PIC-TWL1
User's Manual

Revision: 1.0
Release Date: June 12, 2026

Trademark:

*** Specifications and Information contained in this documentation are furnished for information use only, and are subject to change at any time without notice, and should not be construed as a commitment by manufacturer.**

TABLE OF CONTENT

Environmental Protection and Safety Announcement 4

China RoHS Requirements (CN) 5

China RoHS Requirements (EN) 6

User's Notice 7

Manual Revision Information 7

Packing List 7

Chapter 1 Introduction of the Motherboard 8

1-1 Specifications 8

Ordering Information 9

1-2 Block Diagram 10

1-3 Dimension 11

1-4 I/O Placement 12

1-5 Motherboard Placement 13

1-6 Jumper Positions 15

Chapter 2 Hardware Information 16

2-1 List of Jumpers 16

2-2 Jumper Settings 16

2-3 List of Connectors 20

2-4 Connector Settings 21

2-5 Maximum Voltage & Current Limit 30

Chapter 3 Introducing BIOS 31

3-1 Entering Setup 31

3-2 BIOS Menu Screen 32

3-3 Function Keys 32

3-4 Getting Help 32

3-5 Menu Bars 33

3-6 Main Menu 33

3-7 Advanced Menu 34

3-8 Chipset Menu 42

3-9 Security Menu 44
3-10 Boot Menu 46
3-11 Save & Exit Menu 47
Appendix A 48
Mating Connectors 48
Appendix B 49
I/O Address Map 49
Memory Address Map 67
IRQ Mapping Chart 77

Environmental Protection and Safety Announcement

- Do not dispose this electronic device into the trash while discarding. To minimize pollution and ensure environment protection of mother earth, please recycle.

- Avoid the dusty, humidity and temperature extremes. Do not place the product in any area where it may become wet.

- Generally speaking, dramatic changes in temperature may lead to contact malfunction and crackles due to constant thermal expansion and contraction from the welding spots' that connect components and PCB. Computer should go through an adaptive phase before it boots when it is moved from a cold environment to a warmer one to avoid condensation phenomenon. These water drops attached on PCB or the surface of the components can bring about phenomena as minor as computer instability resulted from corrosion and oxidation from components and PCB or as major as short circuit that can burn the components. Suggest starting the computer until the temperature goes up.

- The increasing temperature of the capacitor may decrease the life of computer. Using the close case may decrease the life of other device because the higher temperature in the inner of the case.

China RoHS Requirements (CN)

产品中有毒有害物质或元素名称及含量

Main Board/ Daughter Board/ Backplane

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	X	X	O	O	O	O
外部信号连接器及线材	X	X	O	O	O	O

O: 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

SJ/T11363-2006 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出

SJ/T 11363-2006 标准规定的限量要求。

备注: 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。

China RoHS Requirements (EN)

Poisonous or Hazardous Substances or Elements in Products

Main Board/ Daughter Board/ Backplane

Component	Poisonous or Hazardous Substances or Elements					
	Lead (Pb)	**Mercury (Hg)**	**Cadmium (Cd)**	**Hexavalent Chromium (Cr(VI))**	**Polybrominated Biphenyls (PBB)**	**Polybrominated Diphenyl Ethers (PBDE)**
PCB & Other Components	X	X	O	O	O	O
Wires & Connectors for External Connections	X	X	O	O	O	O

O: The quantity of poisonous or hazardous substances or elements found in each of the component's parts is below the SJ/T 11363-2006-stipulated requirement.

X: The quantity of poisonous or hazardous substances or elements found in at least one of the component's parts is beyond the SJ/T 11363-2006-stipulated requirement.

Note: The Environment Friendly Use Period as labeled on this product is applicable under normal usage only

User's Notice

COPYRIGHT OF THIS MANUAL BELONGS TO THE MANUFACTURER. NO PART OF THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT MAY BE REPRODUCED, TRANSMITTED OR TRANSLATED INTO ANY LANGUAGE IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION OF THE MANUFACTURER.

THIS MANUAL CONTAINS ALL INFORMATION REQUIRED TO USE THIS MOTHER-BOARD SERIES AND WE DO ASSURE THIS MANUAL MEETS USER'S REQUIREMENT BUT WILL CHANGE, CORRECT ANY TIME WITHOUT NOTICE. MANUFACTURER PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, AND WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTIAL OR CONSEQUENTIAL DAMAGES (INCLUDING DAMANGES FOR LOSS OF PROFIT, LOSS OF BUSINESS, LOSS OF USE OF DATA, INTERRUPTION OF BUSINESS AND THE LIKE).

PRODUCTS AND CORPORATE NAMES APPEARING IN THIS MANUAL MAY OR MAY NOT BE REGISTERED TRADEMARKS OR COPYRIGHTS OF THEIR RESPECTIVE COMPANIES, AND THEY ARE USED ONLY FOR IDENTIFICATION OR EXPLANATION AND TO THE OWNER'S BENEFIT, WITHOUT INTENT TO INFRINGE.

Manual Revision Information

Reversion	Revision History	Date
1.0	First Edition	June 12, 2026

Packing List

Part Number	Description	QTY per Board
PIC-TWL1	PIC-TWL1 MB	1
G01-COM-H2M22-1F	COM Cable	1
F05-PICO-01-F	Heatsink	1

Chapter 1 Introduction of the Motherboard

1-1 Specifications

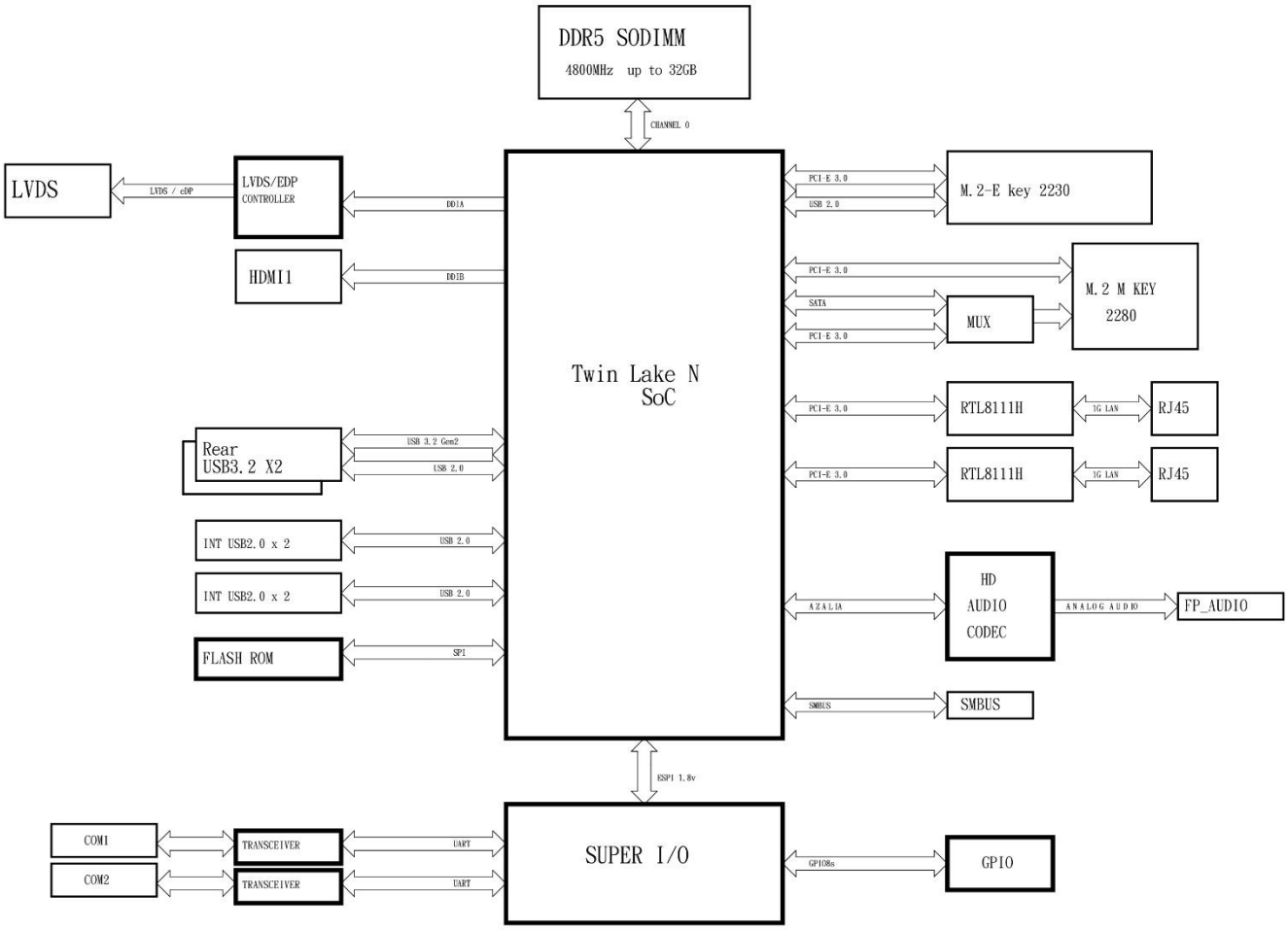
SYSTEM	
MB FORM FACTOR	Pico-ITX
CPU	Onboard Intel Atom® N150 Processor (Formerly Twin Lake, TDP 6W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MT/s, Single Channel SO-DIMM, up to 32GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM)
RTC BATTERY	Lithium Battery
DIMENSION (W X D)	100.0 (W) x 72.0 (D) mm (3.9〃 x 2.8〃)
OS SUPPORT	Windows® 11 (64bit), Linux
POWER	
POWER REQUIREMENT	DC-in 12V
CONNECTOR	DC Jack
DISPLAY	
GPU	Intel® Graphics
LVDS	1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1200 @60Hz, co-layout eDP)
HDMI®	1 x HDMI® 1.4b (Max Resolution: 3840 x 2160@30Hz)
MULTIPLE DISPLAY	Support 2 Displays
AUDIO	
CODEC	Realtek Audio Codec
COMBO	1 x Internal Header
LAN	
ETHERNET	2 x RJ45 for Realtek® RTL8111H GbE
USB PORT	
USB	2 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) Internal Header for 4 x USB 2.0
SERIAL PORT	
COM	Internal Header for 2 x RS-232/422/485
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes

FRONT PANEL	HDD Active LED, Power LED, Power On/Off, Reset
ADDITIONAL	1 x AT/ATX Mode Selection
STORAGE **PCIE & PCI** **M.2 & MINI CARD**	
M.2	1 x M-Key 2280 (PCIe Gen 3 x2/SATA interface) support NVMe 1 x E-Key 2230 (USB 2.0/PCIe x1) for WIFI/BT Module
OTHERS **ENVIRONMENT&CERTIFICATION**	
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 85°C (-4°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% relative humidity, non-condensing
CERTIFICATION	CE/FCC Class A

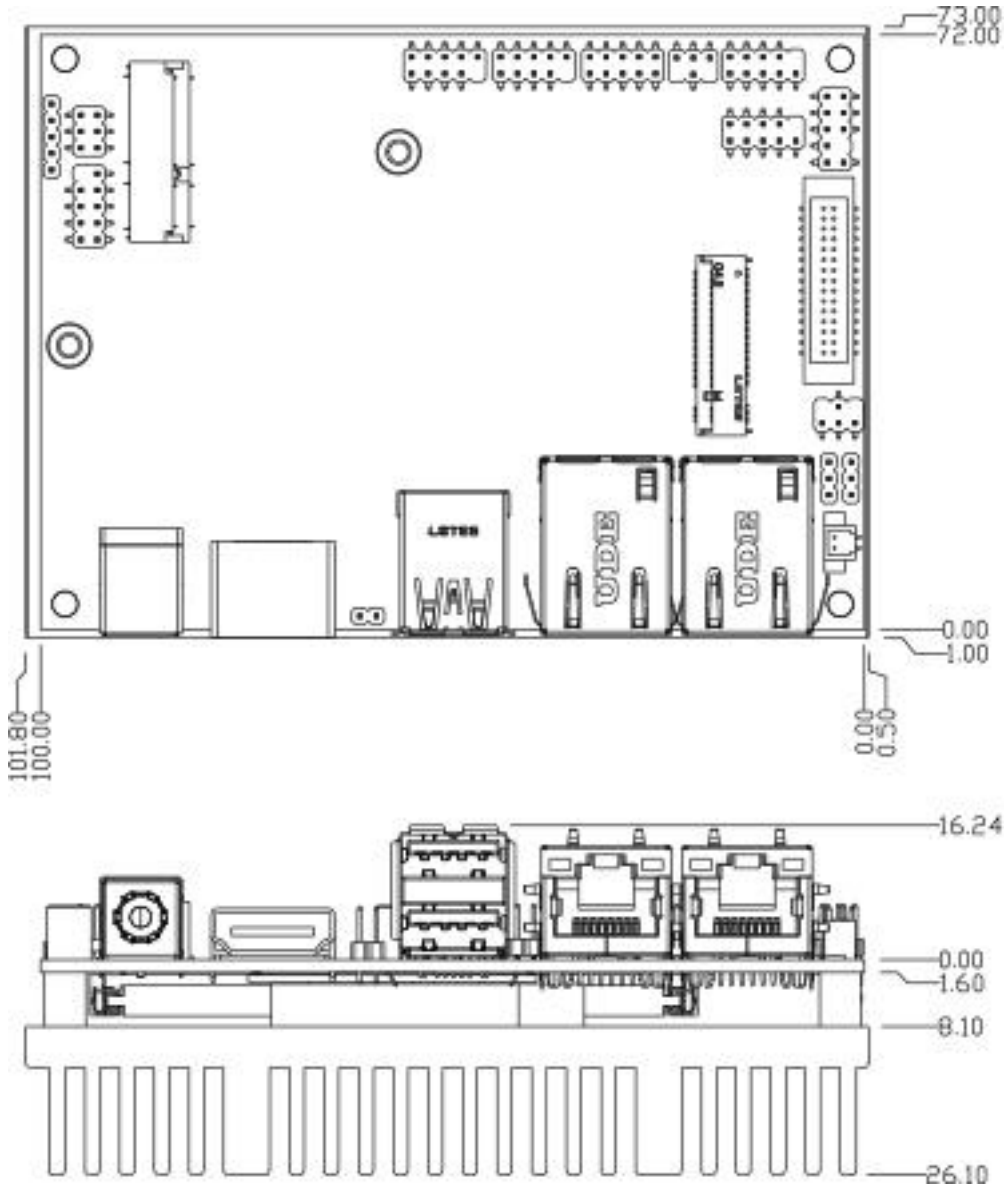
Ordering Information

Item	PIC-TWL1-N1500010
CPU	Intel® Atom® N150 Processor

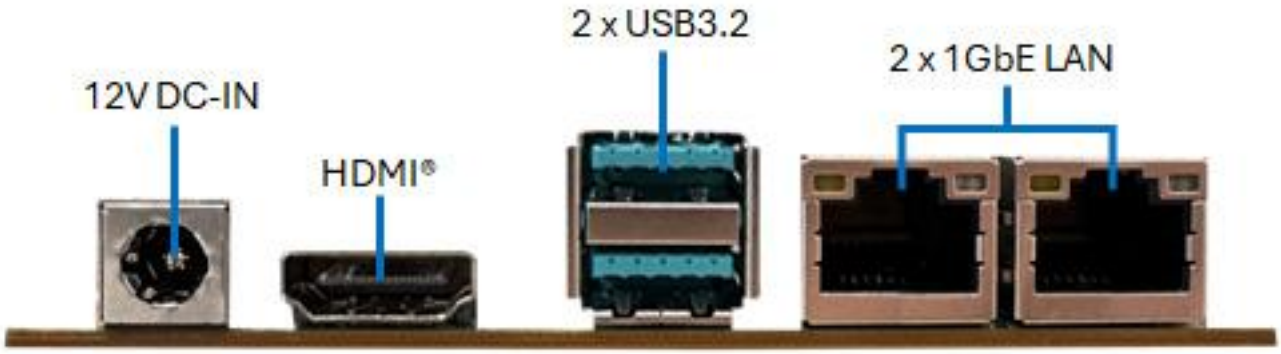
1-2 Block Diagram



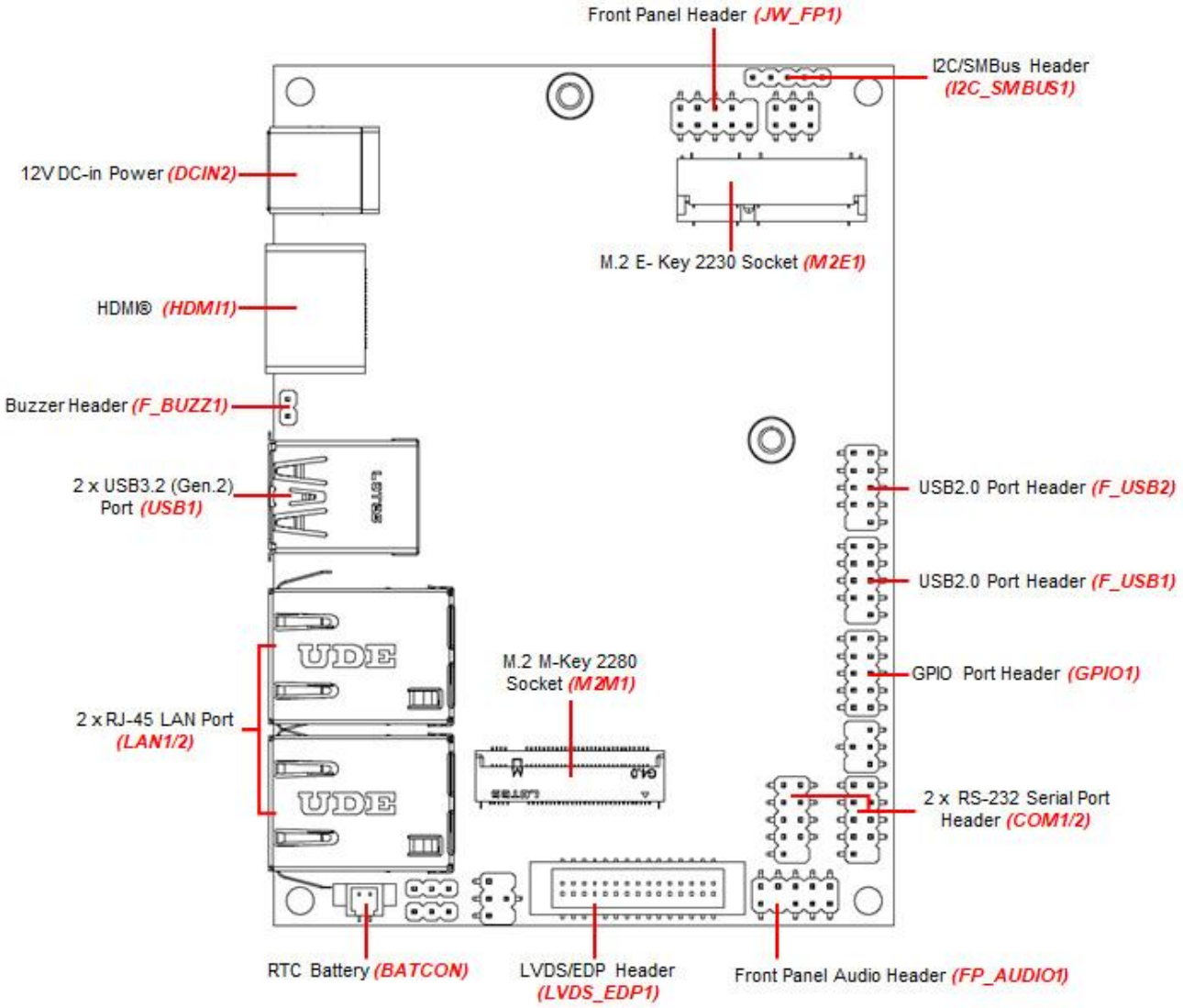
1-3 Dimension



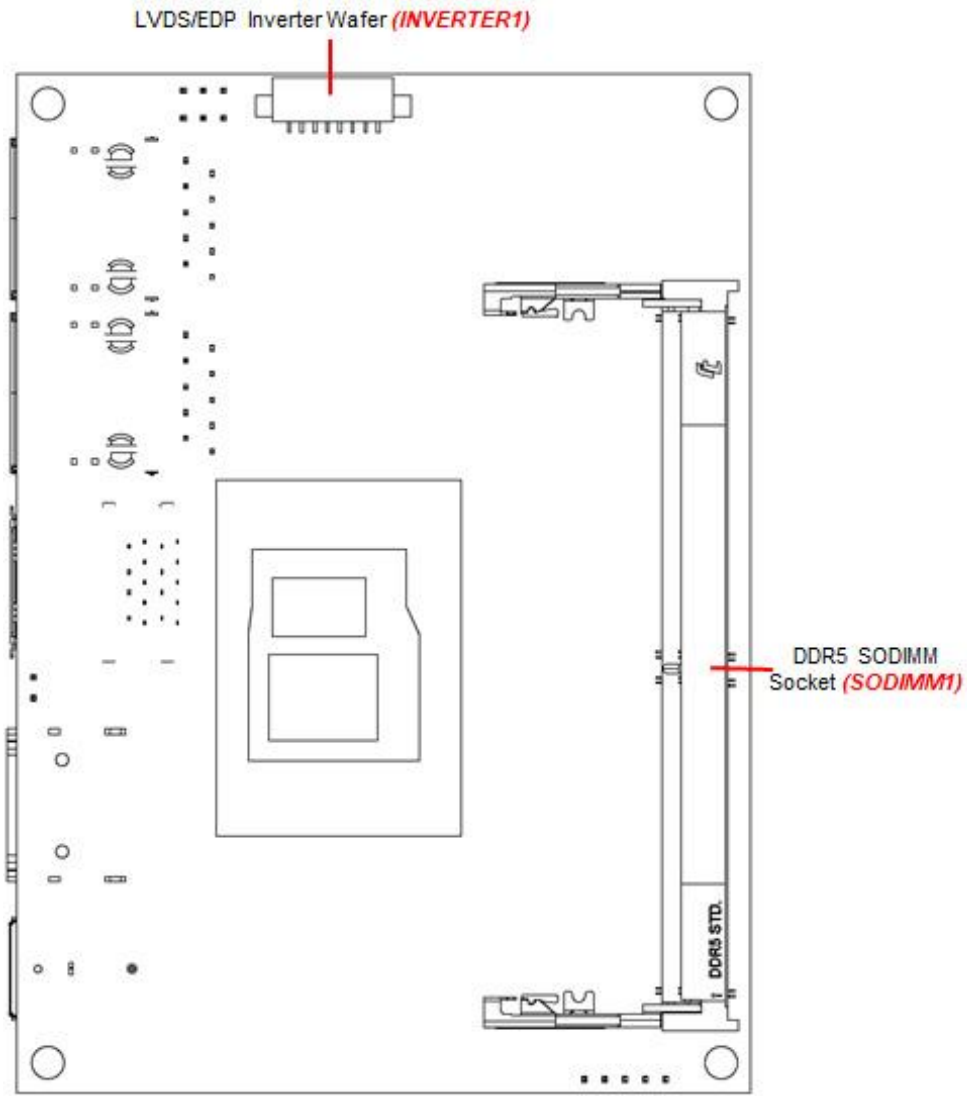
1-4 I/O Placement



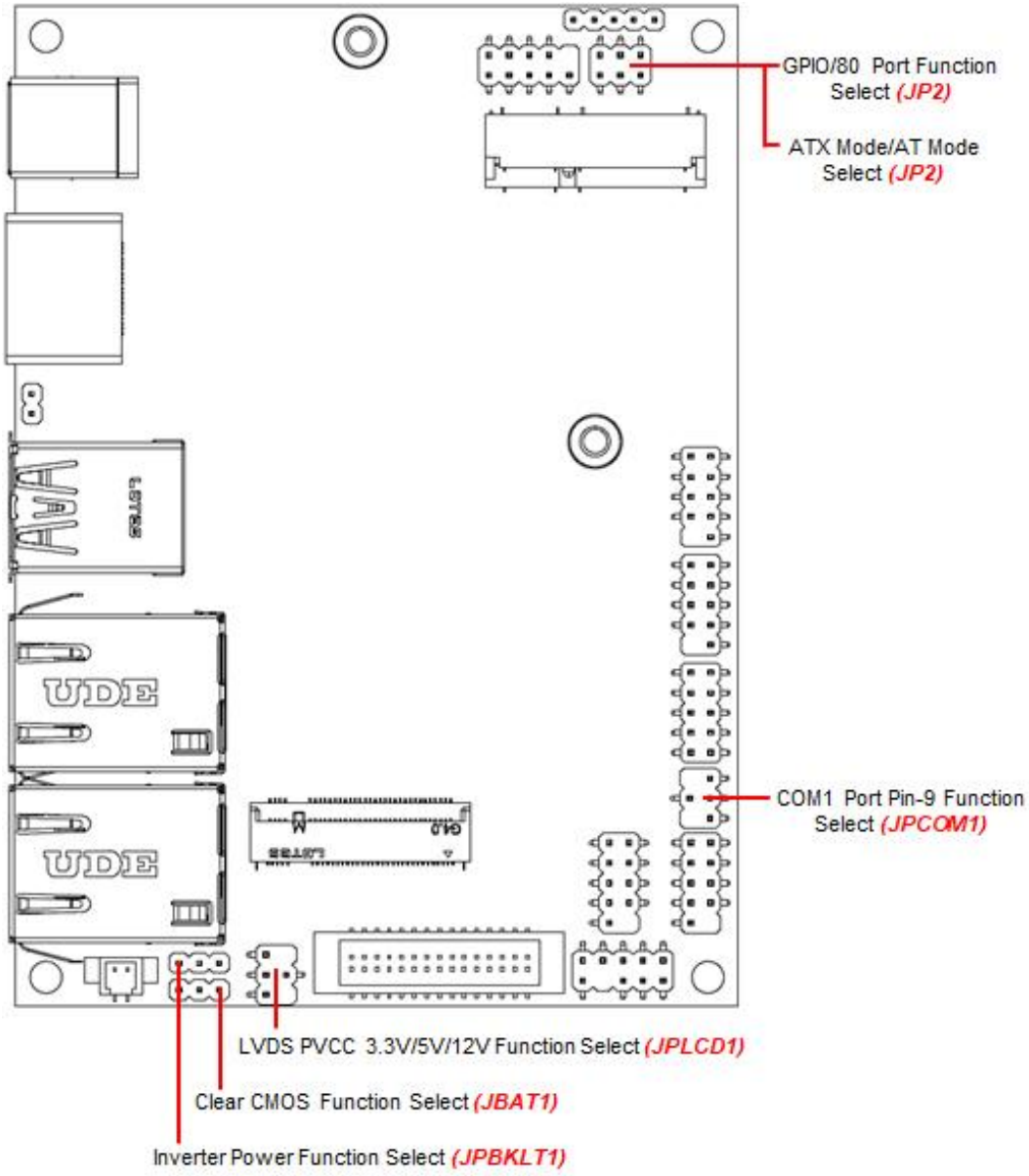
1-5 Motherboard Placement



Motherboard Placement-Back



1-6 Jumper Positions



Chapter 2 Hardware Information

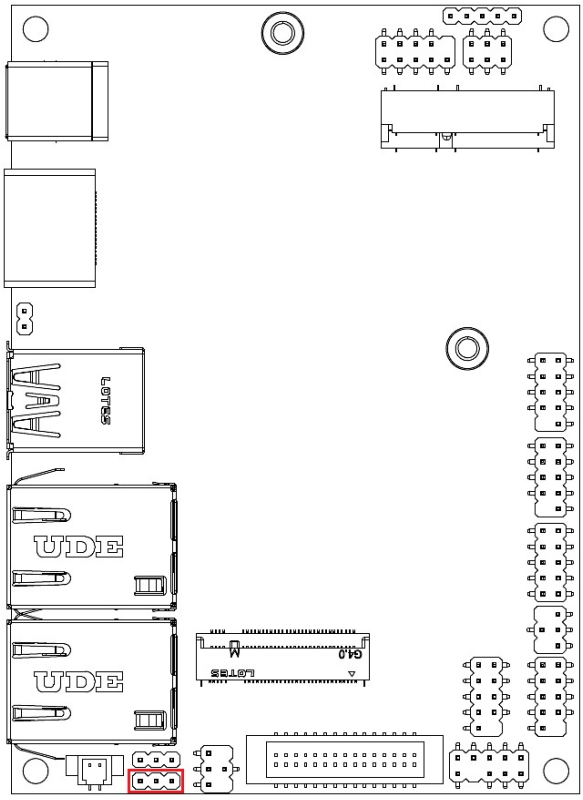
2-1 List of Jumpers

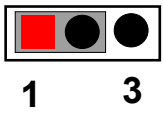
Please refer to the table below for all of the board's jumpers that you can configure for your application.

