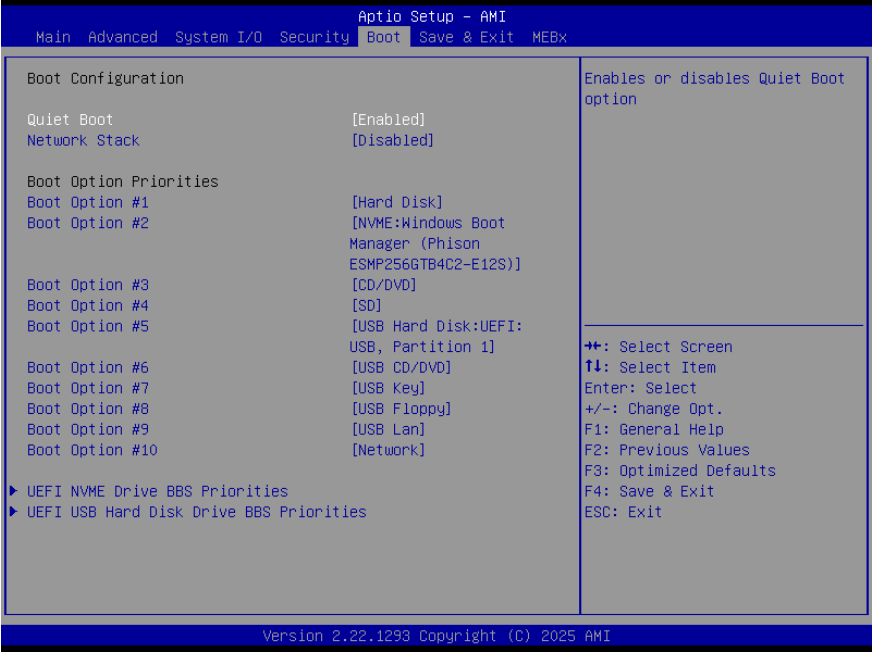
Enroll Efi Image

Allows the image to run in Secure Boot mode by enrolling the SHA-256 hash certificate of a PE image into the Authorized Signature Database (db).

Platform Key (PK)	Details
-------------------	---------

Options Summary	
Platform Key (PK) (Cont.)	Export
	Update
	Delete
Key Exchange Keys (KEK)	Details
	Export
	Update
	Append
	Delete
Authorized Signatures (db)	Details
	Export
	Update
	Append
	Delete
Forbidden Signatures (dbx)	Details
	Export
	Update
	Append
	Delete
Authorized TimeStamps (dbt)	Update
	Append
OsRecovery Signatures (dbr)	Update
	Append
Enroll Factory Defaults or load certificates from a file: - Public Key Certificate: - EFI_SIGNATURE_LIST - EFI_CERT_X509 (DER) - EFI_CERT_RSA2048 (bin) - EFI_CERT_SHAXXX - Authenticated UEFI Variable - EFI PE/COFF Image (SHA256) Key Source: Factory, Modified, Mixed.	

3.7 Setup Submenu: Boot



Options Summary		
Quiet Boot	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enables or disables Quiet Boot option.		
Network Stack	Disabled	Optimal Default, Failsafe Default
	Enabled	
Enable/Disable UEFI Network Stack.		

3.8 Setup Submenu: Save & Exit



3.9 MEBx



Chapter 4

Driver Installation

4.1 Driver Download/Installation

Drivers for the de next-RAP8-EZBOX can be downloaded from the product page on the AAEON website by following this link:

https://www.aaeon.com/en/product/detail/de_next_de_next-rap8-ezbox/download

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

Install Chipset Drivers

1. Open the **Chipset** folder
2. Run the **SetupChipset.exe** in the folder
3. Follow the instructions
4. Drivers will be installed automatically

Install Graphics Drivers

1. Open the **Graphics Driver** folder
2. Run the **Installer.exe** file in the folder
3. Follow the instructions
4. Drivers will be installed automatically

Install LAN Driver

1. Open the **LAN Driver** folder
2. Run the **Autorun.exe** file in the folder
3. Follow the instructions
4. Drivers will be installed automatically

Install Audio Drivers

Note: Ensure Intel Smart Sound Driver (**Intel_SST_ADL_RPL_v10.29.00.10981**) is installed before the Realtek Audio driver (**Realtek Audio 6.0.9034.2**)

Install Intel Smart Sound Driver

1. Open the folder where you unzipped the **Peripheral Drivers** and unzip the **Intel_SST_ADL_RPL_v10.29.00.10981** folder.
2. Follow the setup information within the file to manually install driver.

Install Realtek Audio Driver

1. Open the Intel Smart Sound Driver (**Realtek Audio 6.0.9034.2**) folder
2. Run the **Setup.exe** file in the folder
3. Follow the instructions
4. Driver will be installed automatically

Install ME & TXE Driver Drivers

1. Open the **ME & TXE** folder
2. Run the **SetupME.exe** file in the folder
3. Follow the instructions
4. Drivers will be installed automatically

Peripheral Drivers

Install Intel® GNA Driver

1. Extract the files (if zipped) to a folder (e.g., C:\Drivers\GNA).
2. Open Device Manager:
Press Windows + X → Select Device Manager
3. Find the target device:
Expand categories like System devices, Audio inputs and outputs, or Software components.

Look for something named like Intel GNA, Gaussian & Neural Accelerator, or any unknown device (yellow exclamation mark)

4. Right-click the device → Click Update driver
5. Choose: "Browse my computer for drivers"
6. Then: "Let me pick from a list of available drivers on my computer"
7. Click "Have Disk...", then Browse... to the folder where your gna.inf is located (e.g., C:\Drivers\GNA), and select the gna.inf file.
8. Proceed with the installation prompts.
9. Restart your computer after installation completes.

Serial Port Patch Driver

1. Open the folder where you unzipped the **Peripheral Drivers**.
2. Run the **FintekSerial.exe** file in the folder.
3. Follow the instructions.
4. Drivers will be installed automatically.

Serial IO Driver

1. Open the folder where you unzipped the **Peripheral Drivers**.
2. Run the **SetupSerialIO.exe** file in the folder.
3. Follow the instructions.
4. Drivers will be installed automatically.