Location Printing	Function
JBAT1 2-3	Clear CMOS Function Select
JP2 1-3-5	ATX Mode/AT Mode Select
JP2 2-4-6	GPIO/80 Port Function Select
JPBKLT1	Inverter Power Function Select
JPCOM1	COM1 Port Pin-9 Function Select
JPLCD1	LVDS PVCC 3.3V/5V/12V Function Select

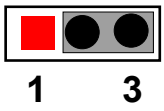
2-2 Jumper Settings

(1) Clear CMOS Function Select (JBAT1 2-3)



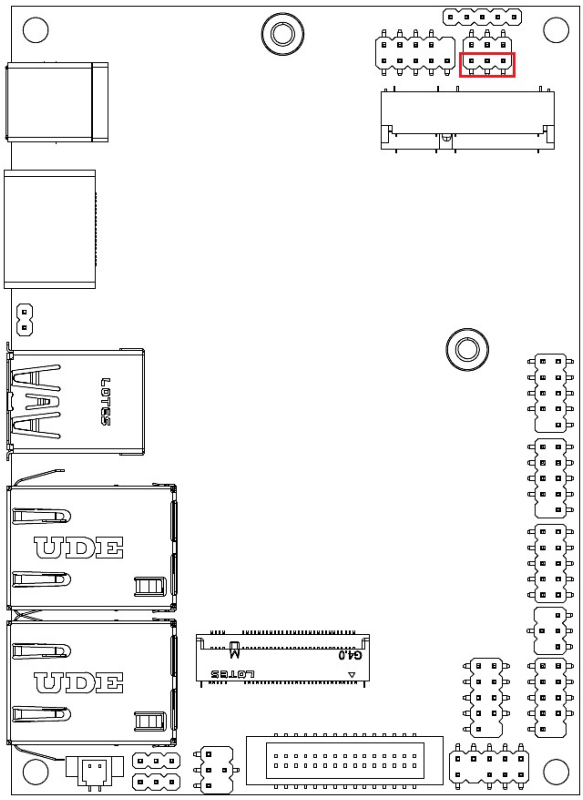


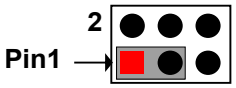
1-2 Closed: Normal



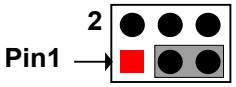
2-3 Closed: Clear CMOS

(2) ATX Mode/AT Mode Select (JP2 1-3-5)



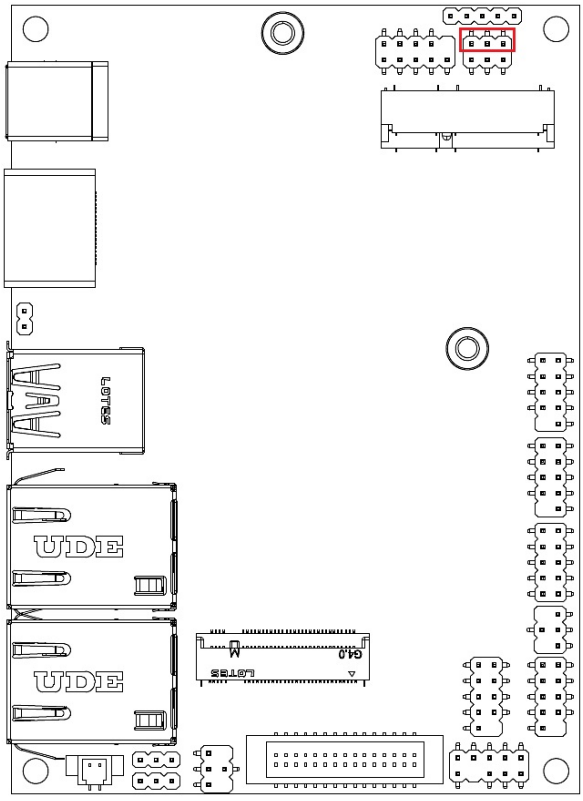


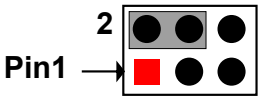
1-3 Closed: ATX Mode Selected



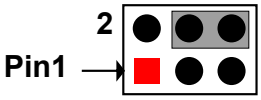
3-5 Closed: AT Mode Selected

(3) GPIO/80 Port Function Select (JP2 2-4-6)



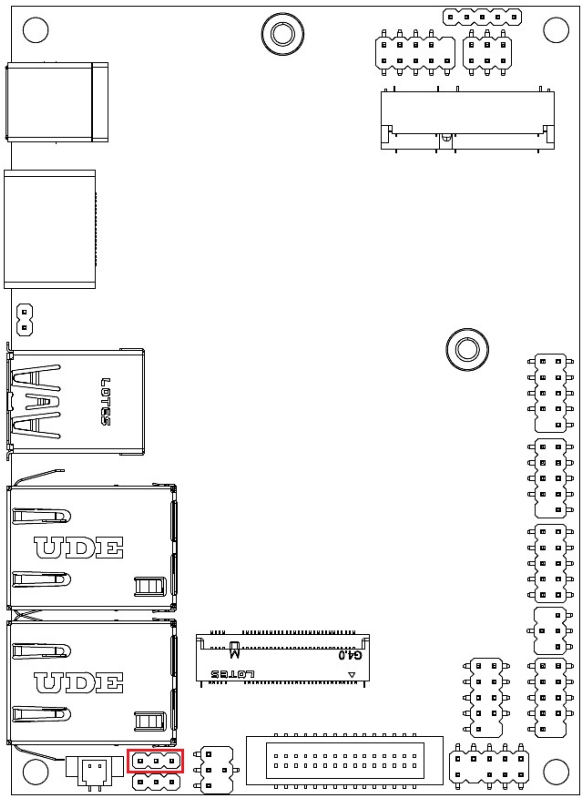


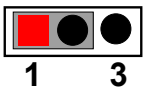
2-4 Closed: GPIO Port Selected



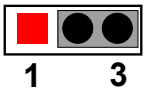
4-6 Closed: 80 Port Selected

(4) Inverter Power Function Select (JPBKLT1)



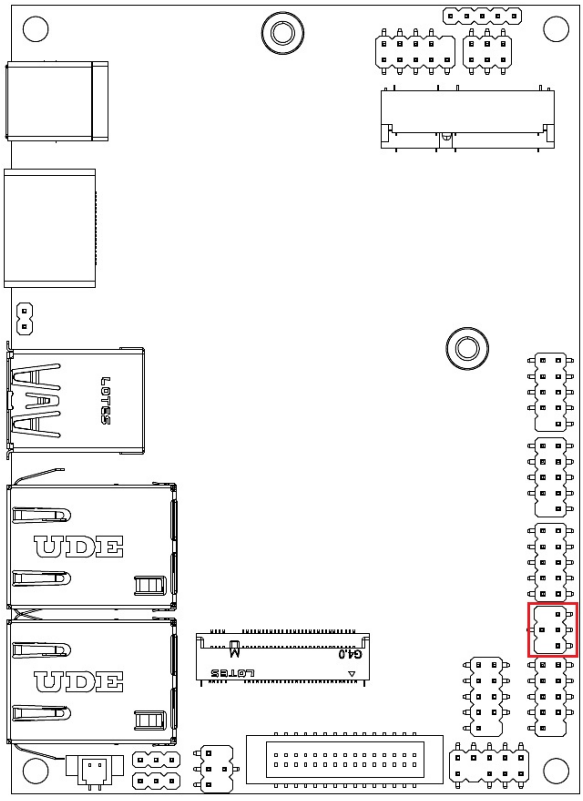


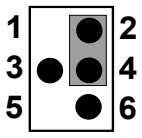
1-2 Closed: Inverter VCC =5V



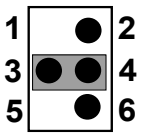
2-3 Closed: Inverter VCC =12V

(5) COM1 Port Pin-9 Function Select (JPCOM1)

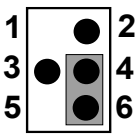




2-4 Closed:
RI= RS232

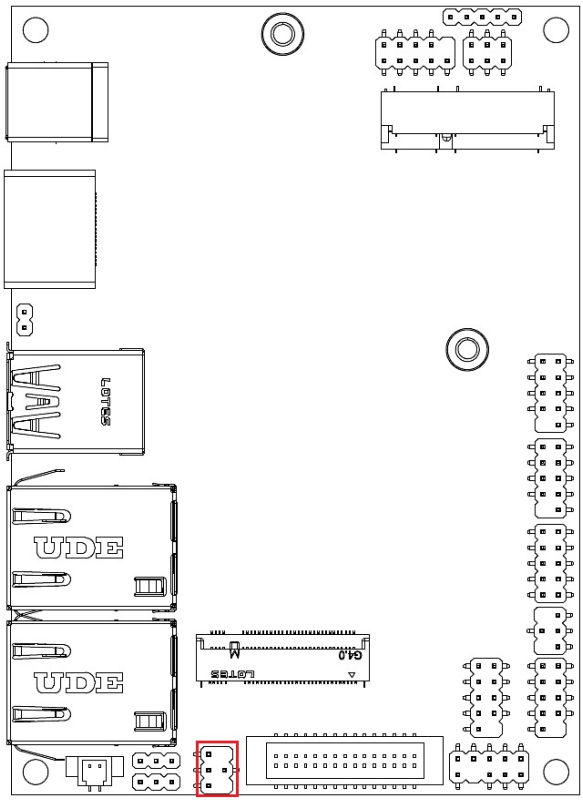


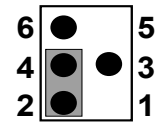
3-4 Closed:
RI= 5V



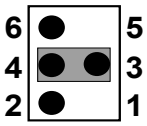
4-6 Closed:
RI= 12V

(6) LVDS PVCC 3.3V/5V/12V Function Select (JPLCD1)

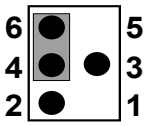




2-4 Closed
VCC= 3.3V



3-4 Closed
VCC= 5V



4-6 Closed
VCC= 12V

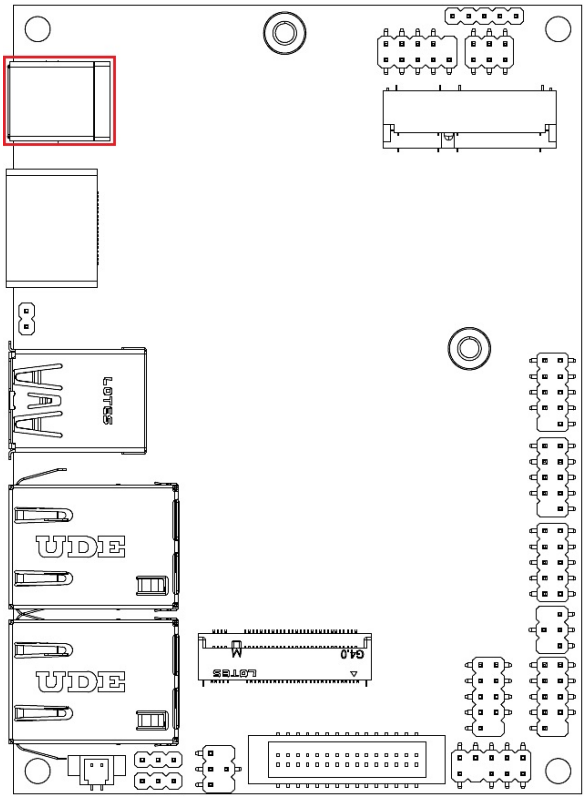
2-3 List of Connectors

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

Location Printing	Function
DCIN2	12V DC-in Power Connector
HDMI1	HDMI Connector
F_BUZZ1	Buzzer Header
USB1	USB 3.2 Gen2 Connector
LAN1	RJ-45 1G LAN Port Connector
LAN2	RJ-45 1G LAN Port Connector
BATCON1	RTC Battery Connector
LVDS_EDP1	LVDS/EDP LCD Panel Wafer
FP_AUDIO1	Front Panel Audio Header
M2M1	M.2 2280 Key M Socket
COM1	RS-232 Serial Port Header
COM2	RS-232 Serial Port Header
GPIO1	GPIO Port Header
F_USB1	USB 2.0 Port Header
F_USB2	USB 2.0 Port Header
M2E1	M.2 2230 Key E Socket
JW_FP1	Front Panel Header
I2C_SMBUS1	I2C or SMBus Header
INVERTER1	LVDS/eDP Inverter Wafer
SODIMM1	DDR5 SODIMM Socket

2-4 Connector Settings

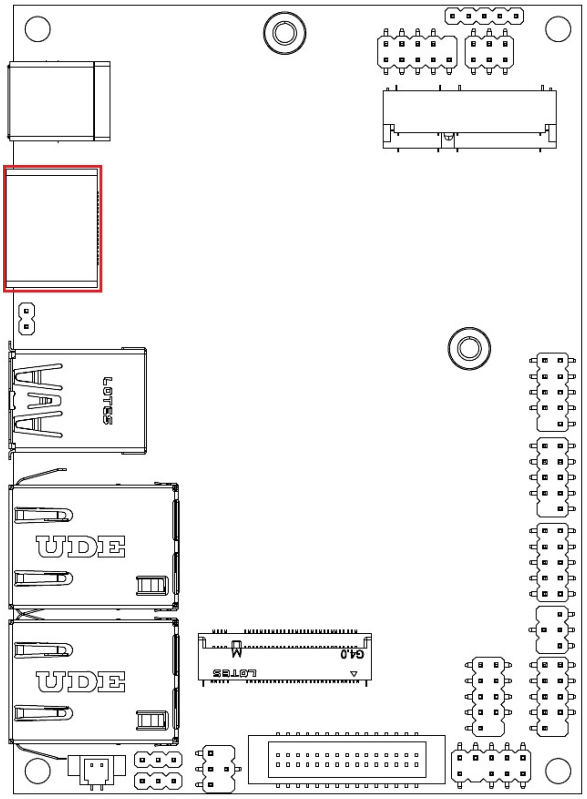
(1) 12V DC-in Power Connector (DCIN2)





Note: Standard specifications.

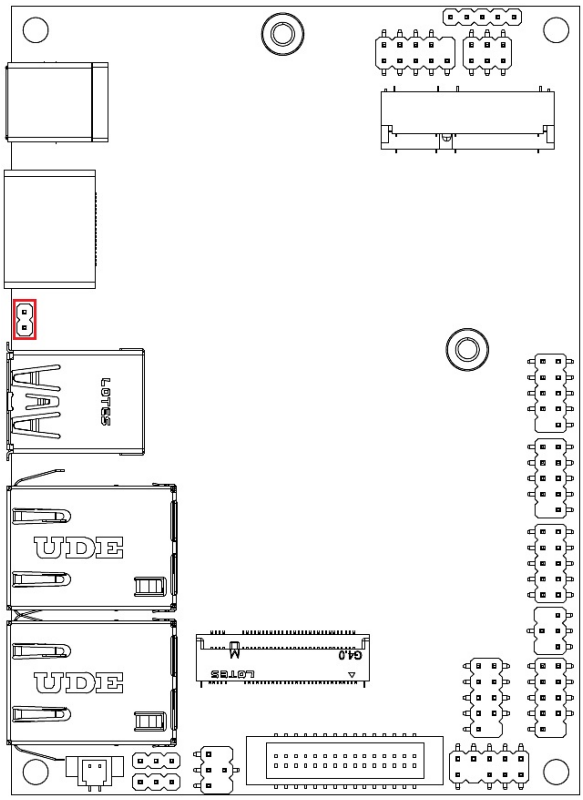
(2) HDMI Connector (HDMI1)

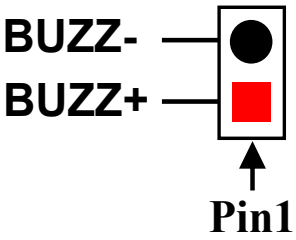




Note: Standard specifications.

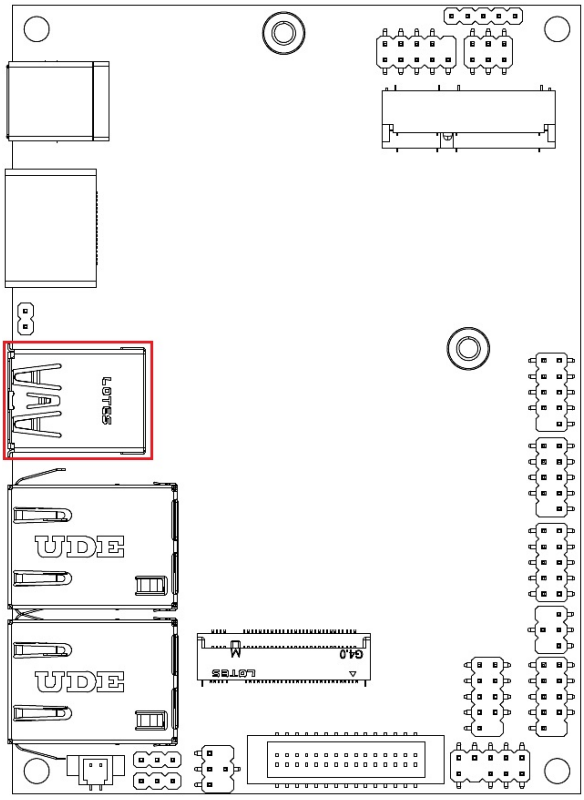
(3) Buzzer Header (F_BUZZ1)

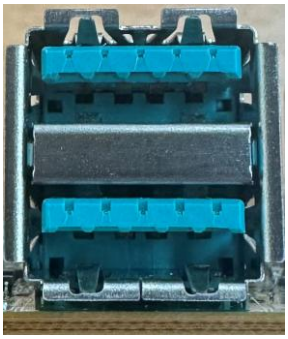




Note: Standard specifications.

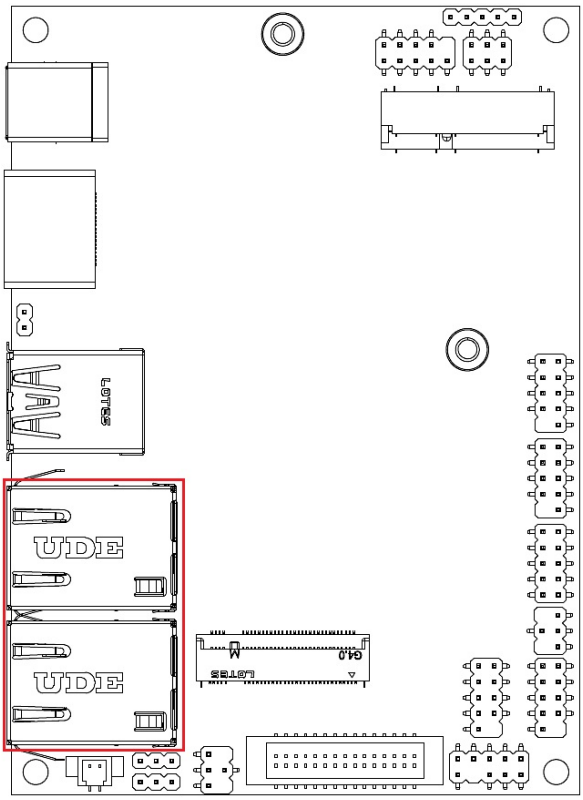
(4) USB 3.2 Gen2 Connector (USB1)

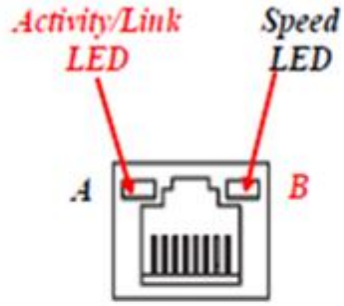




Note: Standard specifications.

(5) RJ-45 1G LAN Port Connector (LAN1/2)



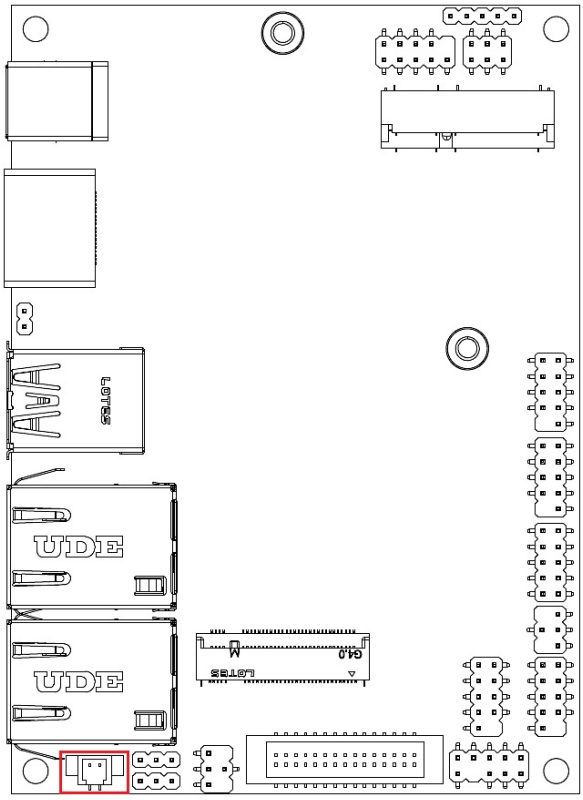


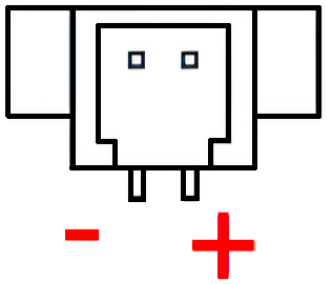
A: Activity/Link LED		B: Speed LED	
Status	**Description**	**Status**	**Description**
Off	No Link	Off	10/100Mbps connection
Blinking	Data Activity	Orange	1000Mbps connection
On	Link	Green	2.5Gbps connection

Note:* ***2.5Gbps* *high-speed transmission rate is* ***only*** *supported over* ***CAT 5e UTP cable****.*

Note: Standard specifications.

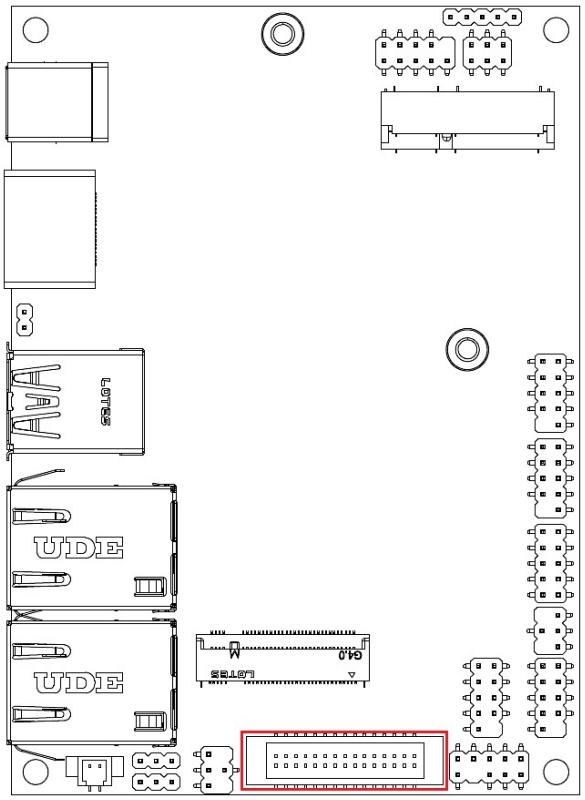
(6) RTC Battery Connector (BATCON1)

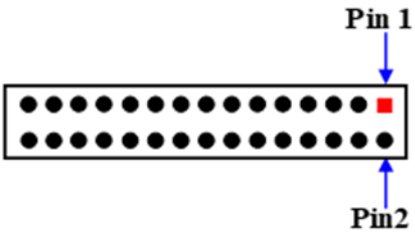




Note: Standard specifications.