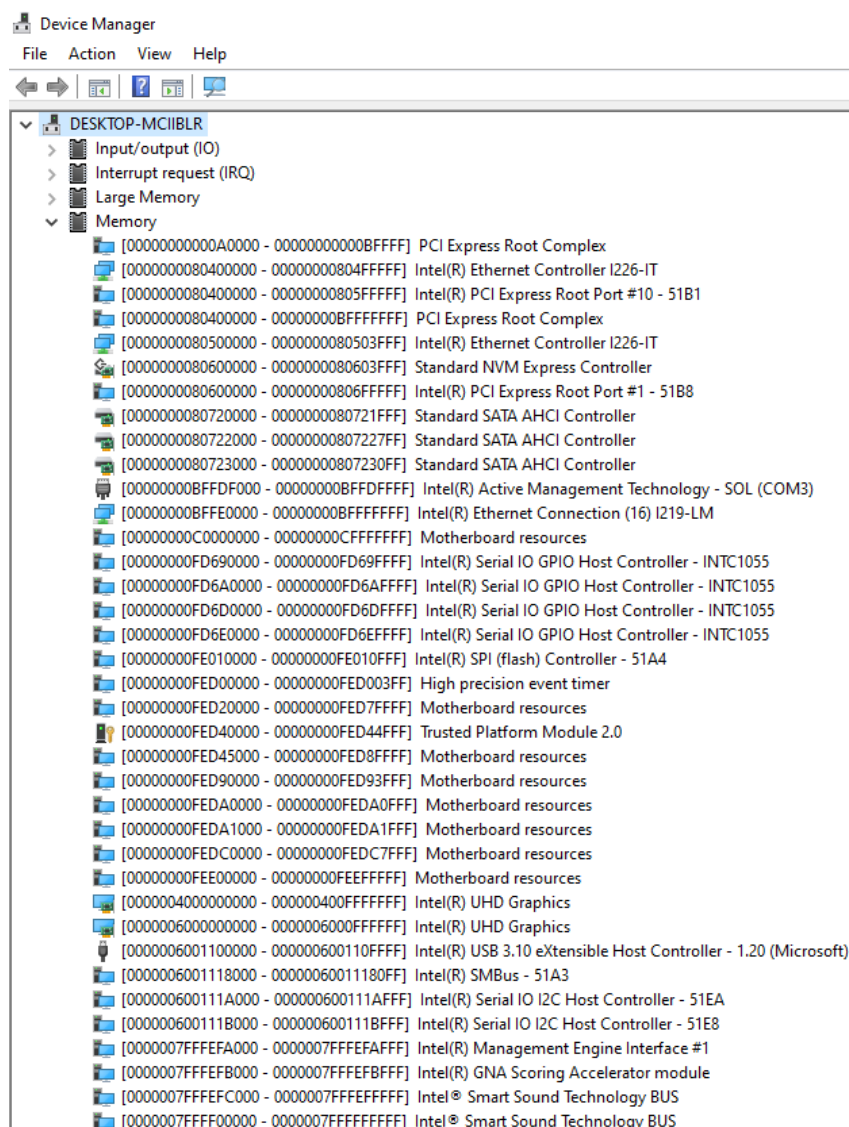
Appendix A

I/O Information

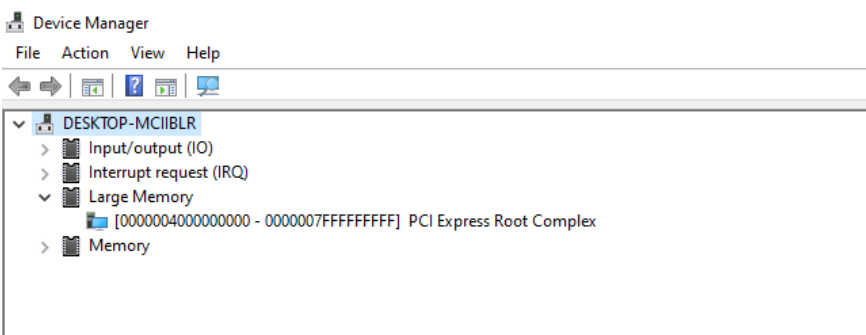
A.1 I/O Address Map

Device Manager		
File Action View Help		
DESKTOP-MCIIBLR		
Input/output (I/O)		
	[0000000000000000 - 000000000000CF7]	PCI Express Root Complex
	[0000000000000020 - 0000000000000021]	Programmable interrupt controller
	[0000000000000024 - 0000000000000025]	Programmable interrupt controller
	[0000000000000028 - 0000000000000029]	Programmable interrupt controller
	[000000000000002C - 000000000000002D]	Programmable interrupt controller
	[000000000000002E - 000000000000002F]	Motherboard resources
	[0000000000000030 - 0000000000000031]	Programmable interrupt controller
	[0000000000000034 - 0000000000000035]	Programmable interrupt controller
	[0000000000000038 - 0000000000000039]	Programmable interrupt controller
	[000000000000003C - 000000000000003D]	Programmable interrupt controller
	[0000000000000040 - 0000000000000043]	System timer
	[000000000000004E - 000000000000004F]	Motherboard resources
	[0000000000000050 - 0000000000000053]	System timer
	[0000000000000061 - 0000000000000061]	Motherboard resources
	[0000000000000063 - 0000000000000063]	Motherboard resources
	[0000000000000065 - 0000000000000065]	Motherboard resources
	[0000000000000067 - 0000000000000067]	Motherboard resources
	[0000000000000070 - 0000000000000070]	Motherboard resources
	[0000000000000080 - 0000000000000080]	Motherboard resources
	[0000000000000092 - 0000000000000092]	Motherboard resources
	[00000000000000A0 - 00000000000000A1]	Programmable interrupt controller
	[00000000000000A4 - 00000000000000A5]	Programmable interrupt controller
	[00000000000000A8 - 00000000000000A9]	Programmable interrupt controller
	[00000000000000AC - 00000000000000AD]	Programmable interrupt controller
	[00000000000000B0 - 00000000000000B1]	Programmable interrupt controller
	[00000000000000B2 - 00000000000000B3]	Motherboard resources
	[00000000000000B4 - 00000000000000B5]	Programmable interrupt controller
	[00000000000000B8 - 00000000000000B9]	Programmable interrupt controller
	[00000000000000BC - 00000000000000BD]	Programmable interrupt controller
	[00000000000000F8 - 00000000000000FF]	Fintek Communications Port (COM2)
	[00000000000000F8 - 00000000000000FF]	Fintek Communications Port (COM1)
	[00000000000000D0 - 00000000000000D1]	Programmable interrupt controller
	[0000000000000068 - 000000000000006F]	Motherboard resources
	[00000000000000A0 - 00000000000000AF]	Motherboard resources
	[00000000000000A10 - 00000000000000A1F]	Motherboard resources
	[00000000000000A20 - 00000000000000A2F]	Motherboard resources
	[00000000000000D00 - 00000000000000FFF]	PCI Express Root Complex