(7) LVDS/EDP LCD Panel Wafer (LVDS_EDP1)

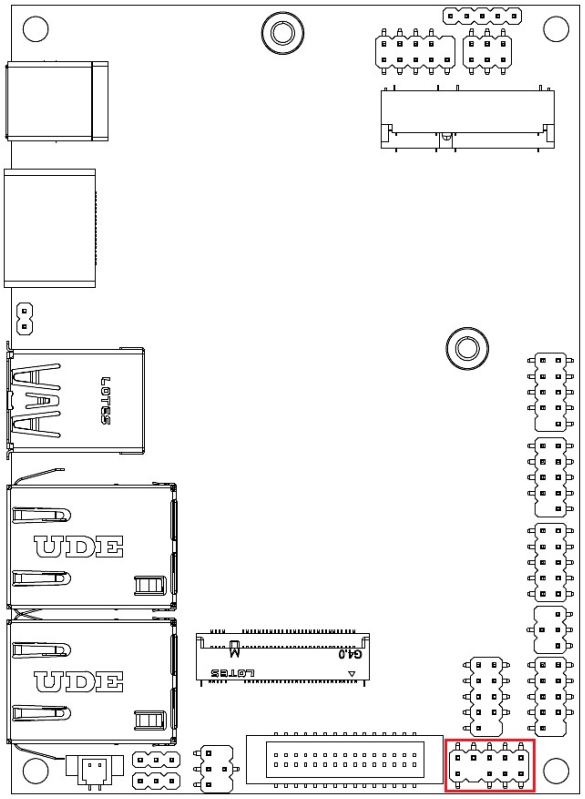


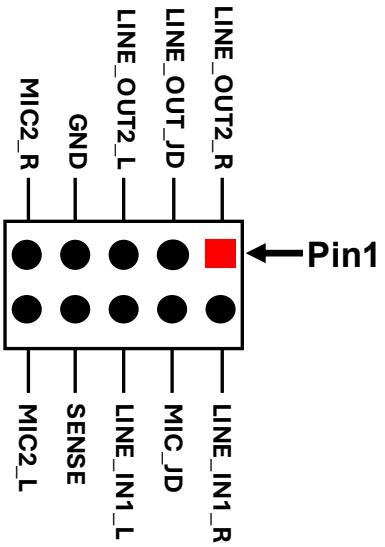


Pin Define	Pin NO.	Pin NO.	Pin Define
LCD_VCC	Pin 30	Pin 29	LCD_VCC
LCD_VCC	Pin 28	Pin 27	LCD_VCC
LVDSA_DATAN0	Pin 26	Pin 25	LVDSA_DATAP0
LVDSA_DATAN1_eDP_TX1N	Pin 24	Pin 23	LVDSA_DATAP1_eDP_TX1P
LVDSA_DATAN2_eDP_TX0N	Pin 22	Pin 21	LVDSA_DATAP2_eDP_TX0P
LVDS_CLKAN_eDP_AUXN	Pin 20	Pin 19	LVDS_CLKAP_eDP_AUXP
LVDSA_DATAN3	Pin 18	Pin 17	LVDSA_DATAP3
GND	Pin 16	Pin 15	GND
GND	Pin 14	Pin 13	GND
LVDS_DDC_SCL	Pin 12	Pin 11	LVDS_DDC_SDA
LVDSB_DATAP0	Pin 10	Pin 9	LVDSB_DATAN0
LVDSB_DATAP1	Pin 8	Pin 7	LVDSB_DATAN1
LVDSB_DATAP2	Pin 6	Pin 5	LVDSB_DATAN2
LVDS_CLKBP	Pin 4	Pin 3	LVDS_CLKBN
LVDSB_DATAP3	Pin 2	Pin 1	LVDSB_DATAN3

Note: Standard specifications.

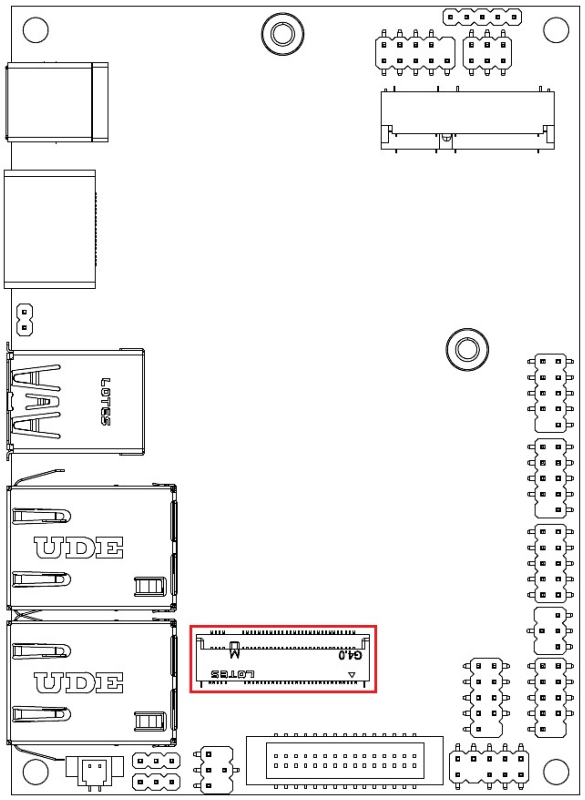
(8) Front Panel Audio Header (FP_AUDIO1)





Note: Standard specifications.

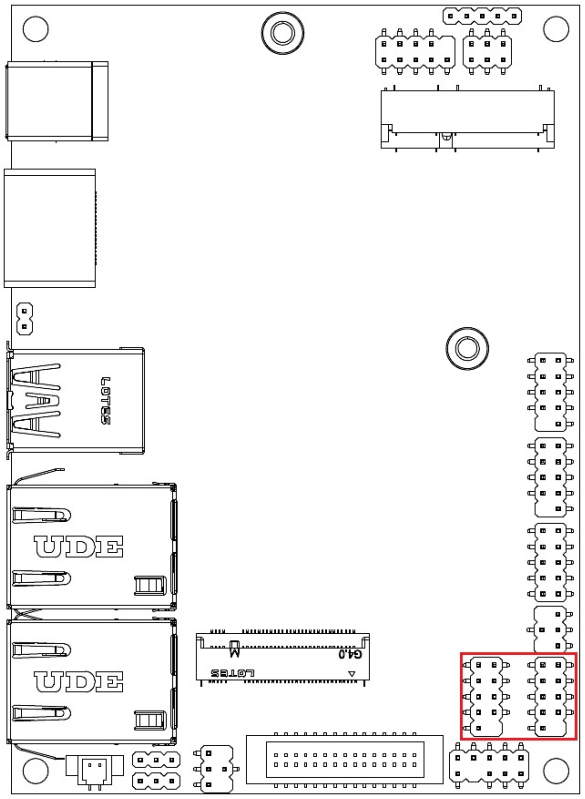
(9) M.2 2280 Key M Socket (M2M1)

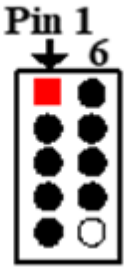




Note: Standard specifications.

(10) RS-232 Serial Port Header (COM1/2)

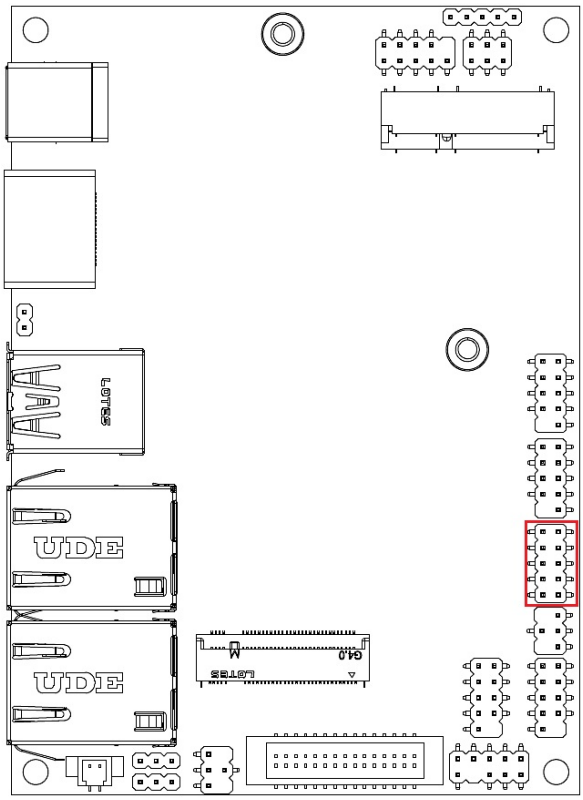


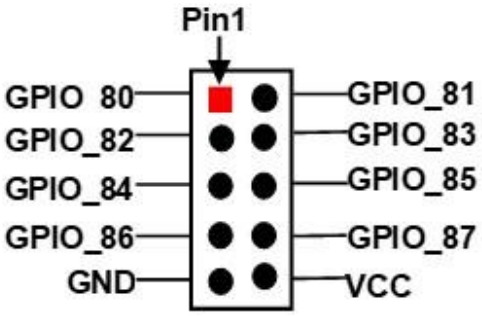


Pin NO.	RS232	*RS422 (optional)	*RS485 (optional)
Pin 1	DCD	TX-	DATA-
Pin 2	RXD	TX+	DATA+
Pin 3	TXD	RX+	NC
Pin 4	DTR	RX-	NC
Pin 5	GND	GND	GND
Pin 6	DSR	NC	NC
Pin 7	RTS	NC	NC
Pin 8	CTS	NC	NC
Pin 9	RI	NC	NC

Note: Standard specifications.

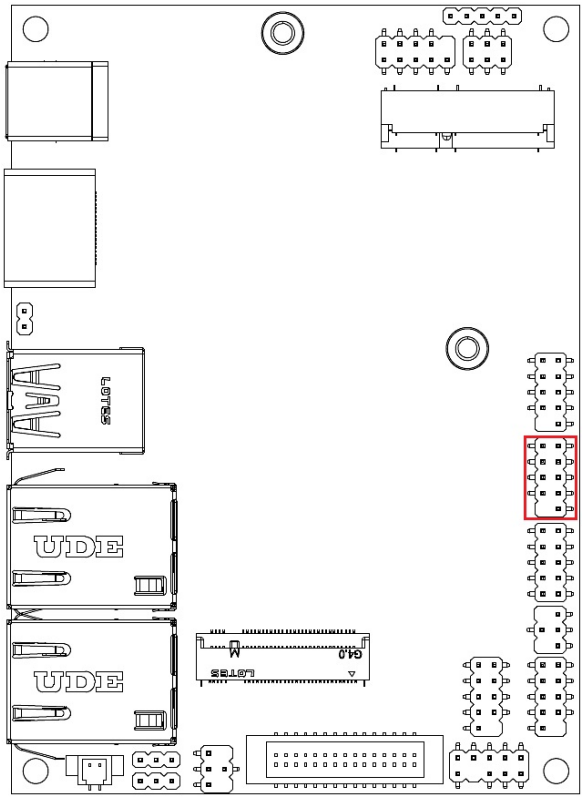
(11) GPIO Port Header (GPIO1)

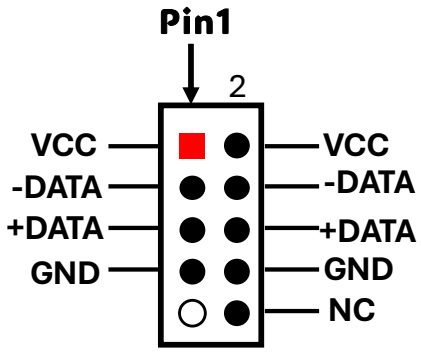




Note: Standard specifications.

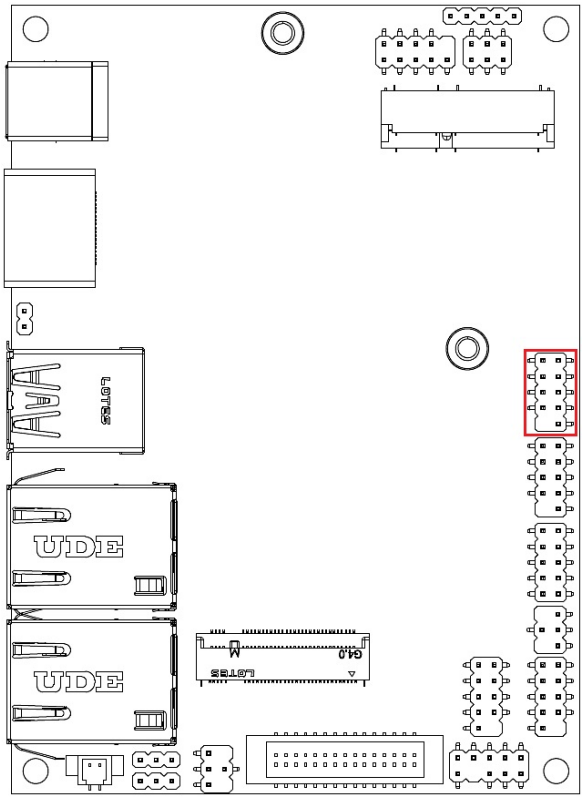
(12) USB 2.0 Port Header (F_USB1)

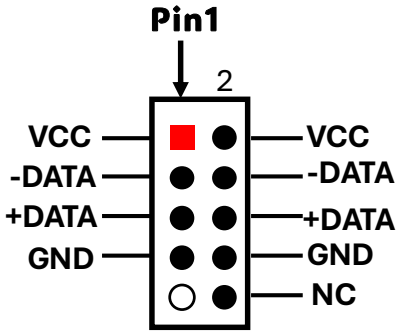




Note: Standard specifications.

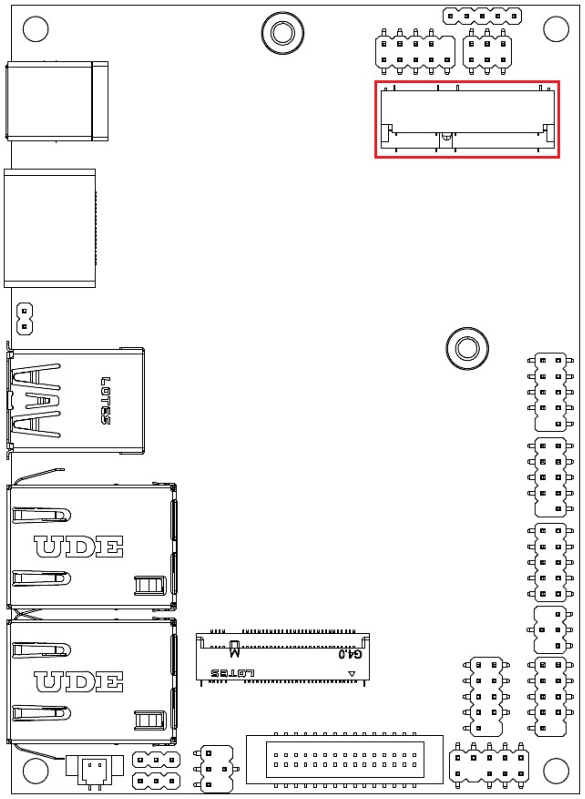
(13) USB 2.0 Port Header (F_USB2)





Note: Standard specifications.

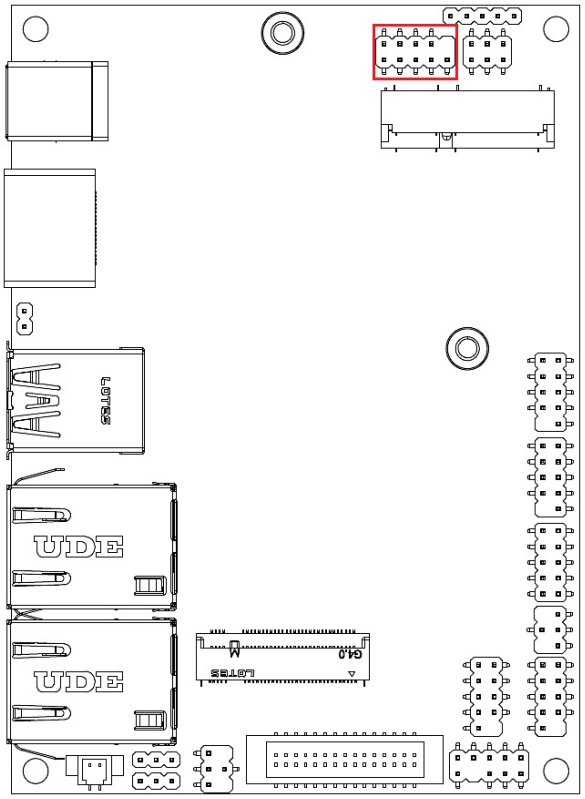
(14) M.2 2230 Key E Socket (M2E1)

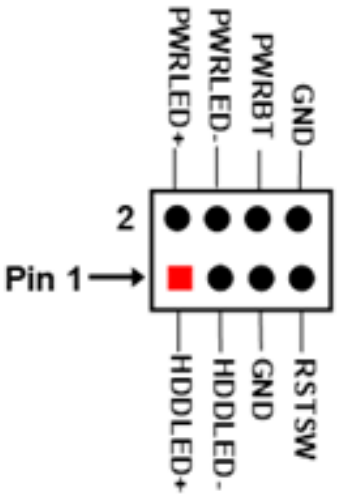




Note: Standard specifications.

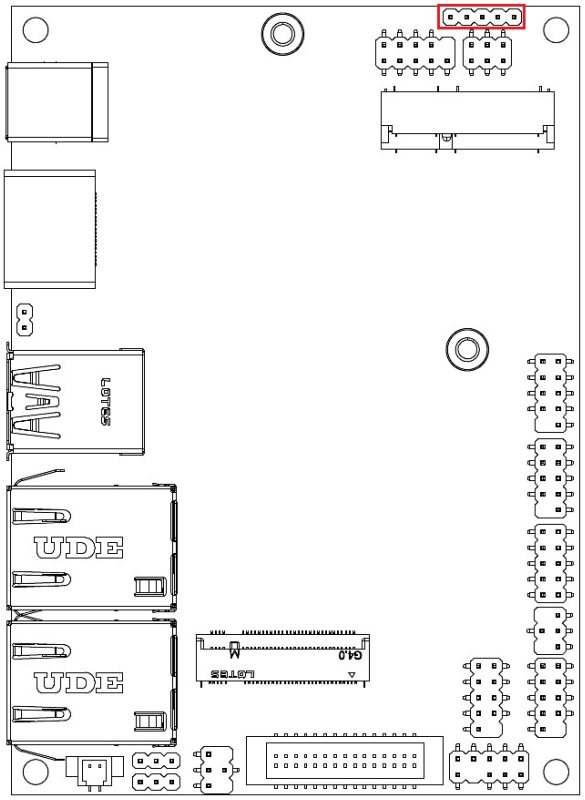
(15) Front Panel Header (JW_FP1)

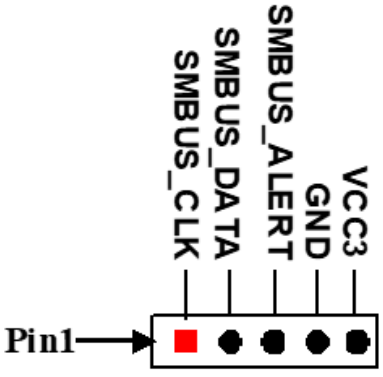




Note: Standard specifications.

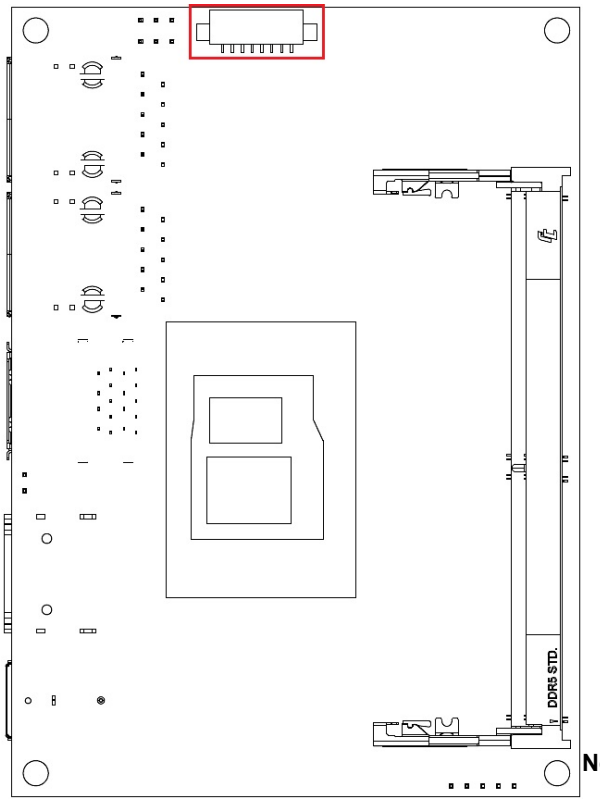
(16) I2C or SMBus Header (I2C_SMBUS1)

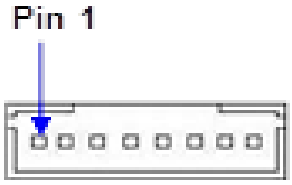




Note: Standard specifications.

(17) LVDS/eDP Inverter Wafer (INVERTER1)

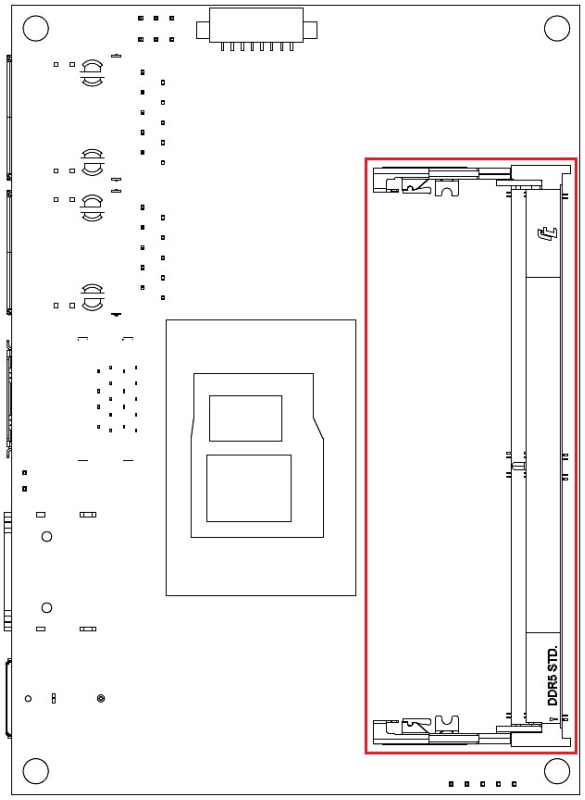


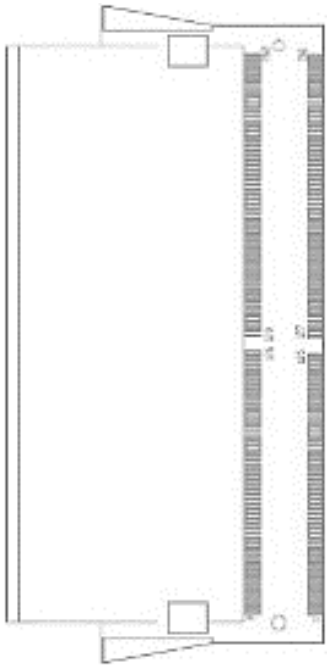


Pin No.	Definition
1	Backlight Enable
2	Backlight PWM
3	PVCC
4	PVCC
5	GND
6	GND
7	Backlight Up SW
8	Backlight Down SW

Note: Standard specifications.

(18) DDR5 SODIMM Socket (SODIMM1)





Note: Standard specifications.

2-5 Maximum Voltage & Current Limit

Below is a list of maximum voltage & Current Limit specification for motherboard interface (including but not limited to slots, connectors and headers) for setup reference:

Parts		Working Voltage	Current Support
USB Port From	USB1	5V	2A
	FP_USB1	5V	1.5A
	FP_USB2	5V	1.5A
JW_FP1		5V	1A
LVDS/EDP1		3.3V/5V/12V (via jumper setting)	2A
LVDS/EDP1		5V/12V/Adapter VCC (via jumper setting)	2A
GPIO1		5V	1A
I2C_SMBUS1		5V	0.3A

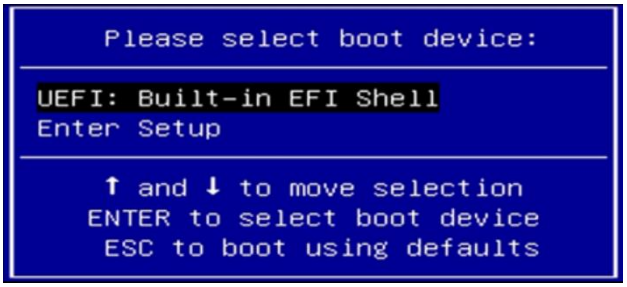
Chapter 3 Introducing BIOS

Notice!	The BIOS options in this manual are for reference only. Different configurations may lead to difference in BIOS screen and BIOS screens in manuals are usually the first BIOS version when the board is released and may be different from your purchased motherboard. Users are welcome to download the latest BIOS version form our official website.

The BIOS is a program located on a Flash Memory on the motherboard. This program is a bridge between motherboard and operating system. When you start the computer, the BIOS program will gain control. The BIOS first operates an auto-diagnostic test called POST (power on self test) for all the necessary hardware, it detects the entire hardware device and configures the parameters of the hardware synchronization. Only when these tasks are completed done it gives up control of the computer to operating system (OS). Since the BIOS is the only channel for hardware and software to communicate, it is the key factor for system stability, and in ensuring that your system performance as its best.

3-1 Entering Setup

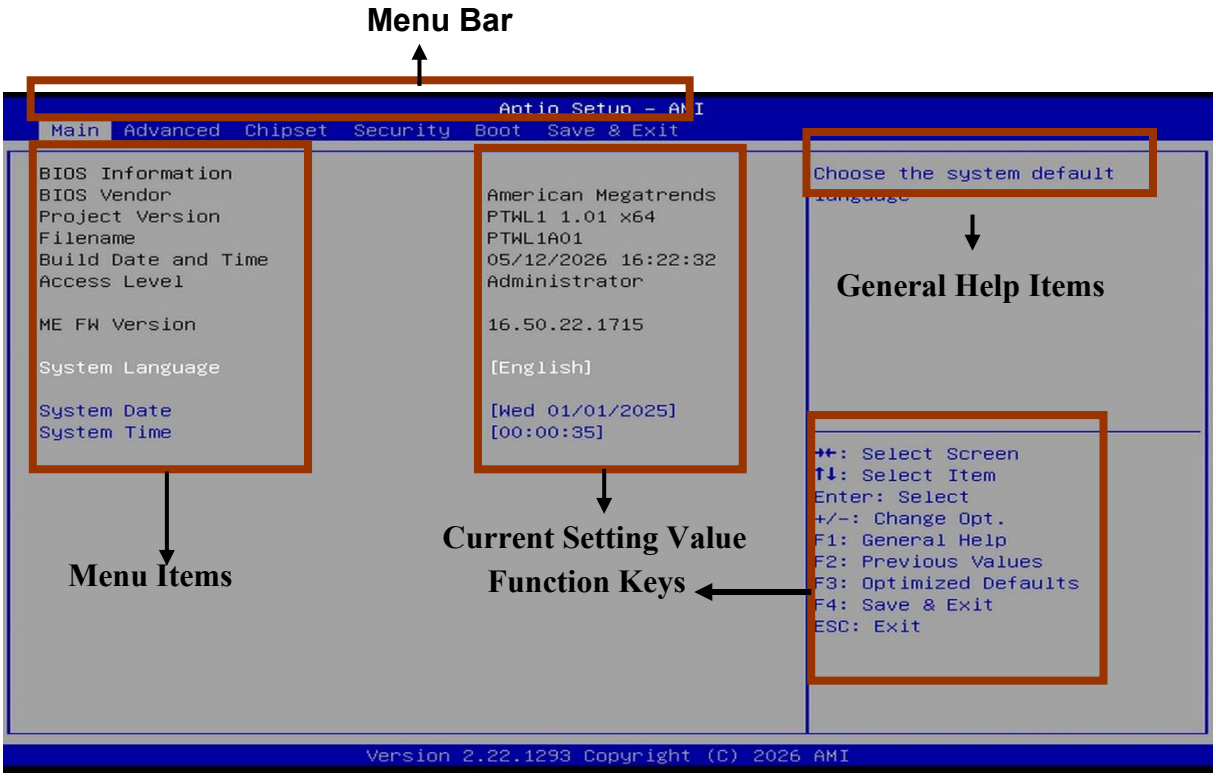
Power on the computer and by pressing <Del> immediately allows you to enter Setup.
If the message disappears before your respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the “RESET” button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt> and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to Press **<Del>** to enter Setup; press < **F7**> to enter pop-up Boot menu.



BIOS Boot Menu Screen (boot device options please refer to actual configuration)

3-2 BIOS Menu Screen

The following diagram show a general BIOS menu screen:



3-3 Function Keys

In the above BIOS Setup main menu of, you can see several options. We will explain these options step by step in the following pages of this chapter, but let us first see a short description of the function keys you may use here:

- Press←→ (left, right) to select screen.
- Press ↑↓ (up, down) to choose, in the main menu, the option you want to confirm or to modify.
- Press <Enter> to select.
- Press <+>/<–> keys when you want to modify the BIOS parameters for the active option.
- [F1]: General help.
- [F2]: Previous values.
- [F3]: Optimized defaults.
- [F4]: Save & Exit.
- Press <Esc> to exit from BIOS Setup.

3-4 Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the top right corner the

screen.

Status Page Setup Menu/Option Page Setup Menu

Press 【F1】 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window, press **<Esc>**.

3-5 Menu Bars

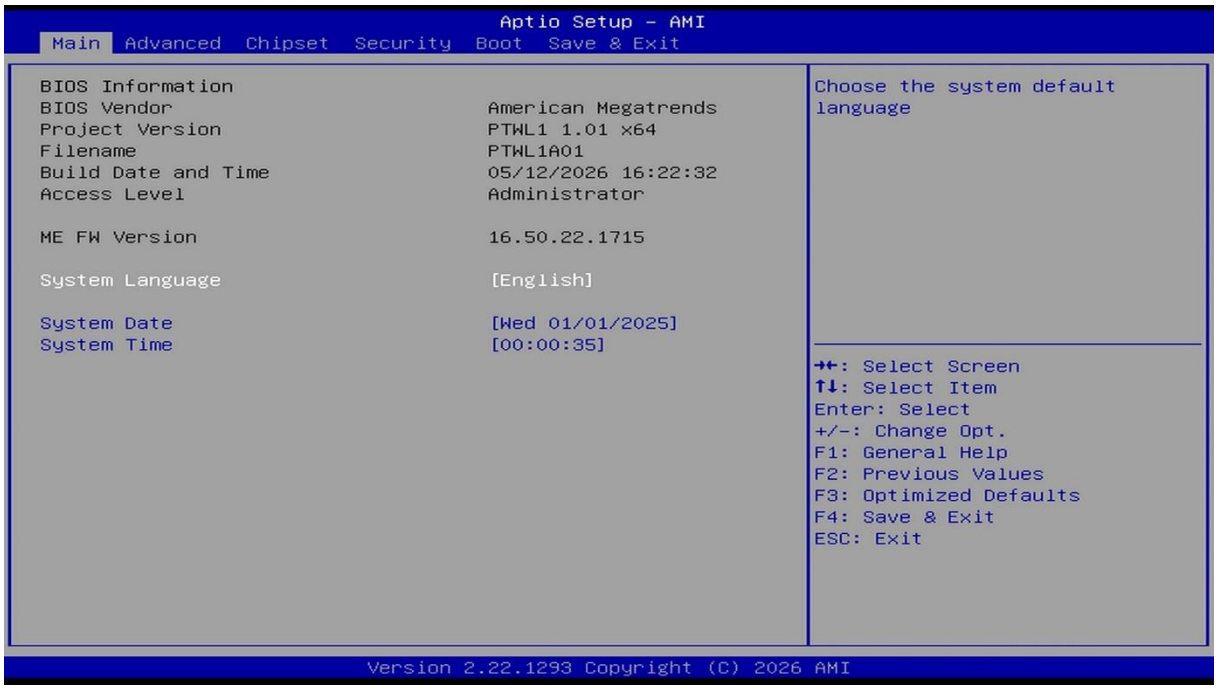
There are six menu bars on top of BIOS screen:

Main	To change system basic configuration
Advanced	To change system advanced configuration
Chipset	To change chipset configuration
Security	Password settings
Boot	To change boot settings
Save & Exit	Save setting, loading and exit options.

User can press the right or left arrow key on the keyboard to switch from menu bar. The selected one is highlighted.

3-6 Main Menu

Main menu screen includes some basic system information. Highlight the item and then use the <+> or <-> and numerical keyboard keys to select the value you want in each item.



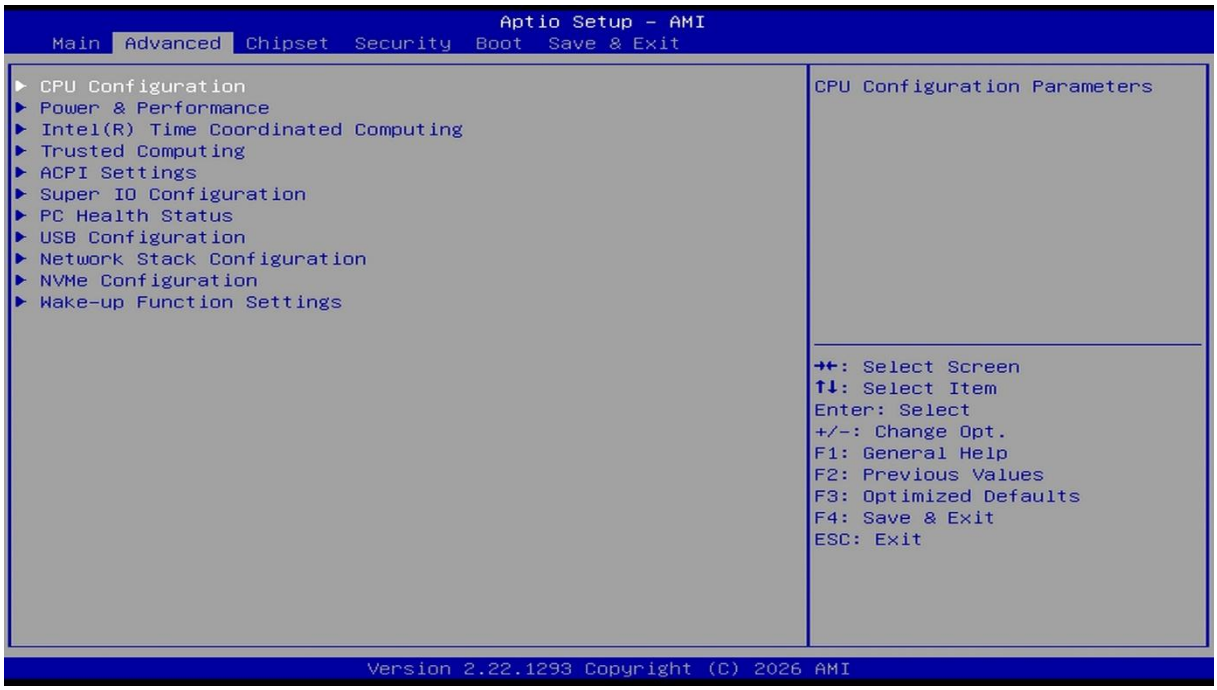
System Date

Set the date. Please use [Tab] to switch between date elements.

System Time

Set the time. Please use [Tab] to switch between time elements.

3-7 Advanced Menu



- **CPU Configuration**
  Press [Enter] to view current CPU configuration and make settings for the following sub-items:
- **Efficient-Core Information**
  Use this item to displays the E-Core information.
  Press [Enter] to make settings for the following sub-items:

  L1 Date Cache/L1 Instruction Cache/L2 Cache/L3 Cache
- **Performance-Core Information**

  Boot Performance Mode
  Use this item to select the performance state that the BIOS will set starting from reset vector.
  Boot Performance Mode Set the default value to: [Turbo Performance]
  The optional settings: [Max Battery]; [Max Non-Turbo Performance]; [Turbo Performance].
  Intel(R) SpeedStep(tm)
  This item allows more than two frequency ranges to be supported.
  Intel(R) SpeedStep(tm) Set the default value to: [Enabled]
  The optional settings: [Disabled]; [Enabled].
  Turbo Mode
  Use this item to enable or disable processor Turbo Mode (requires Intel Speed Step or Intel Speed Shift to be available and enabled).
  Turbo Mode Set the default value to: [Enabled]
  The optional settings: [Disabled]; [Enabled]; [Customized]
  C states
  Use this item to enable or disable CPU Power Management. When set as [Enabled], it allows CPU to go to C states when it's not 100% utilized.
  C states Set the default value to: [Enabled]
  The optional settings: [Disabled]; [Enabled].
  Enhanced C-states
  Use this item to Enable/Disable C1E. When enabled, CPU will switch to minimum speed when all cores enter C-State.

Enhanced C-states Set the default value to: [Enabled]
The optional settings: [Disabled]; [Enabled].

Package C State Limit

Use this item to maximum package C State Limit setting. CPU default: leaves to factory default value. Auto: initializes to deepest available package C State Limit.
Package C State Limit Set the default value to: [Auto]
The optional settings: [C0/C1]; [C2]; [C3]; [C6]; [C7]; [C7S]; [C8]; [C9]; [C10]; [CPU Default]; [Auto].

Power & Performance

Press [Enter] to make settings for the following sub-items:

CPU – Power Management Control

CPU-Power Management Control Options.
Press [Enter] to make settings for the following sub-items:

Power Limit 1

Use this item to set Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming.
0 = no custom override. For 12.50W, enter 12500.
Overclocking SKU: Value must be between Max and Min Power Limits (specified by PACKAGE_POWER_SKU_MSR).
Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit. If value is 0, BIOS will program Processor Base Power (TDP) value.
Power Limit 1 Set the default value to: [0]

Power Limit 1 Time Window

Use this item to set Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default value (28 sec for Mobile and 8 sec for Desktop). Defines time window which Processor Base Power (TDP) value should be maintained.
Power Limit 1 Time Window Set the default value to: [0]
The optional settings are: [0]; [1]; [2]; [3]; [4]; [5]; [6]; [7]; [8]; [10]; [12]; [14]; [16]; [20]; [24]; [28]; [32]; [40]; [48]; [56]; [64]; [80]; [96]; [112]; [128].

Power Limit 2

Use this item to set Power Limit 2 Value in Milli Watts. BIOS will round to the nearest 1/8W when programming.
0=no custom override. For 12.50w, enter 12500. Processor applies control policies such that the package power does not exceed this limit.
Power Limit 2 Set the default value to: [0]

Power Limit 4 Override

If this option is disabled, BIOS will leave the default values for Power Limit.
Power Limit 4 Override Set the default value to:[Disabled].
The optional settings: [Disabled]; [Enabled].

Power Limit 4

Power Limit 4 in Milli Watts.BIOS will round to the nearest1/8W when programming. For 12.50W, enter 12500. If the value is 0, BIOS leaves default value.
Power Limit 4 Set the default value to: [0]

GT/Media - Power Management Control

Press [Enter] to make settings for the following sub-items:

RC6(Render Standby)

Use this item to check to enable render standby support.
RC6(Render Standby) Set the default value to: [Enabled]
The optional settings: [Disabled]; [Enabled].

Maximum GT frequency

Use this item to Maximum GT frequency limited by the user. Choose between 200MHZ (RPN) and 1200MHZ (RP0). Value beyond the range will be clipped to min/max supported by SKU.
Maximum GT frequency Set the default value to: [Default Max Frequency]
The optional settings: [Default Max Frequency]; [100Mhz] ; [150Mhz] ; [200Mhz] ; [250Mhz] ; [300Mhz] ; [350Mhz] ; [400Mhz] ; [450Mhz] ; [500Mhz] ; [550Mhz] ; [600Mhz] ; [650Mhz] ; [700Mhz] ; [750Mhz] ; [800Mhz] ; [850Mhz] ; [900Mhz] ; [950Mhz] ; [1000Mhz] ; [1050Mhz] ; [1100Mhz] ; [1150Mhz] ; [1200Mhz].

Disable Turbo GT frequency

Use this item to enabled: disables turbo GT frequency. Disabled: GT frequency is not limited.
Disable Turbo GT frequency Set the default value to: [Disabled]
The optional settings: [Disabled]; [Enabled].

Intel® Time Coordinated Computing

Press [Enter] to make settings in the following sub-items:

Intel® TCC Mode

Use this item to Enabled or Disabled Intel® TCC Mode. When enabled, this will modify system settings to improve real-time performance. The full list of settings and their current state are displayed below when Intel® TCC mode is enabled.

Intel® TCC Mode Set the default value to: [Disabled]

The optional settings: [Disabled]; [Enabled].

IO Fabric Low Latency

Use this item to Enabled or Disabled IO Fabric Low Latency. This will turn off some power management in the PCH IO fabrics. This option provides the most aggressive IO Fabric performance setting. S3 state is NOT supported.

IO Fabric Low Latency Set the default value to: [Disabled]

The optional settings: [Disabled]; [Enabled].

GT CLOS

Use this item to Enabled or Disabled Graphics Technology(GT) Class of Service. Enabled will reduce Gfx LLC allocation to minimize impact of Gfx wordload on LLC.

GT CLOS Set the default value to: [Disabled]

The optional settings: [Disabled]; [Enabled].

Trusted Computing

Press [Enter] to make settings in the following sub-items:

Security Device Support

Use this item to Enables or Disables BIOS support for security device. O.S will not

show security device. TCG EFI protocol and INT1A interface will not be available.
The optional settings: [Disabled]; [Enabled].
Security Device Support Set the default value to: [Enabled]
When set as [Enabled], user can make setting in the following items that appear:

SHA256 PCR Bank

Use this item to enable or disable SHA256 PCR Bank.
The optional settings: [Disabled]; [Enabled].
SHA256 PCR Bank Set the default value to: [Enabled]

SHA384 PCR Bank

Use this item to enable or disable SHA384 PCR Bank.
The optional settings: [Disabled]; [Enabled].
SHA384 PCR Bank Set the default value to: [Disabled]

SM3_256 PCR Bank

Use this item to enable or disable SM3_256 PCR Bank.
The optional settings: [Disabled]; [Enabled].
SM3_256 PCR Bank Set the default value to: [Disabled]

Pending Operation

Use this item to schedule an operation for security device.
The optional settings: [None]; [TPM Clear].
Pending Operation Set the default value to: [None]
Note:** **Your computer will reboot during restart in order to change State of Security Device.

ACPI Settings

Press [Enter] to make settings in the following sub-items:

ACPI Sleep State

Use this item to Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.
The optional settings: [Suspend Disabled]; [S3 (Suspend to RAM)].
ACPI Sleep State Set the default value to: [S3 (Suspend to RAM)]

Super IO Configuration

Press [Enter] to make settings for the following sub-items:

Super IO Configuration

Serial Port 1 Configuration

Press [Enter] to make settings for the following items:

Serial Port

Use this item to enable or disable serial port (COM).

The optional settings: [Disabled]; [Enabled].

Serial Port Set the default value to: [Enabled]

When set as [Enabled], user can make settings in the following items that appear:

Change Settings

Use this item to select an optimal settings for super IO device.

The optional settings are: [IO=3F8h; IRQ=4]; [IO=3F8h; IRQ=3,4,5,7,10,11]; [IO=2F8h; IRQ=3,4,5,7,10,11]; [IO=3E8h; IRQ=3,4,5,7,10,11]]; [IO=2E8h; IRQ=3,4,5,7,10,11].

Change Settings Set the default value to: [IO=3F8h; IRQ=4]

Transmission Mode Select

The optional settings are: [RS422]; [RS232]; [RS485].

Transmission Mode Select Set the default value to: [RS232]

Mode Speed Select

Use this item to RS232/RS422/RS485 Speed Select.

The optional settings are: [RS232/RS422/RS485=250Kbps]; [RS232=1Mbps, RS422/RS485=10Mbps].

Mode Speed Select Set the default value to: [RS232=1Mbps, RS422/RS485=10Mbps]

Serial Port 2 Configuration

Press [Enter] to make settings for the following items:

Serial Port

Use this item to enable or disable serial port (COM).

The optional settings: [Disabled]; [Enabled].

Serial Port Select Set the default value to: [Enabled]

When set as [Enabled], user can make settings in the following items that appear:

Change Settings

Use this item to select an optimal setting for super IO device.

The optional settings are: [IO=2F8h; IRQ=3]; [IO=3F8h; IRQ=3,4,5,7,10,11]; [IO=2F8h; IRQ=3,4,5,7,10,11]; [IO=3E8h; IRQ=3,4,5,7,10,11]]; [IO=2E8h; IRQ=3,4,5,7,10,11].

Change Settings Set the default value to: [IO=2F8h; IRQ=3]

Transmission Mode Select

The optional settings are: [RS422]; [RS232]; [RS485]. Transmission Mode Select Set the default value to: [RS232]

Mode Speed Select

Use this item to RS232/RS422/RS485 Speed Select. The optional settings are: [RS232/RS422/RS485=250Kbps]; [RS232=1Mbps, RS422/RS485=10Mbps].

Mode Speed Select Set the default value to: [RS232=1Mbps, RS422/RS485=10Mbps]

ERP Support

Use this item to make setting for energy-related products function. Disable ERP to active all wake-up function.

The optional settings: [Disabled]; [Enabled]. ERP Support Set the default value to: [Disabled]

System State after Power Failure

Specify what state to go to when power is re-applied after a power failure (G3 state).

The optional settings: [Always On]; [Always Off]; [Former State].

System State after Power Failure Set the default value to: [Always Off]

WatchDog Reset Timer

Use this item to support WDT reset function.

The optional settings: [Disabled]; [Enabled].

WatchDog Reset Timer Set the default value to: [Disabled]

When set as [Enabled], user can make settings in the following items that appear:

WatchDog Reset Timer Value

User can set a value in the range of [10] to [255] seconds or [1] to [255] minutes.

WatchDog Reset Timer Value Set the default value to: [10]

WatchDog Reset Timer Unit

The optional settings are: [Sec.]; [Min.].

WatchDog Reset Timer Unit Set the default value to: [Sec]

ATX Power Emulate AT Power

This item support Emulate AT power function, MB power On/Off control by power supply. Use needs to select 'AT or ATX Mode' on MB jumper at first (refer to **ATX_Mode** jumper setting Pin 1&2 of for **ATX Mode** & Pin 2&3 of **AT Mode** Select).

PC Health Status

Press [Enter] to view current hardware health status, make further settings in '**SmartFAN Configuration**'.

USB Configuration

Press [Enter] to make settings for the following sub-items:

USB Configuration

XHCI Hand-off

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

The optional settings: [Enabled]; [Disabled].

XHCI Hand-off Set the default value to: [Enabled].

USB Mass Storage Driver Support

Use this item to enable or disable USB Mass storage driver support.

The optional settings: [Disabled]; [Enabled].

USB Mass Storage Driver Support Set the default value to: [Enabled].

USB hardware delay and time-out

USB Transfer time-out

Use this item to set the time-out value for control, bulk, and interrupt transfers.

The optional settings: [1 sec]; [5 sec]; [10 sec]; [20 sec].

USB Transfer time-out Set the default value to: [20 sec]

Device reset time-out

Use this item to set USB mass storage device start unit command time-out.

The optional settings: [10 sec]; [20 sec]; [30 sec]; [40 sec].

Device reset time-out Set the default value to: [20 sec]

Device power-up delay

Use this item to set maximum time the device will take before it properly reports itself to the host controller. 'Auto' uses default value: for a root port it is 100 ms, for a hub port the delay is taken from hub descriptor.

The optional settings: [Auto]; [Manual].

Device power-up delay Set the default value to: [Auto]

Select **[Manual]** you can set value for the following sub-item: **'Device power-up delay in seconds'**, the delay range is 1 .. 40 seconds, in one second increments.

Network Stack Configuration

Press [Enter] to go to '**Network Stack**' screen to make further settings.

Network Stack

Use this item to enable or disable UEFI Network Stack.

The optional settings: [Disabled]; [Enabled].

Network Stack Set the default value to: [Disabled]

When set as **[Enabled]**, the following sub-items shall appear:

IPv4 PXE Support

Use this item to enable/disable IPv4 PXE Boot Support. When set as [Disabled], IPv4 PXE boot support will not be available.

The optional settings: [Disabled]; [Enabled].

IPv4 PXE Support Set the default value to: [Enabled]

IPv6 PXE Support

Use this item to enable/disable IPv6 PXE Boot Support. When set as [Disabled], IPv6 PXE boot support will not be available.

The optional settings: [Disabled]; [Enabled].

IPv6 PXE Support Set the default value to: [Disabled]

PXE boot wait time

Wait time in seconds to press [ESC] key to abort the PXE boot.

Use either [+]/[-] or numeric keys to set the value.

PXE boot wait time Set the default value to: [5]

Media detect count

Use this item to set number of times presence of media will be checked.

Use either [+]/[-] or numeric keys to set the value.

Media detect count Set the default value to: [5]

NVMe Configuration

Use this item to set NVMe Device options settings.

NVMe Configuration

Wake-up Function Settings

Wake-up System With Fixed Time

*This item will only show when 'Wake-up System with Dynamic Time' is set as [Disabled]. Use this item to enable or disable system wake-up by RTC alarm. When this function is enabled, system will wake on the time (hr::min::sec) specified.

The optional settings: [Disabled]; [Enabled].

Wake-up System With Fixed Time Set the default value to: [Disabled]

When set as [Enabled], user can make settings in the following items that appear:

Wake-up Hour

Use this item to select 0-23 for example enter 3 for 3am and 15 for 3pm.

Wake-up Hour Set the default value to: [0]

Wake-up Minute

Use this item to select 0-59.

Wake-up Minute Set the default value to: [0]

Wake-up Second

Use this item to select 0-59.

Wake-up Second Set the default value to: [0]

Wake-up System with Dynamic Time

*This item will only show when '**Wake-up System with Fixed Time**' is set as [Disabled].

Use this item to enable or disable system wake-up by RTC alarm. When enabled, system will wake on the current time + Increase minute(s).

Wake-up System with Dynamic Time Set the default value to: [Disabled]

When set as [Enabled], user can make settings in the following items that appear:

Wake-up Minute Increase

Use this item to select 1-60 minute(s).

Wake-up Minute Increase Set the default value to: [1]

USB Power Gating S4-S5

Use this item to USB Wake-up is affected by ERP Function in S4. Please disable ERP before activating this function in S4.

The optional settings: [Disabled]; [Enabled].