	[0000000000000164E - 0000000000000164F]	Motherboard resources
	[00000000000001854 - 00000000000001857]	Motherboard resources
	[00000000000002000 - 000000000000020FE]	Motherboard resources
	[00000000000003000 - 0000000000000303F]	Intel(R) UHD Graphics
	[00000000000003060 - 0000000000000307F]	Standard SATA AHCI Controller
	[00000000000003080 - 00000000000003083]	Standard SATA AHCI Controller
	[00000000000003090 - 00000000000003097]	Standard SATA AHCI Controller
	[0000000000000EFA0 - 0000000000000EFBF]	Intel(R) SMBus - 51A3
	[0000000000000FFF8 - 0000000000000FFF]	Intel(R) Active Management Technology - SOL (COM3)

A.2 Memory Address Map



A.3 Large Memory Address Map



A.4 IRQ Mapping Chart

Device Manager

File Action View Help

DESKTOP-MCIIBLR

- Input/output (IO)
- Interrupt request (IRQ)
 - (ISA) 0x00000000 (00) System timer
 - (ISA) 0x00000003 (03) Fintek Communications Port (COM2)
 - (ISA) 0x00000004 (04) Fintek Communications Port (COM1)
 - (ISA) 0x0000000E (14) Intel(R) Serial IO GPIO Host Controller - INTX1055
 - (ISA) 0x00000037 (55) Microsoft ACPI-Compliant System
 - (ISA) 0x00000038 (56) Microsoft ACPI-Compliant System
 - (ISA) 0x00000039 (57) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003A (58) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003B (59) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003C (60) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003D (61) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003E (62) Microsoft ACPI-Compliant System
 - (ISA) 0x0000003F (63) Microsoft ACPI-Compliant System
 - (ISA) 0x00000040 (64) Microsoft ACPI-Compliant System
 - (ISA) 0x00000041 (65) Microsoft ACPI-Compliant System
 - (ISA) 0x00000042 (66) Microsoft ACPI-Compliant System
 - (ISA) 0x00000043 (67) Microsoft ACPI-Compliant System
 - (ISA) 0x00000044 (68) Microsoft ACPI-Compliant System
 - (ISA) 0x00000045 (69) Microsoft ACPI-Compliant System
 - (ISA) 0x00000046 (70) Microsoft ACPI-Compliant System
 - (ISA) 0x00000047 (71) Microsoft ACPI-Compliant System
 - (ISA) 0x00000048 (72) Microsoft ACPI-Compliant System
 - (ISA) 0x00000049 (73) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004A (74) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004B (75) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004C (76) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004D (77) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004E (78) Microsoft ACPI-Compliant System
 - (ISA) 0x0000004F (79) Microsoft ACPI-Compliant System
 - (ISA) 0x00000050 (80) Microsoft ACPI-Compliant System
 - (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
 - (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