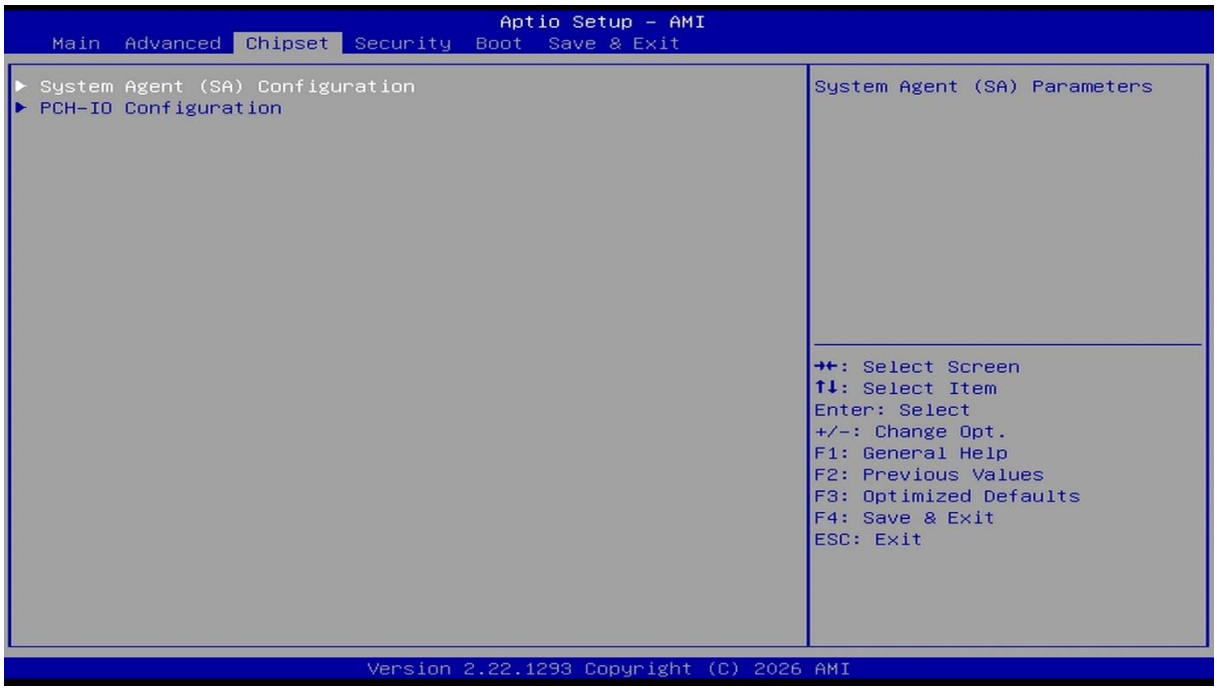
USB Power Gating S4-S5 Set the default value to: [Enabled]

PCIE Wake-up from S4-S5

The optional settings: [Disabled]; [Enabled].

PCIE Wake-up from S4-S5 Set the default value to: [Disabled]

3-8 Chipset Menu



System Agent (SA) Configuration

Press [Enter] to make settings for the following sub-items:

System Agent (SA) Configuration

GTT Size

Select the GTT Size Selections in MB.

The optional settings: [2MB]; [4MB] ; [8MB]

GTT Size Set the default value to: [8MB]

DVMT Pre-Allocated

Use this item to Select DVMT 5.0 Pre-Allocated(Fixed) Graphics Memory size used ny the Internal Graphics Device.

Select DVMT 5.0 Pre-Allocated Selections in MB.

The optional settings: [32MB]; [64MB] ; [96MB] ; [128MB] ; [160MB]

DVMT 5.0 Pre-Allocated Set the default value to: [128MB]

Active LFP

Use this item to select the Active LFP Configuration.

The optional settings: [Disabled]; [Enabled].

Active LFP Set the default value to: [Disabled]

When set as [Enabled], the following sub-item shall appear:

Panel Type

The optional settings are: [800x480 1ch 18-bit]; [800x600 1ch 18-bit]; [800x600 1ch 24-bit]; [1024x600 1ch 18-bit]; [1024x768 1ch 18-bit]; [1024x768 1ch 24-bit]; [1280x800 1ch 18-bit]; [1280x800 1ch 24-bit]; [1366x768 1ch 18-bit]; [1366x768 1ch 24-bit]; [1440x900 2ch 18-bit]; [1440x900 2ch 24-bit]; [1280x1024 2ch 24-bit]; [1680x1050 2ch 24-bit]; [1920x1080 2ch 24-bit]; [eDP].

Panel Type Set the default value to: [eDP]

Backlight Control

Use this item to make back light control setting.

The optional settings are: [PWM Inverted]; [PWM Normal].

Backlight Control Set the default value to: [PWM Normal]

PCH-IO Configuration

Press [Enter] to make settings for the following sub-items:

PCH-IO Configuration

SATA Configuration

SATA Device Options Settings.

SATA Configuration

SATA Controller(s)

Use this item to enable/disable SATA Device.

The optional settings are: [Enabled]; [Disabled].

SATA Controller(s) Set the default value to: [Enabled]

When set as [Enabled], the following sub-items shall appear:

M.2

Port

Use this item to enable or disable SATA Port.

The optional settings are: [Disabled]; [Enabled].

Port Set the default value to: [Enabled]

HD Audio

Use this item to control detection of the HD-Audio device.

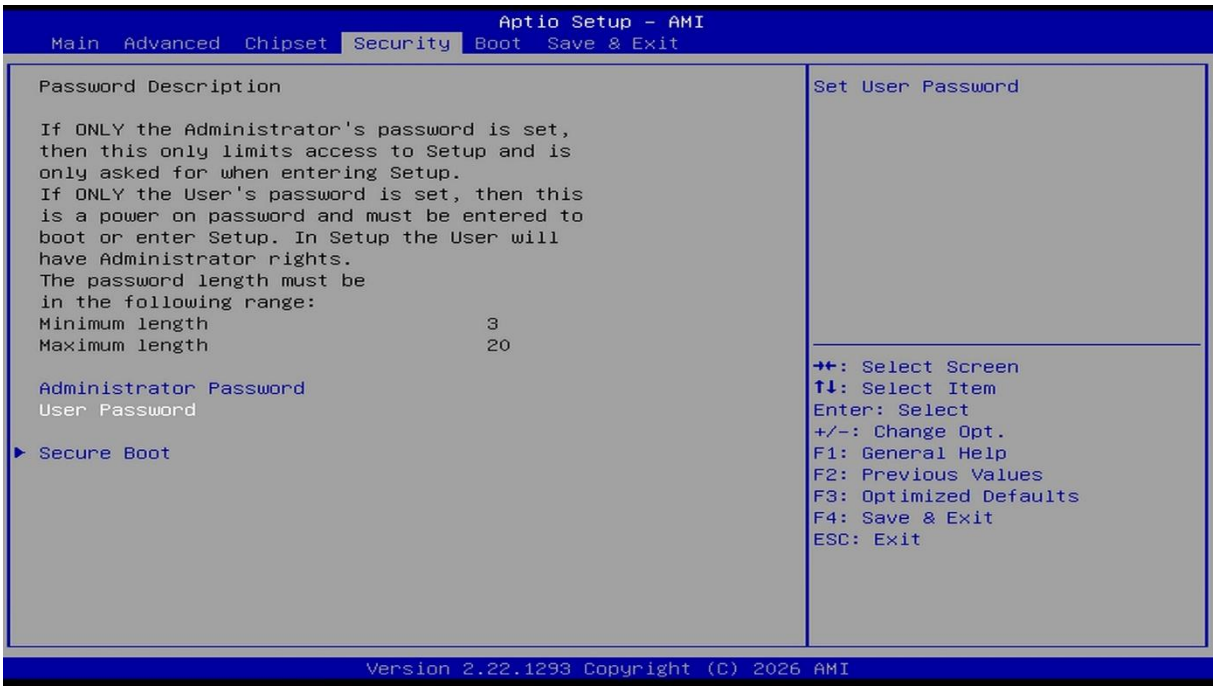
Disabled= HDA will be unconditionally disabled.

Enabled= HDA will be unconditionally enabled.

The optional settings: [Disabled]; [Enabled].

HD Audio Set the default value to: [Enabled]

3-9 Security Menu



Security menu allow users to change administrator password and user password settings.

Administrator Password

If there is no password present on system, please press [Enter] to create new administrator password. If password is present on system, please press [Enter] to verify old password then to clear/change password. Press again to confirm the new administrator password.

User Password

If there is no password present on system, please press [Enter] to create new administrator password. If password is present on system, please press [Enter] to verify old password then to clear/change password. Press again to confirm the new administrator password.

Secure Boot

Press [Enter] to make customized secure settings:

System Mode

Secure Boot

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

The optional settings: [Disabled]; [Enabled].

Secure Boot Set the default value to: [Enabled]

Secure Boot Mode

Set UEFI Secure Boot Mode to Standard mode or Custom mode. This change is effective after save. After reset, this mode will return to Standard mode.

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

The optional settings: [Standard]; [Custom].

Secure Boot Mode Set the default value to: [Standard]

When set as [Custom], user can make further settings in the following items that show up:

Restore Factory Keys

Use this item to force system to User Mode, to install factory default Secure Boot key databases.

Reset To Setup Mode

Use this item to Delete all secure boot key databases from NVRAM.

Key Management

This item enables expert users to modify Secure Boot Policy variables without full authentication, which includes the following items:

Vendor Keys

Factory Key Provision

This item is for user to install factory default Secure Boot keys after the platform reset and while the System is in Setup mode.

The optional settings: [Disabled]; [Enabled].

Factory Key Provision Set the default value to: [Disabled]

Restore Factory Keys

Use this item to force system into User Mode. Install factory default Secure Boot key databases.

Reset To Setup Mode

Use this item to Delete all Secure Boot key databases from NVRAM.

Enroll Efi Image

This item allows the image to run in Secure Boot mode.

Enroll SHA256 Hash certificate of a PE image into Authorized Signature Database (db).

Export Secure Boot variables

Use this item to save NVRAM content of Secure Boot variables to a file.

Export Secure Boot variables

Platform Key(PK)

Key Exchange Keys(KEK)

Signatures(db)

Forbidden Signatures(dbx)

Authorized TimeStamps(dbt)

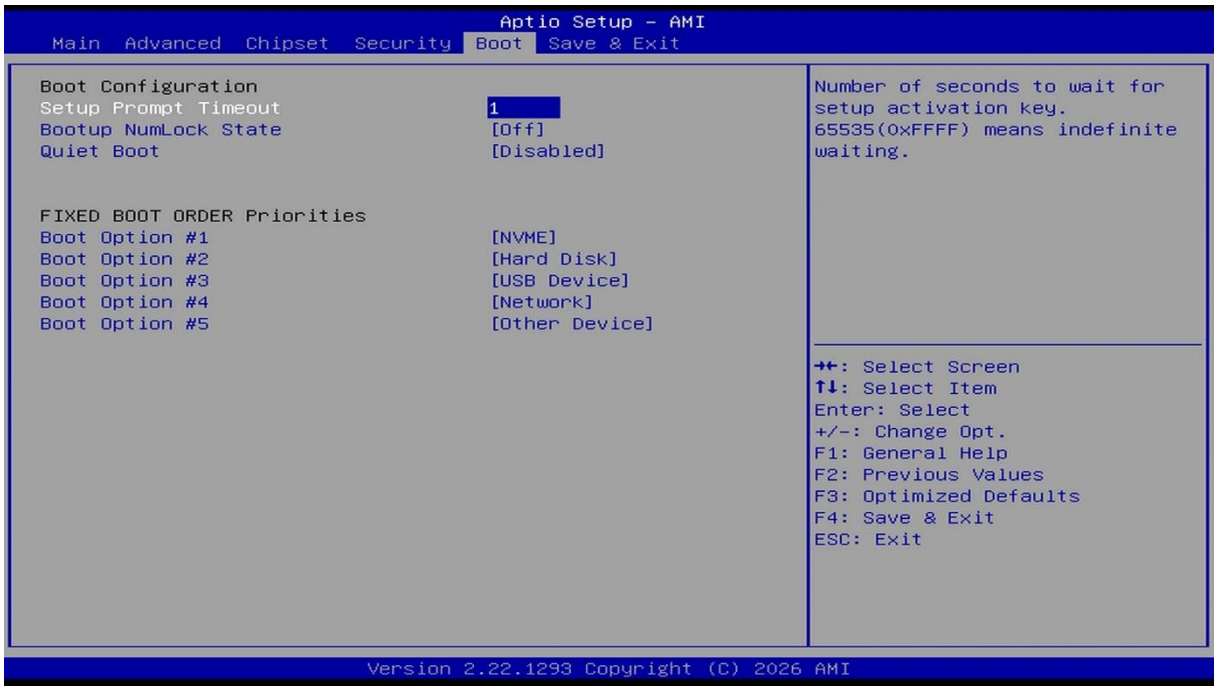
OsRecovery Signatures(dbr)

Use this item to enroll Factory Defaults or load certificates from a file:

1. Public Key Certificate:
   a) EFI_SIGNATURE_LIST
   b) EFI_ CERT_X509 (DER)
   c) EFI_ CERT_RSA2048 (bin)
   d) EFI_ CERT_SHAXXX
2. Authenticated UEFI Variable
3. EFI PE/COFF Image (SHA256)

Key Source: Factory, Modified, Mixed

3-10 Boot Menu



Boot Configuration

Setup Prompt Timeout

Use this item to set number of seconds to wait for setup activation key. 65535 (0xFFFF) means indefinite waiting.

Setup Prompt Timeout Set the default value to: [1]

Bootup NumLock State

Use this item to select keyboard NumLock state.

The optional settings: [On]; [Off].

Bootup NumLock State Set the default value to: [Off]

Quiet Boot

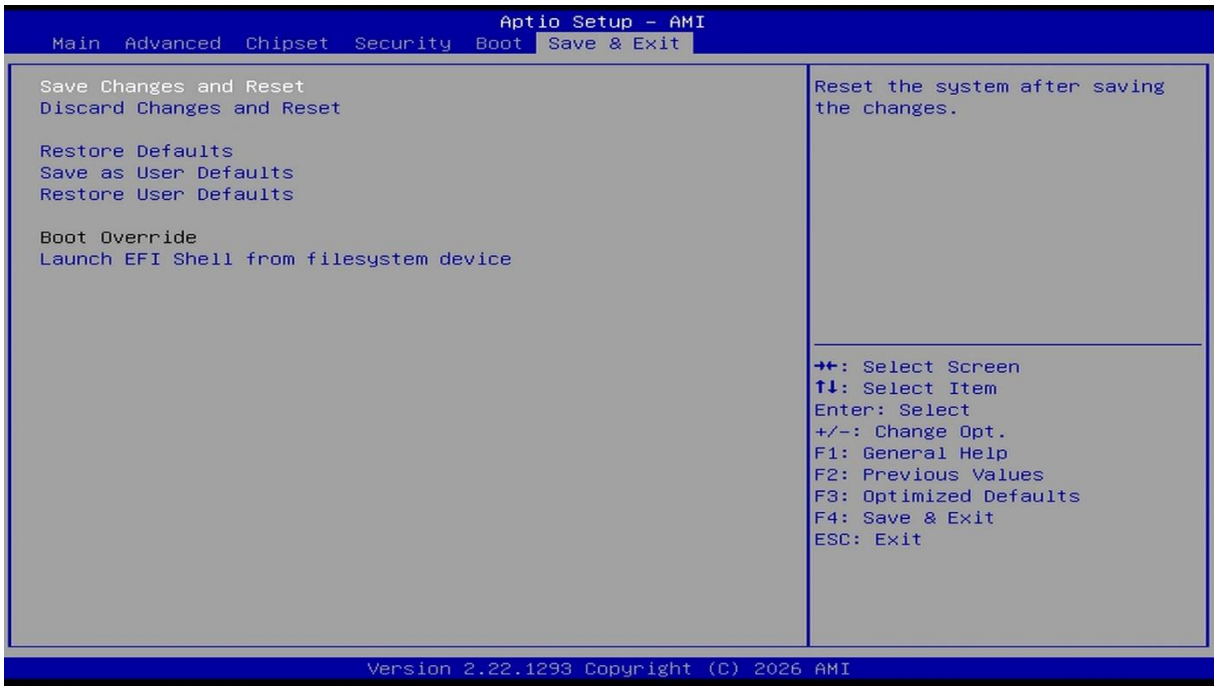
The optional settings: [Disabled]; [Enabled].

Quiet Boot Set the default value to: [Disabled]

Boot Option Priorities

Boot Option #1~#5 This item allows you to set the system boot order. Configuration options: [NVME]; [Hard Disk]; [USB Device]; [Network] ; [Other Device:UEFI:Built-in EFI-Shell]

3-11 Save & Exit Menu



Save Changes and Reset
This item allows user to reset the system after saving the changes.
Discard Changes and Reset
This item allows user to reset the system setup without saving any changes.
Restore Defaults
Use this item to restore /load default values for all the setup options.
Save as User Defaults
Use this item to save the changes done so far as user defaults.
Restore User Defaults
Use this item to restore the user defaults to all the setup options.
Boot Override

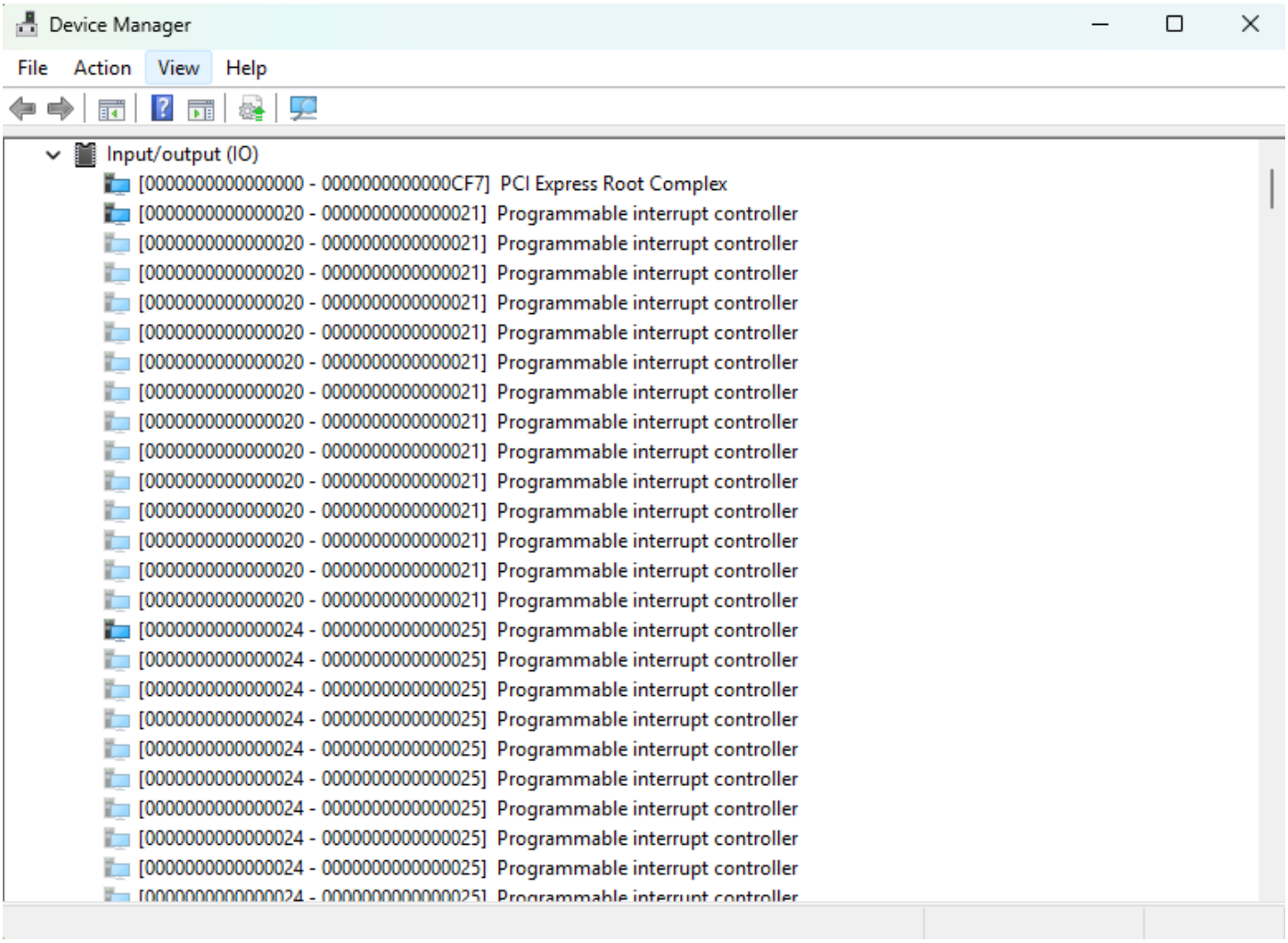
Appendix A

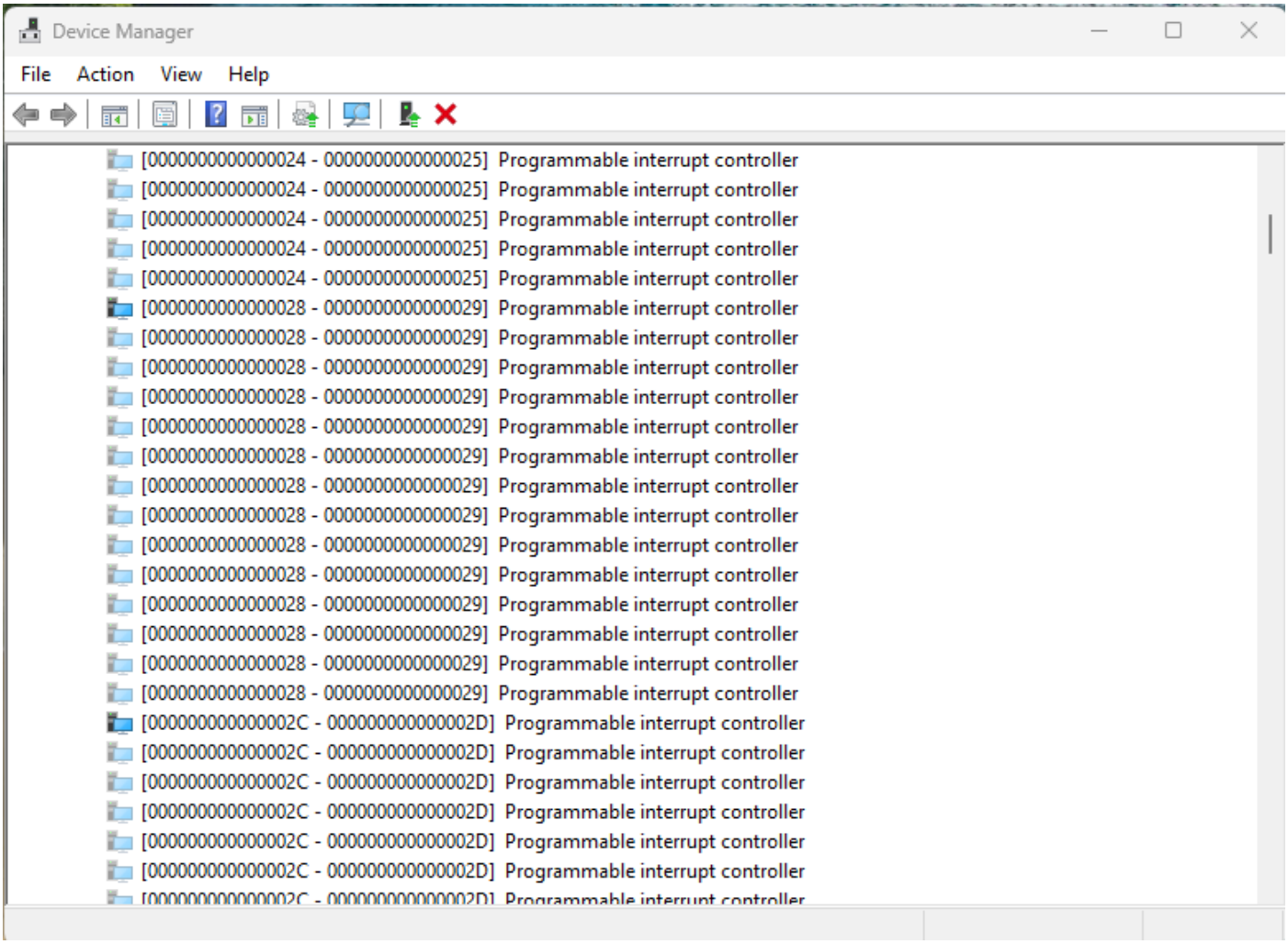
Mating Connectors

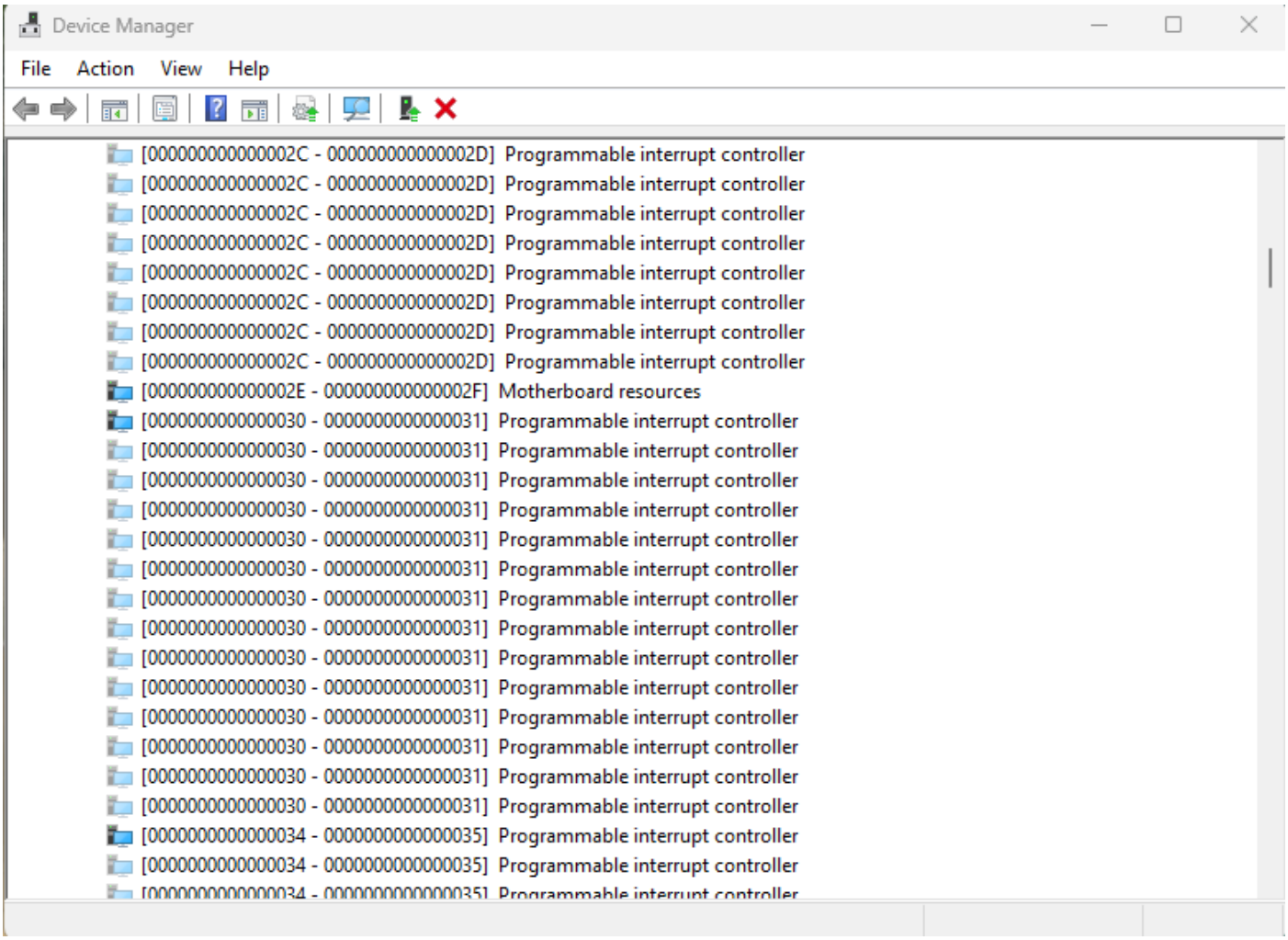
Location Printing	Function	Vendor	Vendor P/N
INVERTER1	LVDS Inverter Connector	Topt	WF2-1108-K-S6R-B0
LVDS_EDP1	LVDS Port Header	Topt	WF7-12XX-T9N-G1-CR
F_AUDIO1	Front Panel Audio Header	Tops	PH200-205M-GBB0008D
CPUFAN1	CPU FAN Header	Tops	WF254-104S-TEW0004A
GPIO1	GPIO/80 Port Header	Tops	PH200-205M-GBB0002D
COM1	COM1 Port Header	Tops	PH200-205M-GBB00010D
COM2	COM2 Port Header	Tops	PH200-205M-GBB00010D
F_USB1	USB 2.0 Port Header	Tops	PH200-205M-GBB0009D
F_USB2	USB 2.0 Port Header	Tops	PH200-205M-GBB0009D
JW_FP1	Front Panel Function Header	Tops	PH254-104S-GBB0002A
SATA1	SATA3 Port Connector	Win Win	WAT3M-07A1G1BU4W
SATAPW1	SATA HDD Power-Out Connector	Tops	WF254-104S-TWE0004A
I2C_SMBUS1	SMBUS Header	Tops	PH200-A105-SGCB-RN
DCIN2	DC-In Power Header	TE	1-1123723
F_BUZZ1	BUZZ Header	Tops	PH200-102S-GBB0001A
BATCON1	Battery Header	Tops	WF125-102M-TFT0004D

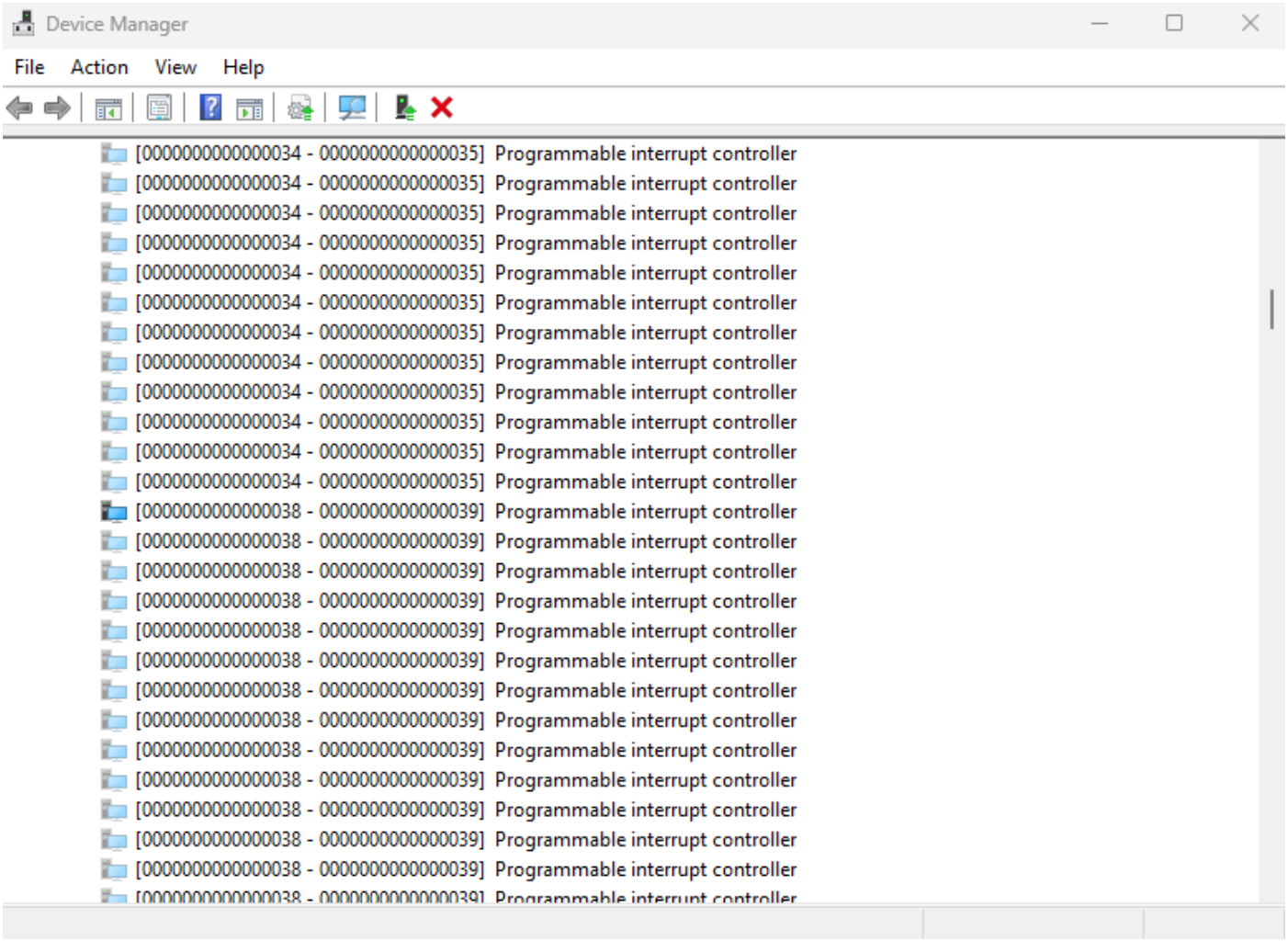
Appendix B

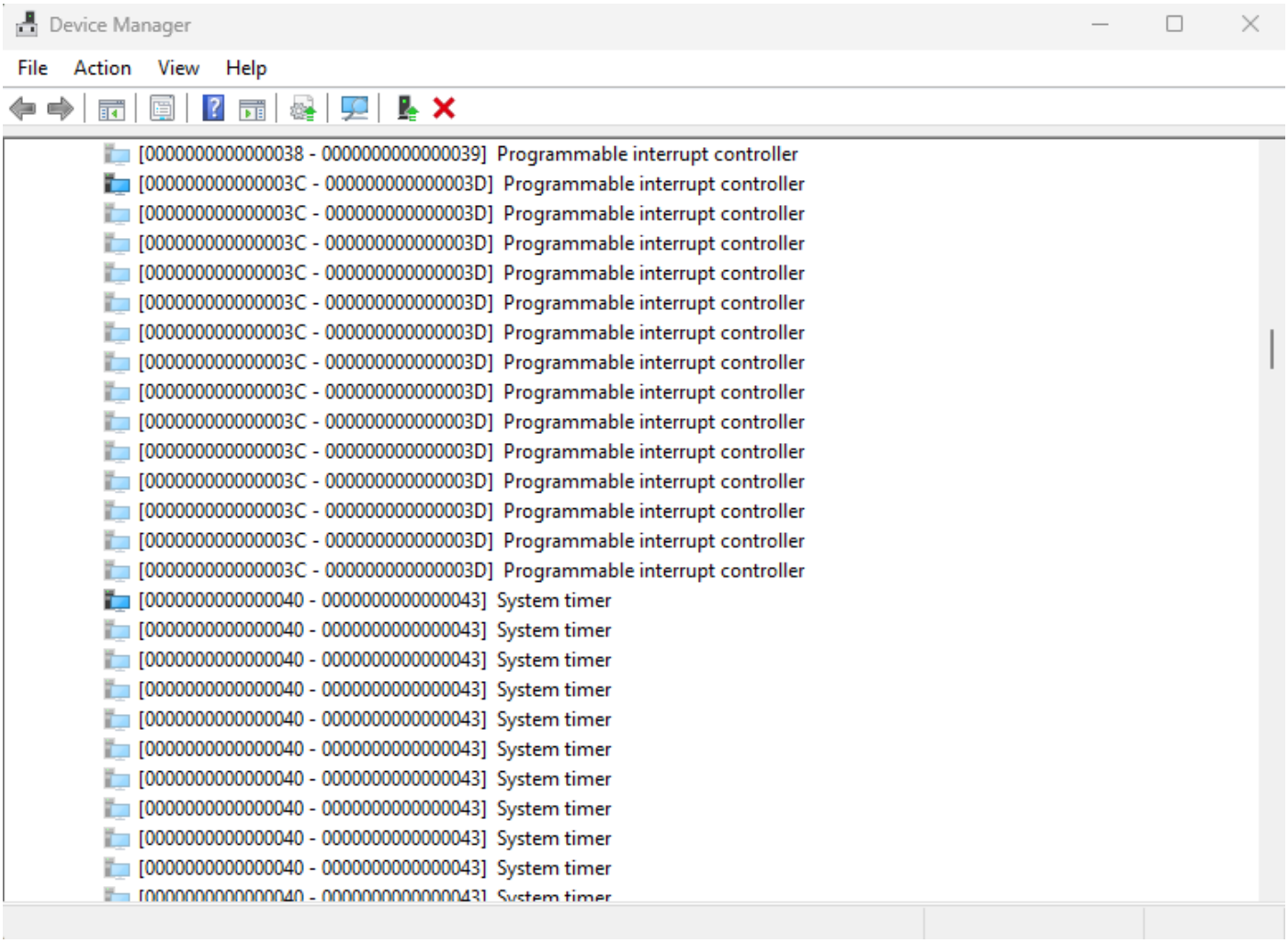
I/O Address Map

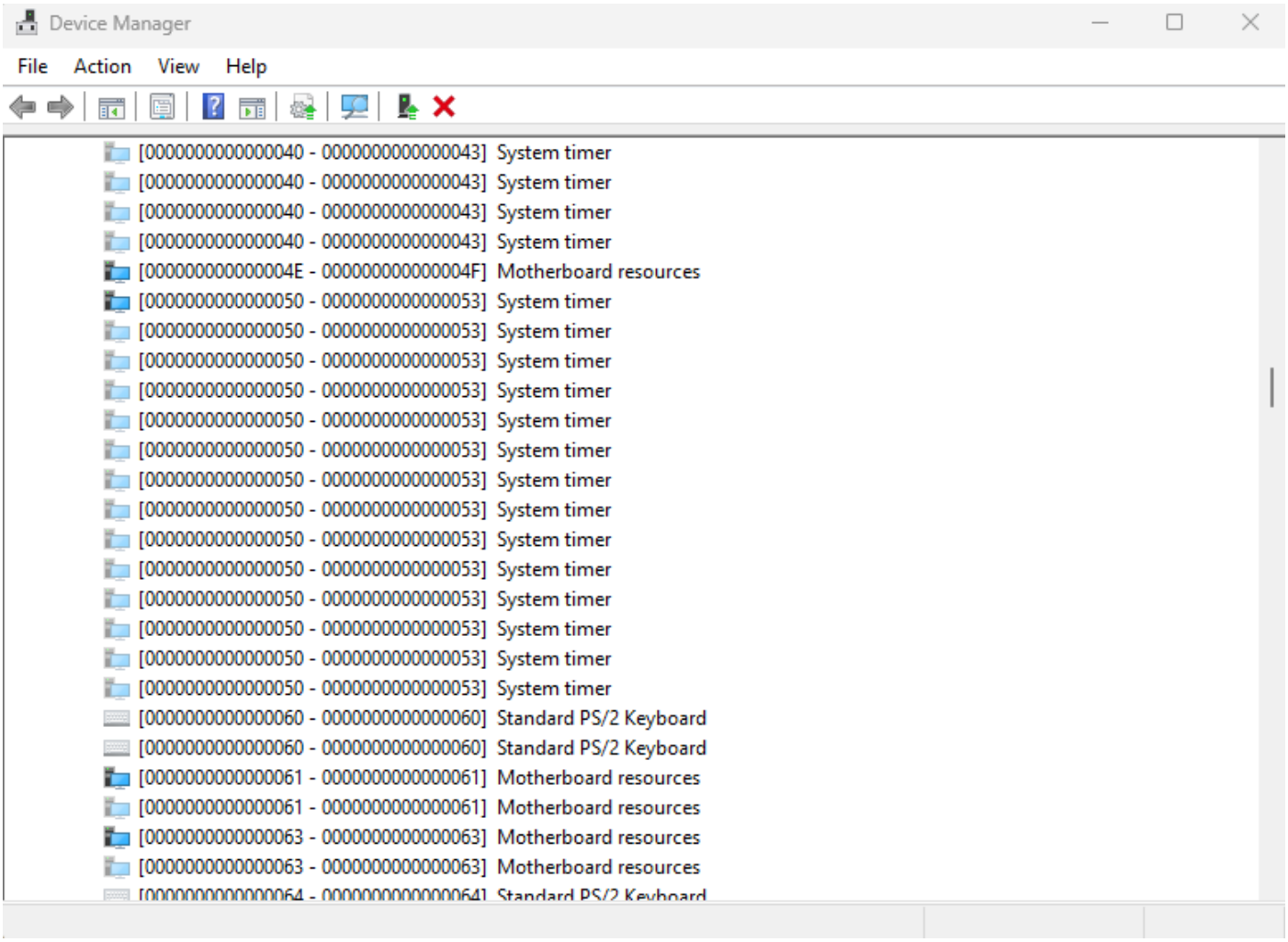


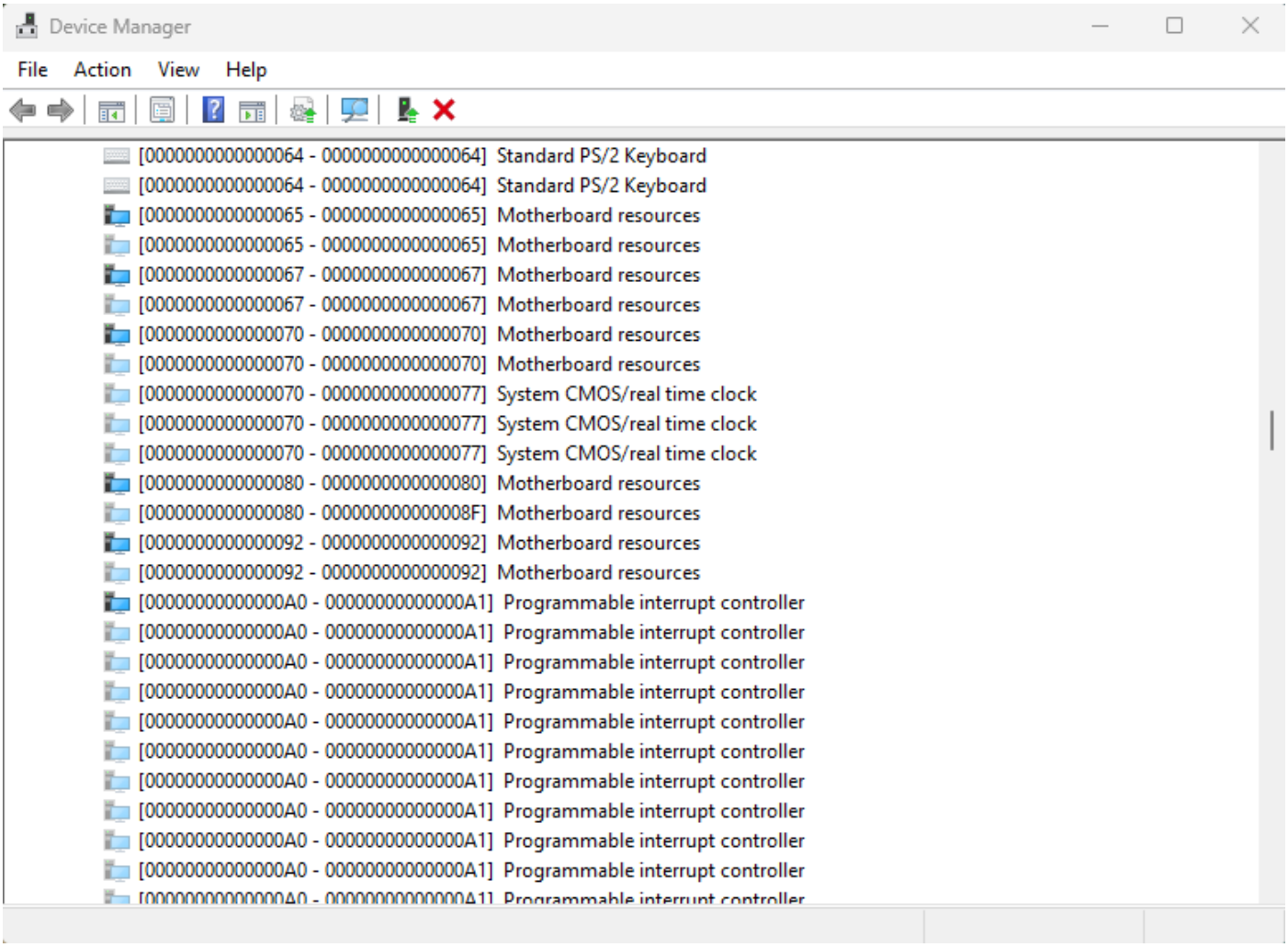

Device Manager
File
Action
View
Help
[0000000000000024 - 0000000000000025] Programmable interrupt controller
[0000000000000024 - 0000000000000025] Programmable interrupt controller
[0000000000000024 - 0000000000000025] Programmable interrupt controller
[0000000000000024 - 0000000000000025] Programmable interrupt controller
[0000000000000024 - 0000000000000025] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[0000000000000028 - 0000000000000029] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller

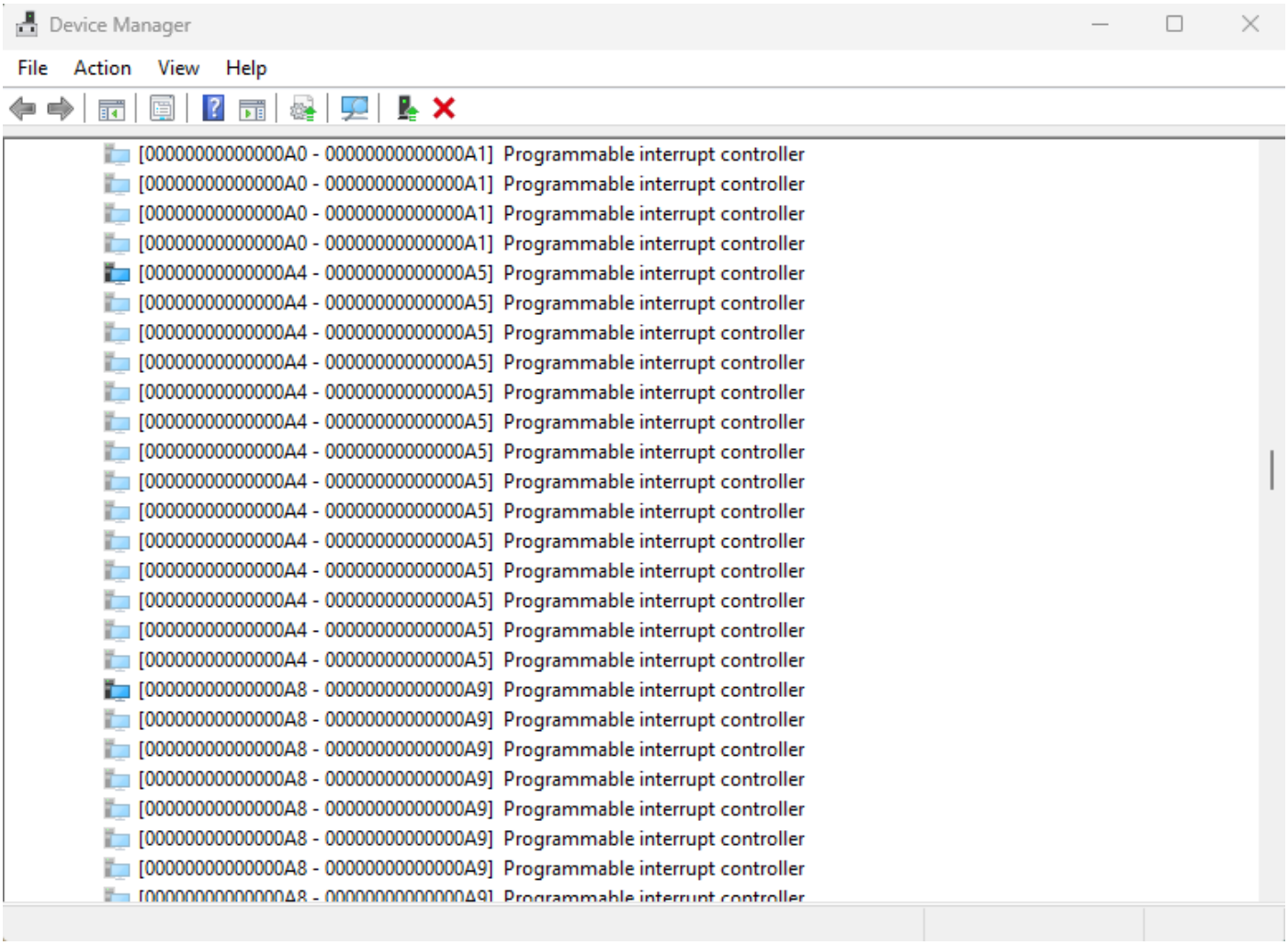

Device Manager
File
Action
View
Help
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002C - 000000000000002D] Programmable interrupt controller
[000000000000002E - 000000000000002F] Motherboard resources
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000030 - 0000000000000031] Programmable interrupt controller
[0000000000000034 - 0000000000000035] Programmable interrupt controller
[0000000000000034 - 0000000000000035] Programmable interrupt controller

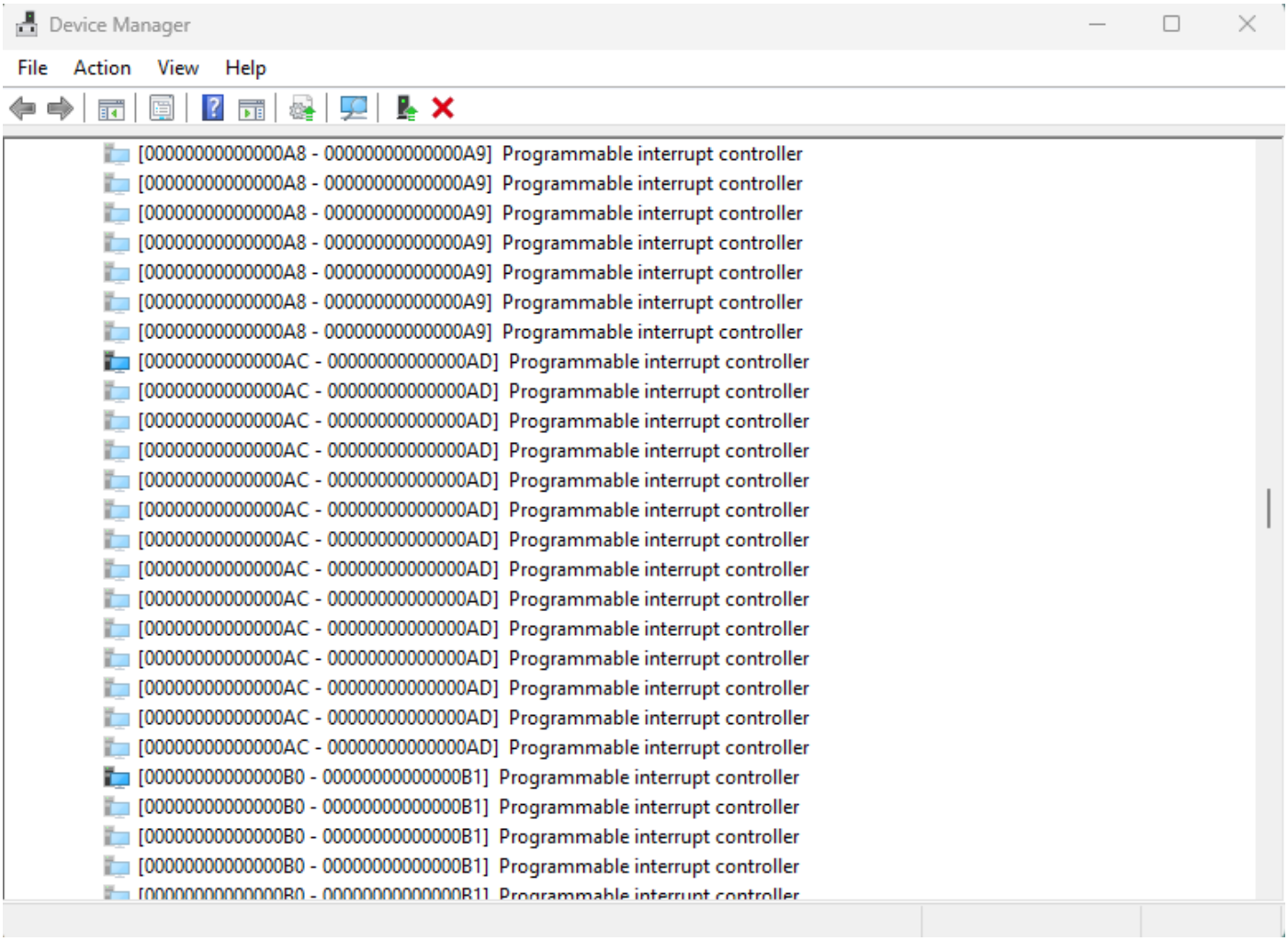

Device Manager
File
Action
View
Help
[0000000000000034 - 0000000000000035] Programmable interrupt controller
[0000000000000038 - 0000000000000039] Programmable interrupt controller