Device Manager		
File Action View Help		
	(ISA) 0x00000063 (99)	Microsoft ACPI-Compliant System
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	(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
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	(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
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	(ISA) 0x00000078 (120)	Microsoft ACPI-Compliant System
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	(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
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	(ISA) 0x00000084 (132)	Microsoft ACPI-Compliant System
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	(ISA) 0x0000008A (138)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008B (139)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008C (140)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008D (141)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008E (142)	Microsoft ACPI-Compliant System
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	(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

Device Manager		
File Action View Help		
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	(ISA) 0x00000097 (151)	Microsoft ACPI-Compliant System
	(ISA) 0x00000098 (152)	Microsoft ACPI-Compliant System
	(ISA) 0x00000099 (153)	Microsoft ACPI-Compliant System
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	(ISA) 0x0000009B (155)	Microsoft ACPI-Compliant System
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	(ISA) 0x0000009F (159)	Microsoft ACPI-Compliant System
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	(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
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	(ISA) 0x000000A6 (166)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A7 (167)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000A9 (169)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000AB (171)	Microsoft ACPI-Compliant System
	(ISA) 0x000000AC (172)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000B2 (178)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000BA (186)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000BC (188)	Microsoft ACPI-Compliant System
	(ISA) 0x000000BD (189)	Microsoft ACPI-Compliant System
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	(ISA) 0x000000BF (191)	Microsoft ACPI-Compliant System
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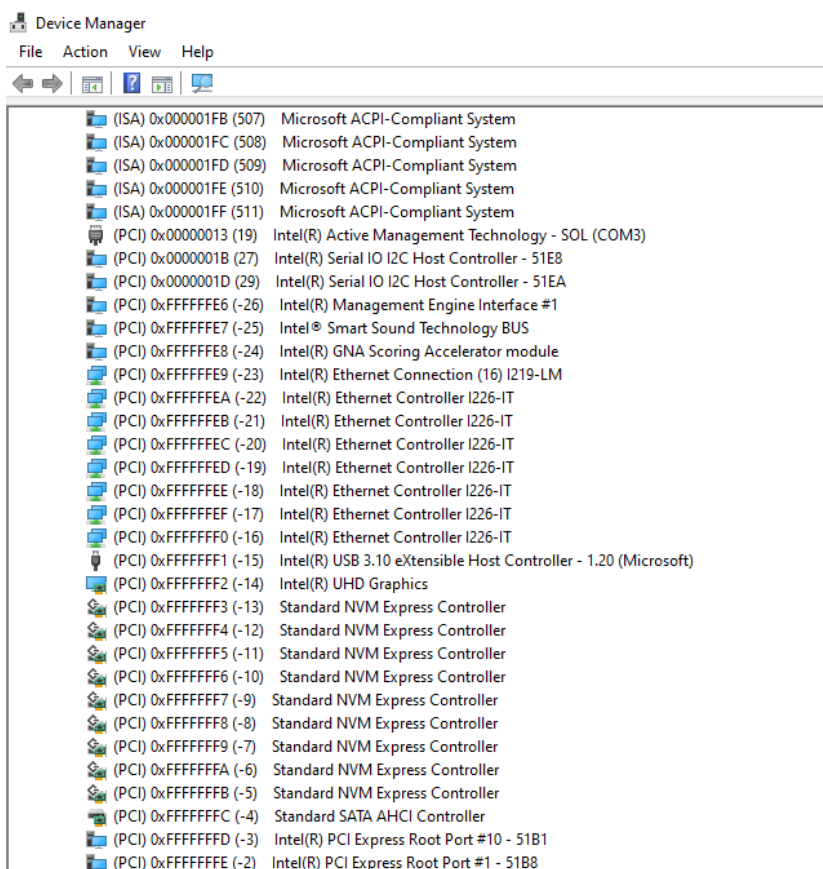
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	(ISA) 0x0000012F (303)	Microsoft ACPI-Compliant System

Device Manager		
File Action View Help		
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	(ISA) 0x0000013C (316)	Microsoft ACPI-Compliant System
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	(ISA) 0x0000013E (318)	Microsoft ACPI-Compliant System
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	(ISA) 0x00000157 (343)	Microsoft ACPI-Compliant System
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	(ISA) 0x0000015C (348)	Microsoft ACPI-Compliant System
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	(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

Device Manager		
File Action View Help		
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	(ISA) 0x00000165 (357)	Microsoft ACPI-Compliant System
	(ISA) 0x00000166 (358)	Microsoft ACPI-Compliant System
	(ISA) 0x00000167 (359)	Microsoft ACPI-Compliant System
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	(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
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	(ISA) 0x0000017D (381)	Microsoft ACPI-Compliant System
	(ISA) 0x0000017E (382)	Microsoft ACPI-Compliant System
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	(ISA) 0x00000180 (384)	Microsoft ACPI-Compliant System
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	(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

Device Manager		
File Action View Help		
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	(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
	(ISA) 0x000001C8 (456)	Microsoft ACPI-Compliant System

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	(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

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(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	
(ISA) 0x000001FF (511)	Microsoft ACPI-Compliant System	
(PCI) 0x00000013 (19)	Intel(R) Active Management Technology - SOL (COM3)	
(PCI) 0x0000001B (27)	Intel(R) Serial IO I2C Host Controller - 51E8	
(PCI) 0x0000001D (29)	Intel(R) Serial IO I2C Host Controller - 51EA	
(PCI) 0xFFFFFEE6 (-26)	Intel(R) Management Engine Interface #1	
(PCI) 0xFFFFFEE7 (-25)	Intel® Smart Sound Technology BUS	
(PCI) 0xFFFFFEE8 (-24)	Intel(R) GNA Scoring Accelerator module	
(PCI) 0xFFFFFEE9 (-23)	Intel(R) Ethernet Connection (16) I219-LM	
(PCI) 0xFFFFFEEA (-22)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEEB (-21)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEEC (-20)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEED (-19)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEEF (-18)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEF0 (-17)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEF1 (-16)	Intel(R) Ethernet Controller I226-IT	
(PCI) 0xFFFFFEF2 (-15)	Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)	
(PCI) 0xFFFFFEF3 (-14)	Intel(R) UHD Graphics	
(PCI) 0xFFFFFEF4 (-13)	Standard NVM Express Controller	
(PCI) 0xFFFFFEF5 (-12)	Standard NVM Express Controller	
(PCI) 0xFFFFFEF6 (-11)	Standard NVM Express Controller	
(PCI) 0xFFFFFEF7 (-10)	Standard NVM Express Controller	
(PCI) 0xFFFFFEF8 (-9)	Standard NVM Express Controller	
(PCI) 0xFFFFFEF9 (-8)	Standard NVM Express Controller	
(PCI) 0xFFFFFEFA (-7)	Standard NVM Express Controller	
(PCI) 0xFFFFFEFB (-6)	Standard NVM Express Controller	
(PCI) 0xFFFFFEFC (-5)	Standard NVM Express Controller	
(PCI) 0xFFFFFEFD (-4)	Standard SATA AHCI Controller	
(PCI) 0xFFFFFEFE (-3)	Intel(R) PCI Express Root Port #10 - 51B1	
(PCI) 0xFFFFFEFF (-2)	Intel(R) PCI Express Root Port #1 - 51B8	