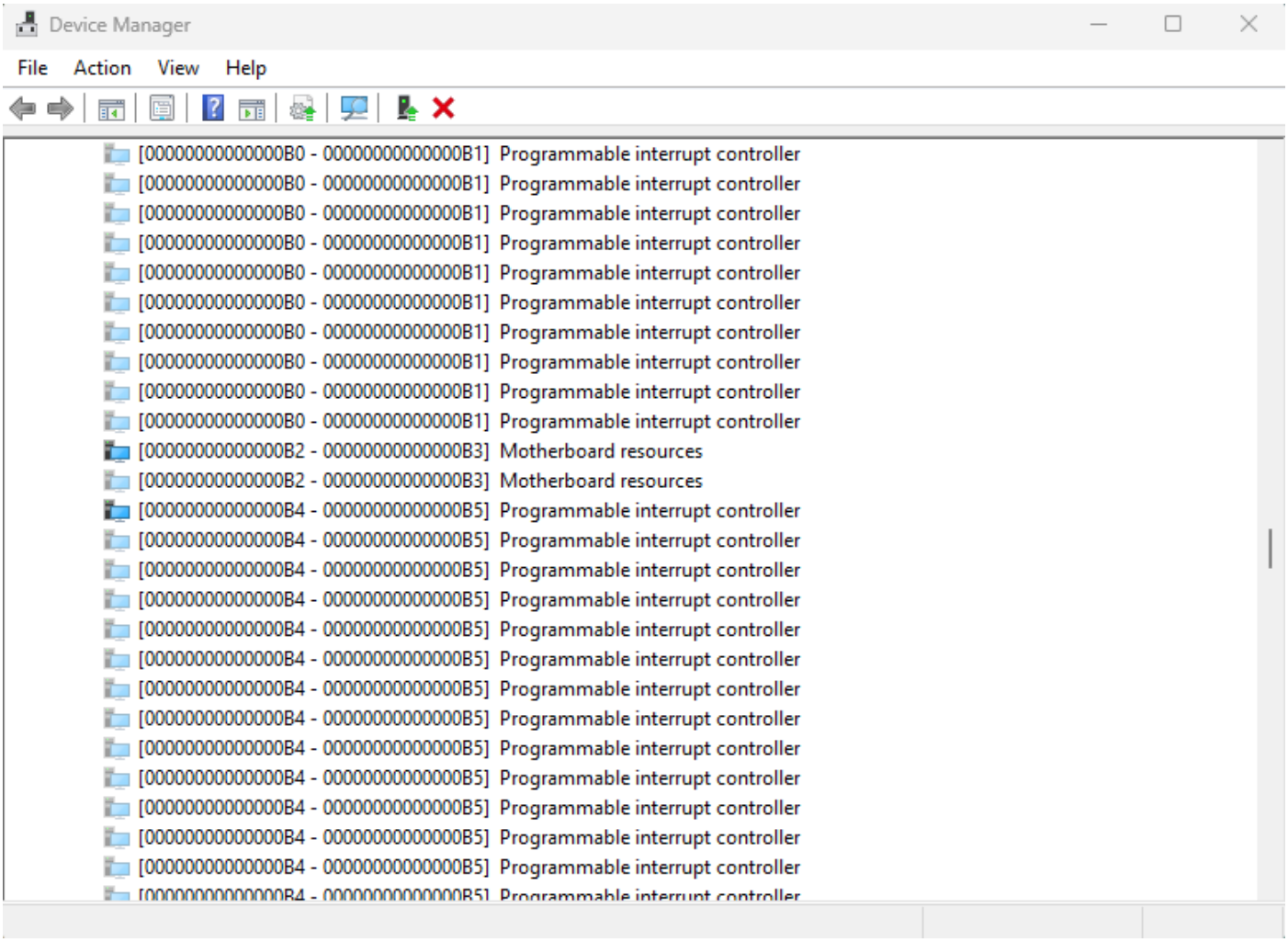

Device Manager
File
Action
View
Help
[0000000000000038 - 0000000000000039] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[000000000000003C - 000000000000003D] Programmable interrupt controller
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer

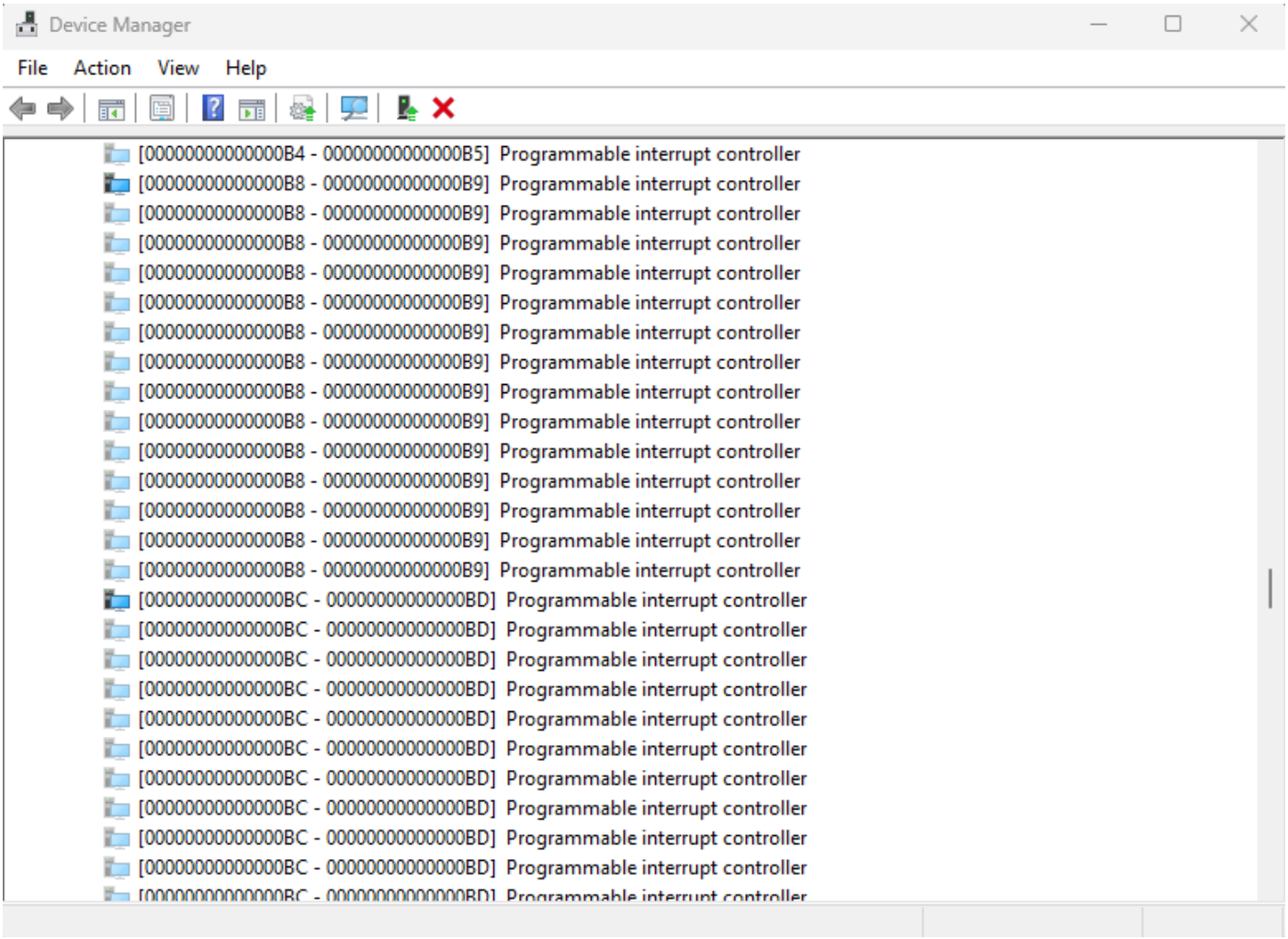

Device Manager
File
Action
View
Help
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[0000000000000040 - 0000000000000043] System timer
[000000000000004E - 000000000000004F] Motherboard resources
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000050 - 0000000000000053] System timer
[0000000000000060 - 0000000000000060] Standard PS/2 Keyboard
[0000000000000060 - 0000000000000060] Standard PS/2 Keyboard
[0000000000000061 - 0000000000000061] Motherboard resources
[0000000000000061 - 0000000000000061] Motherboard resources
[0000000000000063 - 0000000000000063] Motherboard resources
[0000000000000063 - 0000000000000063] Motherboard resources

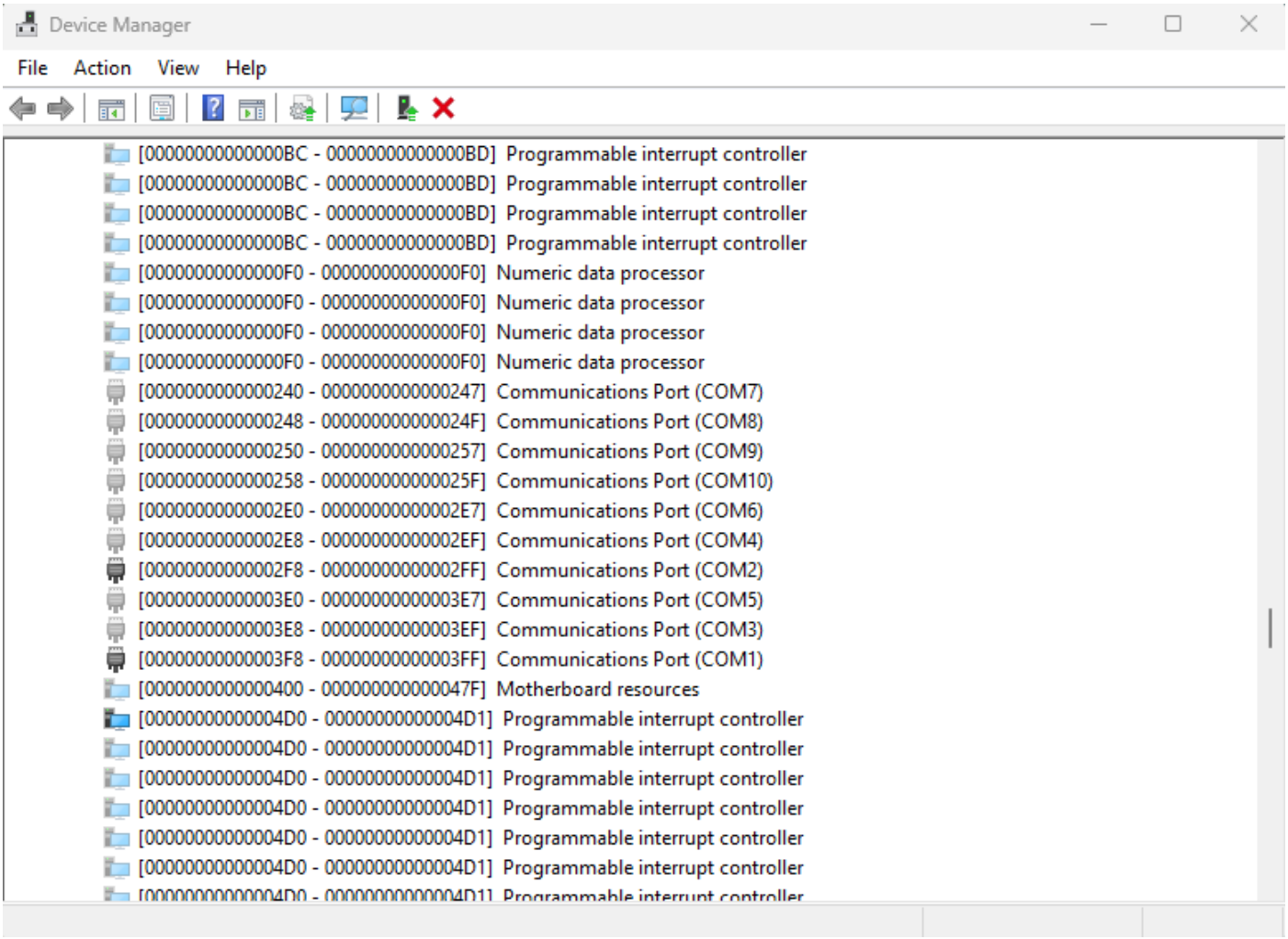

Device Manager
File
Action
View
Help
[0000000000000064 - 0000000000000064] Standard PS/2 Keyboard
[0000000000000064 - 0000000000000064] Standard PS/2 Keyboard
[0000000000000065 - 0000000000000065] Motherboard resources
[0000000000000065 - 0000000000000065] Motherboard resources
[0000000000000067 - 0000000000000067] Motherboard resources
[0000000000000067 - 0000000000000067] Motherboard resources
[0000000000000070 - 0000000000000070] Motherboard resources
[0000000000000070 - 0000000000000070] Motherboard resources
[0000000000000070 - 0000000000000077] System CMOS/real time clock
[0000000000000070 - 0000000000000077] System CMOS/real time clock
[0000000000000070 - 0000000000000077] System CMOS/real time clock
[0000000000000080 - 0000000000000080] Motherboard resources
[0000000000000080 - 000000000000008F] Motherboard resources
[0000000000000092 - 0000000000000092] Motherboard resources
[0000000000000092 - 0000000000000092] Motherboard resources
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller

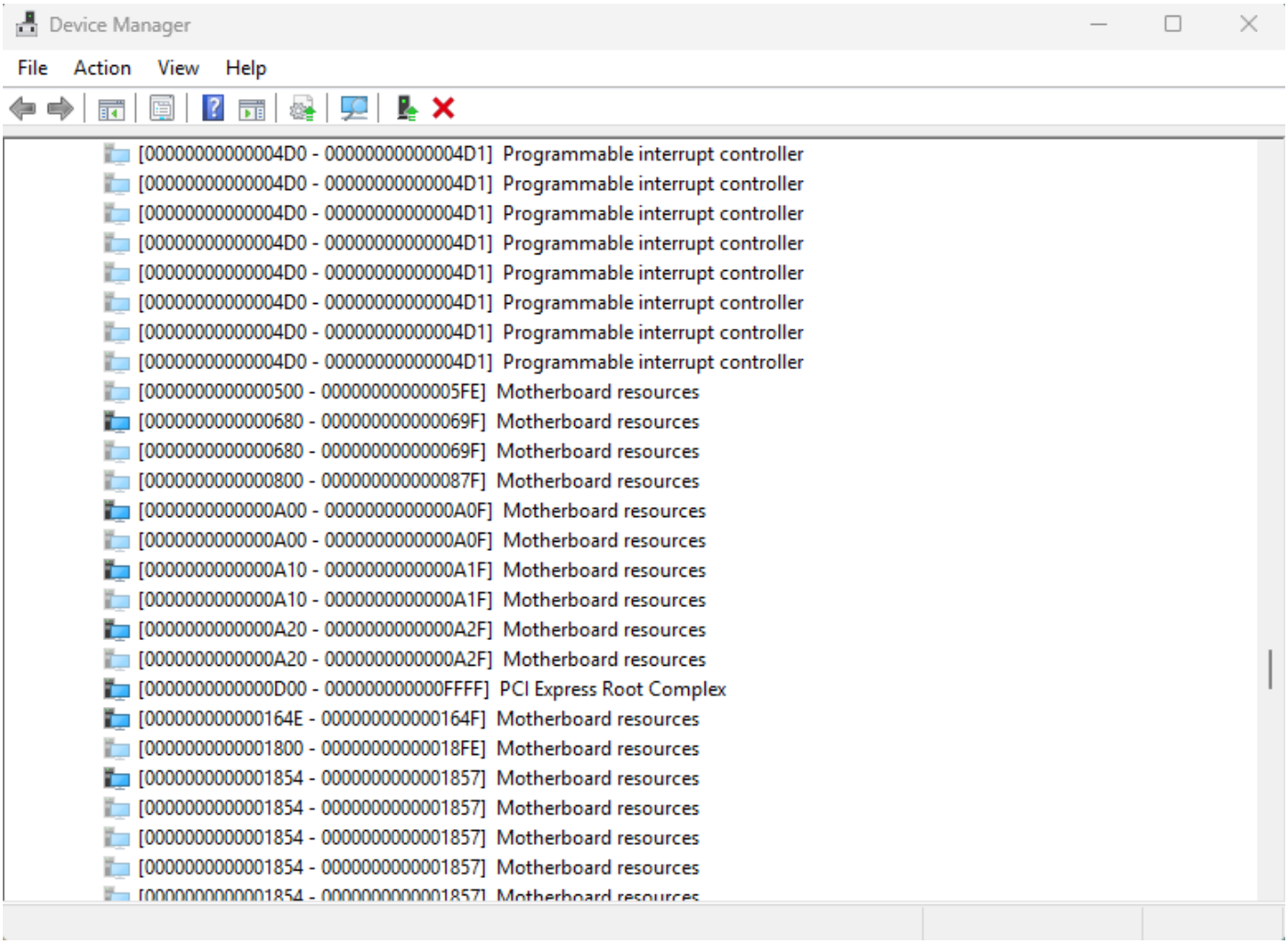

Device Manager
File
Action
View
Help
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A0 - 00000000000000A1] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A4 - 00000000000000A5] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller

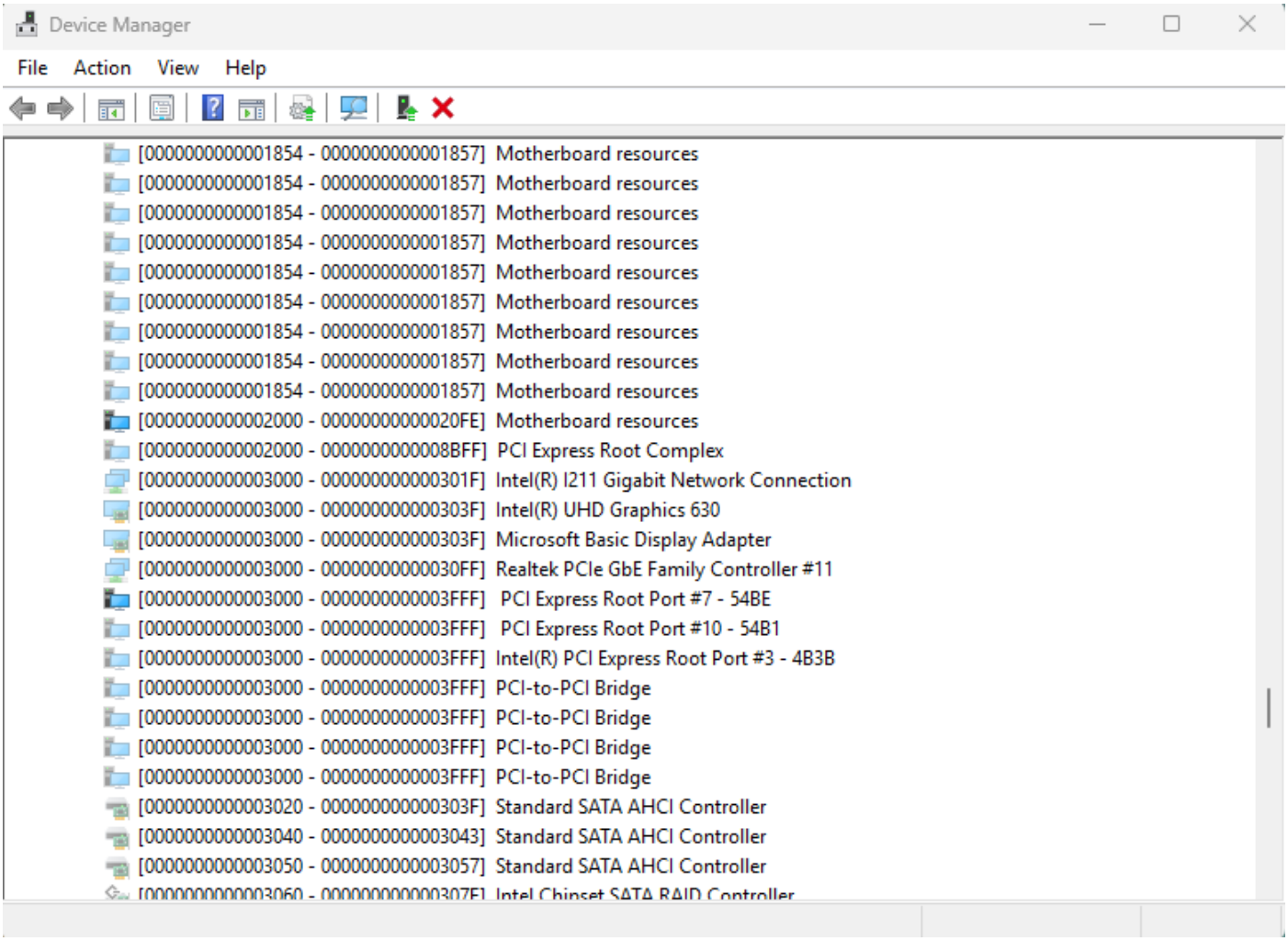

Device Manager
File
Action
View
Help
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000A8 - 00000000000000A9] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000AC - 00000000000000AD] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller

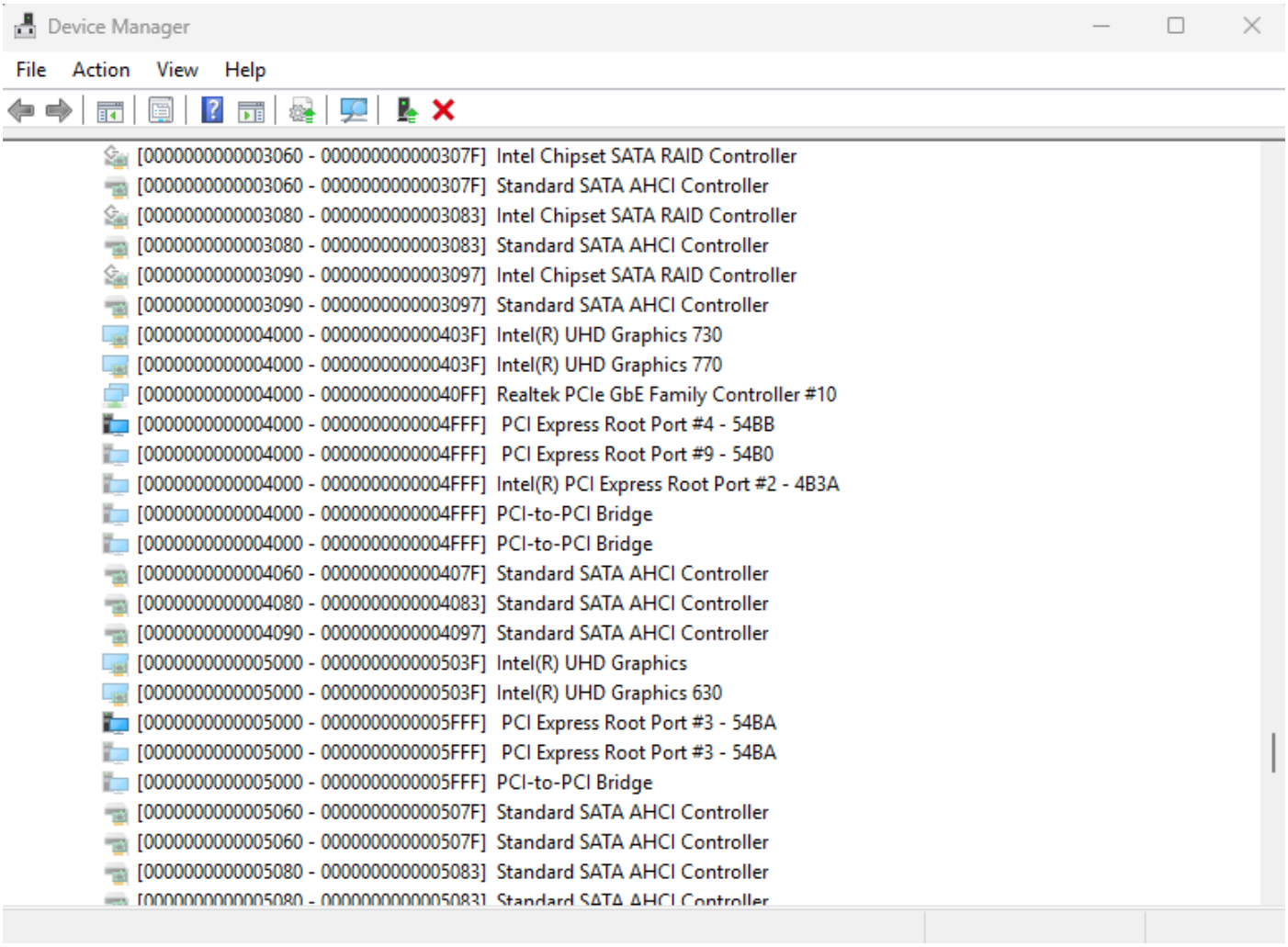

Device Manager
File
Action
View
Help
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B0 - 00000000000000B1] Programmable interrupt controller
[00000000000000B2 - 00000000000000B3] Motherboard resources
[00000000000000B2 - 00000000000000B3] Motherboard resources
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller

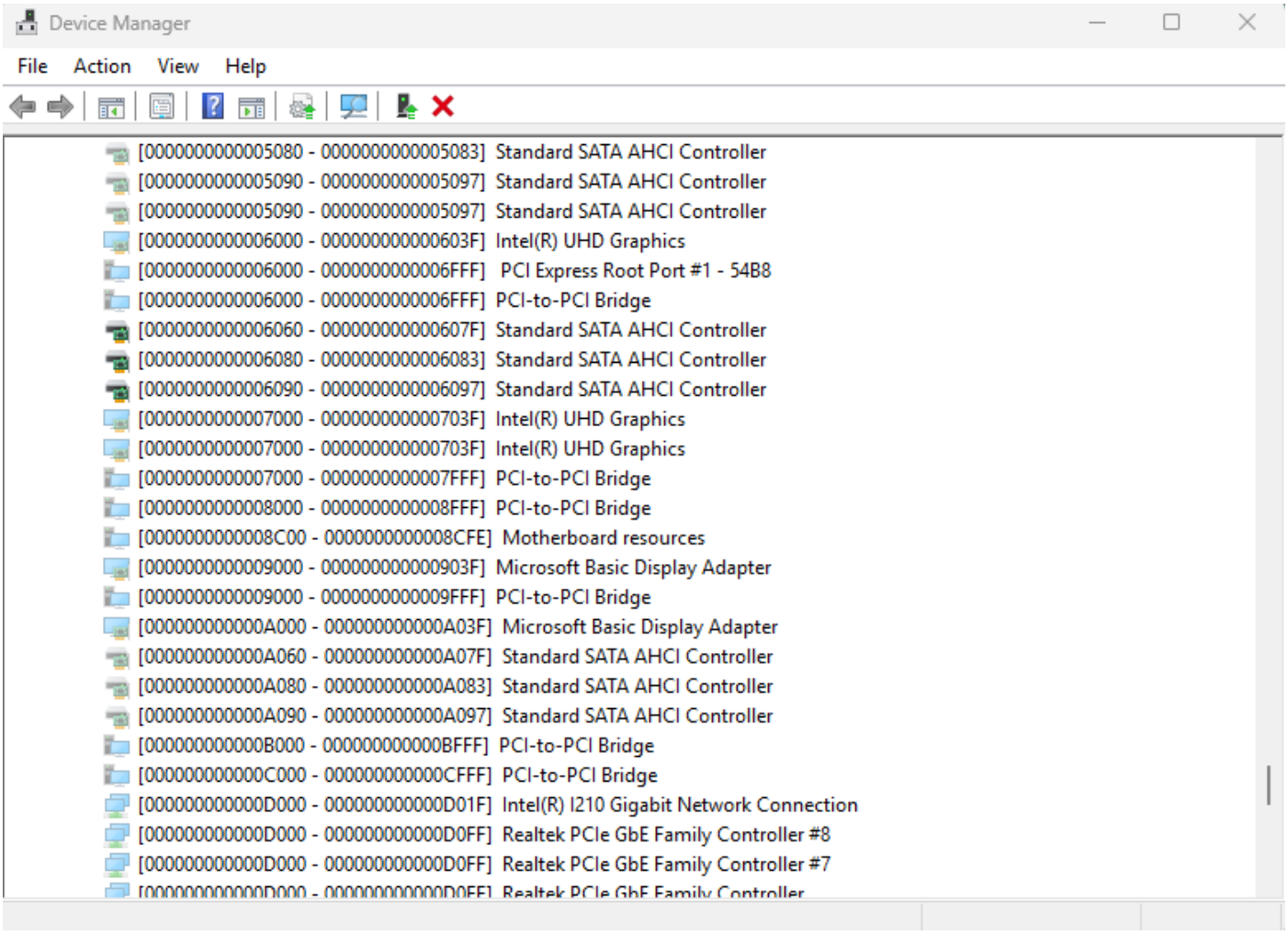

Device Manager
File
Action
View
Help
[00000000000000B4 - 00000000000000B5] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000B8 - 00000000000000B9] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller

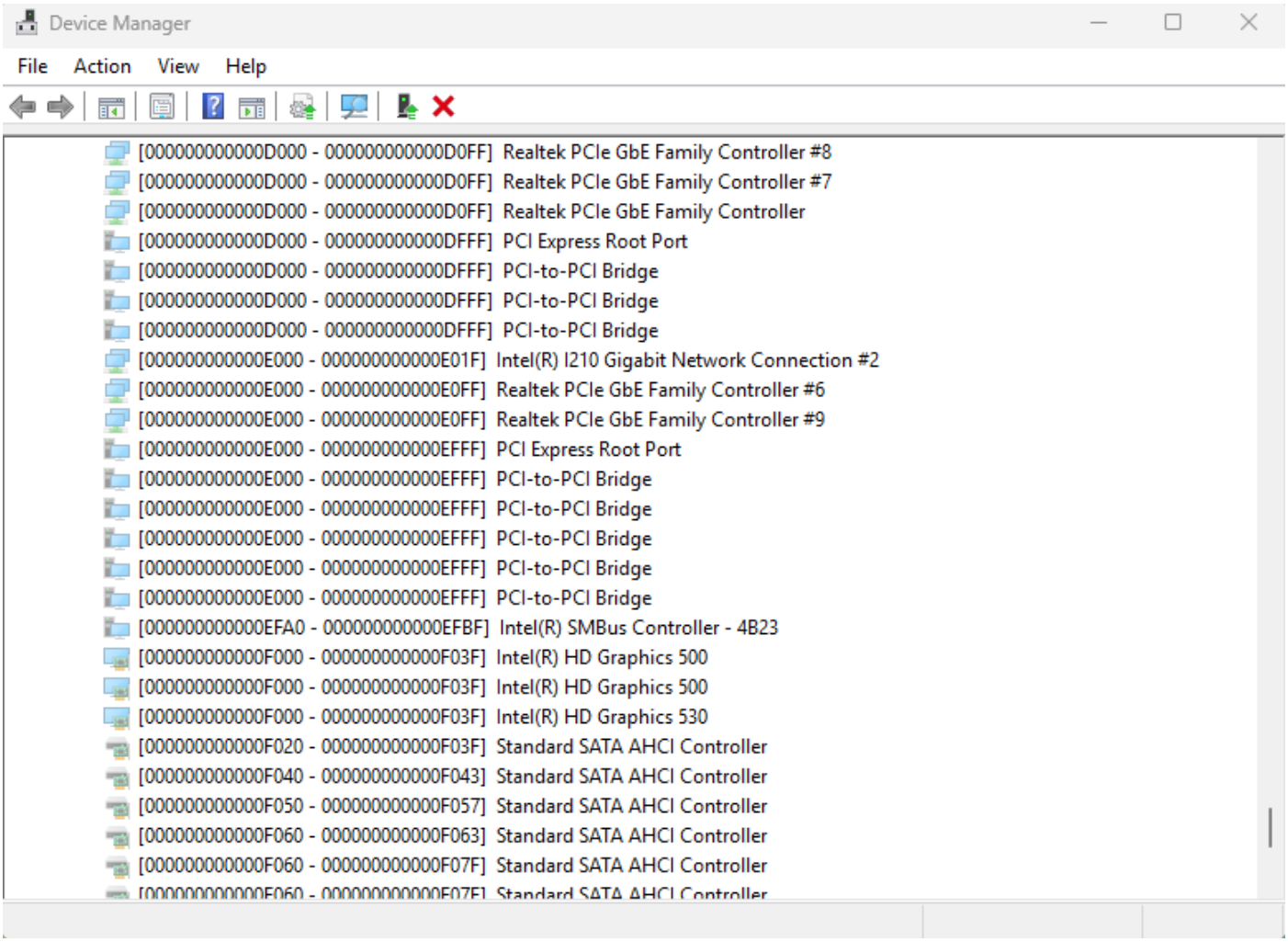

Device Manager
File
Action
View
Help
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000BC - 00000000000000BD] Programmable interrupt controller
[00000000000000F0 - 00000000000000F0] Numeric data processor
[00000000000000F0 - 00000000000000F0] Numeric data processor
[00000000000000F0 - 00000000000000F0] Numeric data processor
[00000000000000F0 - 00000000000000F0] Numeric data processor
[0000000000000240 - 0000000000000247] Communications Port (COM7)
[0000000000000248 - 000000000000024F] Communications Port (COM8)
[0000000000000250 - 0000000000000257] Communications Port (COM9)
[0000000000000258 - 000000000000025F] Communications Port (COM10)
[00000000000002E0 - 00000000000002E7] Communications Port (COM6)
[00000000000002E8 - 00000000000002EF] Communications Port (COM4)
[00000000000002F8 - 00000000000002FF] Communications Port (COM2)
[00000000000003E0 - 00000000000003E7] Communications Port (COM5)
[00000000000003E8 - 00000000000003EF] Communications Port (COM3)
[00000000000003F8 - 00000000000003FF] Communications Port (COM1)
[0000000000000400 - 000000000000047F] Motherboard resources
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller

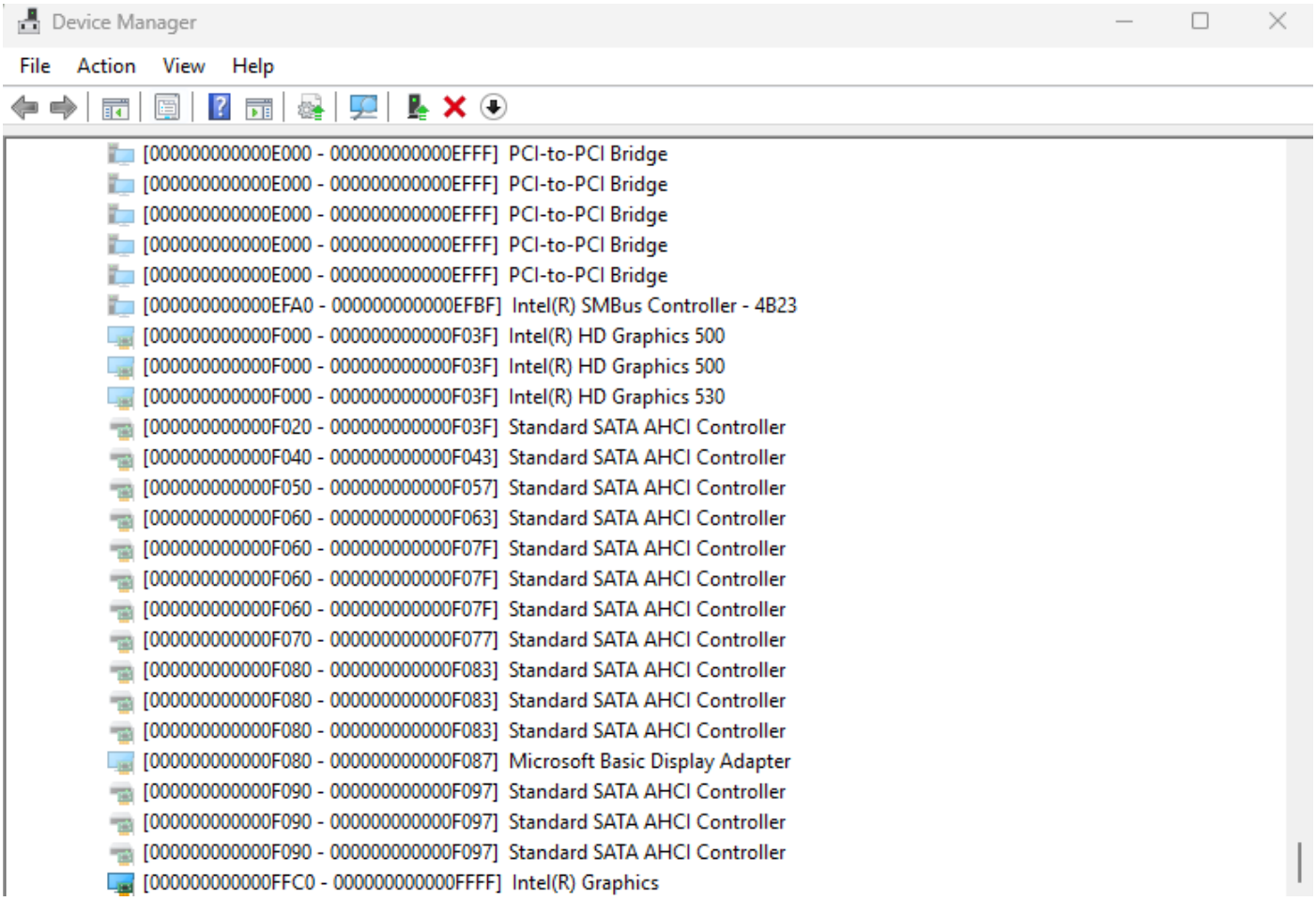

Device Manager
File
Action
View
Help
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[00000000000004D0 - 00000000000004D1] Programmable interrupt controller
[0000000000000500 - 00000000000005FE] Motherboard resources
[0000000000000680 - 000000000000069F] Motherboard resources
[0000000000000680 - 000000000000069F] Motherboard resources
[0000000000000800 - 000000000000087F] Motherboard resources
[0000000000000A00 - 0000000000000A0F] Motherboard resources
[0000000000000A00 - 0000000000000A0F] Motherboard resources
[0000000000000A10 - 0000000000000A1F] Motherboard resources
[0000000000000A10 - 0000000000000A1F] Motherboard resources
[0000000000000A20 - 0000000000000A2F] Motherboard resources
[0000000000000A20 - 0000000000000A2F] Motherboard resources
[0000000000000D00 - 000000000000FFFF] PCI Express Root Complex
[000000000000164E - 000000000000164F] Motherboard resources
[0000000000001800 - 00000000000018FE] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources


Device Manager
File
Action
View
Help
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000001854 - 0000000000001857] Motherboard resources
[0000000000002000 - 00000000000020FE] Motherboard resources
[0000000000002000 - 0000000000008BFF] PCI Express Root Complex
[0000000000003000 - 000000000000301F] Intel(R) I211 Gigabit Network Connection
[0000000000003000 - 000000000000303F] Intel(R) UHD Graphics 630
[0000000000003000 - 000000000000303F] Microsoft Basic Display Adapter
[0000000000003000 - 00000000000030FF] Realtek PCIe GbE Family Controller #11
[0000000000003000 - 0000000000003FFF] PCI Express Root Port #7 - 54BE
[0000000000003000 - 0000000000003FFF] PCI Express Root Port #10 - 54B1
[0000000000003000 - 0000000000003FFF] Intel(R) PCI Express Root Port #3 - 4B3B
[0000000000003000 - 0000000000003FFF] PCI-to-PCI Bridge
[0000000000003000 - 0000000000003FFF] PCI-to-PCI Bridge
[0000000000003000 - 0000000000003FFF] PCI-to-PCI Bridge
[0000000000003000 - 0000000000003FFF] PCI-to-PCI Bridge
[0000000000003020 - 000000000000303F] Standard SATA AHCI Controller
[0000000000003040 - 0000000000003043] Standard SATA AHCI Controller
[0000000000003050 - 0000000000003057] Standard SATA AHCI Controller

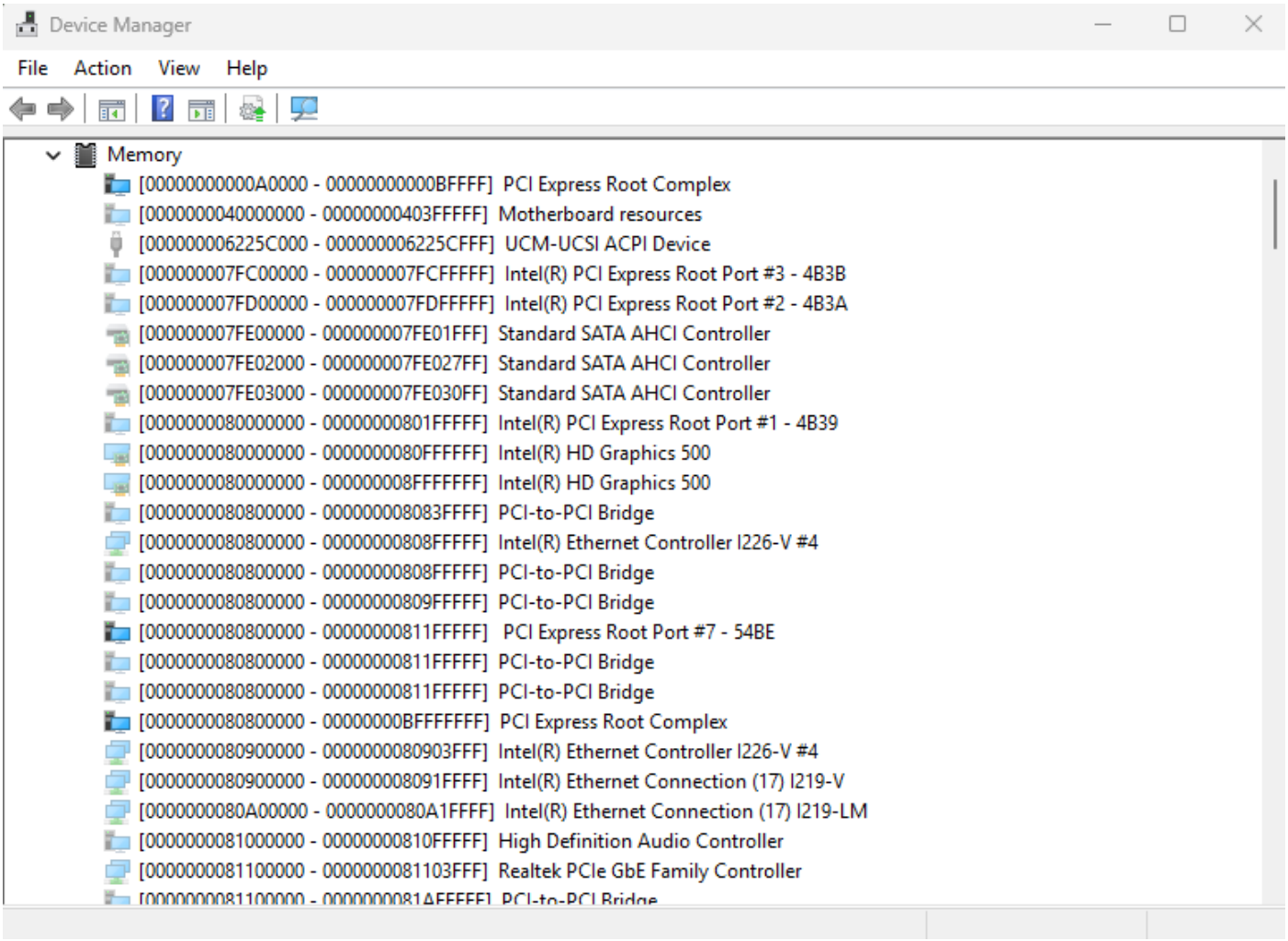

Device Manager
File Action View Help
[0000000000003060 - 000000000000307F] Intel Chipset SATA RAID Controller
[0000000000003060 - 000000000000307F] Standard SATA AHCI Controller
[0000000000003080 - 0000000000003083] Intel Chipset SATA RAID Controller
[0000000000003080 - 0000000000003083] Standard SATA AHCI Controller
[0000000000003090 - 0000000000003097] Intel Chipset SATA RAID Controller
[0000000000003090 - 0000000000003097] Standard SATA AHCI Controller
[0000000000004000 - 000000000000403F] Intel(R) UHD Graphics 730
[0000000000004000 - 000000000000403F] Intel(R) UHD Graphics 770
[0000000000004000 - 00000000000040FF] Realtek PCIe GbE Family Controller #10
[0000000000004000 - 0000000000004FFF] PCI Express Root Port #4 - 54BB
[0000000000004000 - 0000000000004FFF] PCI Express Root Port #9 - 54B0
[0000000000004000 - 0000000000004FFF] Intel(R) PCI Express Root Port #2 - 4B3A
[0000000000004000 - 0000000000004FFF] PCI-to-PCI Bridge
[0000000000004000 - 0000000000004FFF] PCI-to-PCI Bridge
[0000000000004060 - 000000000000407F] Standard SATA AHCI Controller
[0000000000004080 - 0000000000004083] Standard SATA AHCI Controller
[0000000000004090 - 0000000000004097] Standard SATA AHCI Controller
[0000000000005000 - 000000000000503F] Intel(R) UHD Graphics
[0000000000005000 - 000000000000503F] Intel(R) UHD Graphics 630
[0000000000005000 - 0000000000005FFF] PCI Express Root Port #3 - 54BA
[0000000000005000 - 0000000000005FFF] PCI Express Root Port #3 - 54BA
[0000000000005000 - 0000000000005FFF] PCI-to-PCI Bridge
[0000000000005060 - 000000000000507F] Standard SATA AHCI Controller
[0000000000005060 - 000000000000507F] Standard SATA AHCI Controller
[0000000000005080 - 0000000000005083] Standard SATA AHCI Controller

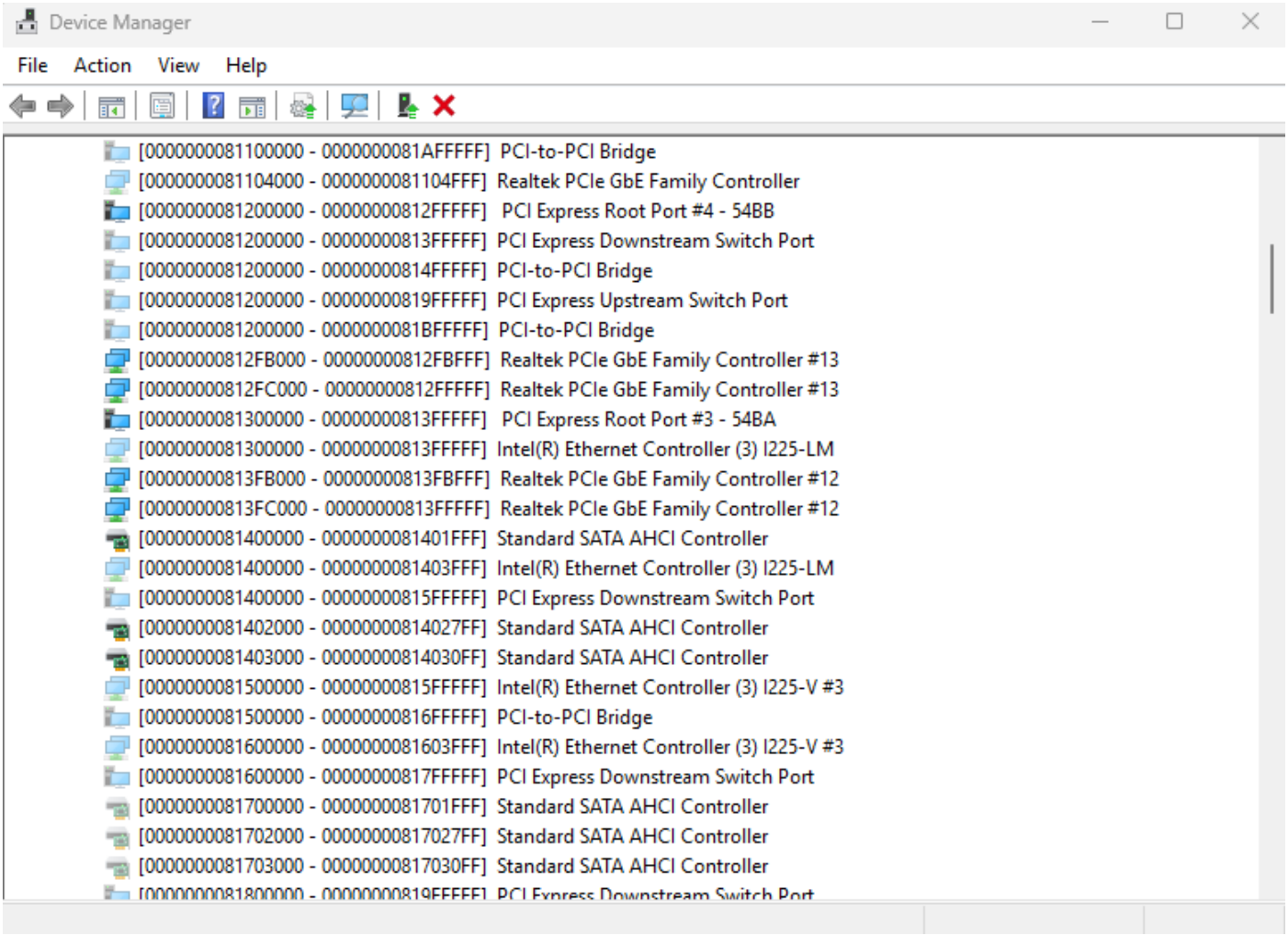

Device Manager
File
Action
View
Help
[0000000000005080 - 0000000000005083] Standard SATA AHCI Controller
[0000000000005090 - 0000000000005097] Standard SATA AHCI Controller
[0000000000005090 - 0000000000005097] Standard SATA AHCI Controller
[0000000000006000 - 000000000000603F] Intel(R) UHD Graphics
[0000000000006000 - 0000000000006FFF] PCI Express Root Port #1 - 54B8
[0000000000006000 - 0000000000006FFF] PCI-to-PCI Bridge
[0000000000006060 - 000000000000607F] Standard SATA AHCI Controller
[0000000000006080 - 0000000000006083] Standard SATA AHCI Controller
[0000000000006090 - 0000000000006097] Standard SATA AHCI Controller
[0000000000007000 - 000000000000703F] Intel(R) UHD Graphics
[0000000000007000 - 000000000000703F] Intel(R) UHD Graphics
[0000000000007000 - 0000000000007FFF] PCI-to-PCI Bridge
[0000000000008000 - 0000000000008FFF] PCI-to-PCI Bridge
[0000000000008C00 - 0000000000008CFE] Motherboard resources
[0000000000009000 - 000000000000903F] Microsoft Basic Display Adapter
[0000000000009000 - 0000000000009FFF] PCI-to-PCI Bridge
[000000000000A000 - 000000000000A03F] Microsoft Basic Display Adapter
[000000000000A060 - 000000000000A07F] Standard SATA AHCI Controller
[000000000000A080 - 000000000000A083] Standard SATA AHCI Controller
[000000000000A090 - 000000000000A097] Standard SATA AHCI Controller
[000000000000B000 - 000000000000BFFF] PCI-to-PCI Bridge
[000000000000C000 - 000000000000CFFF] PCI-to-PCI Bridge
[000000000000D000 - 000000000000D01F] Intel(R) I210 Gigabit Network Connection
[000000000000D000 - 000000000000D0FF] Realtek PCIe GbE Family Controller #8
[000000000000D000 - 000000000000D0FF] Realtek PCIe GbE Family Controller #7

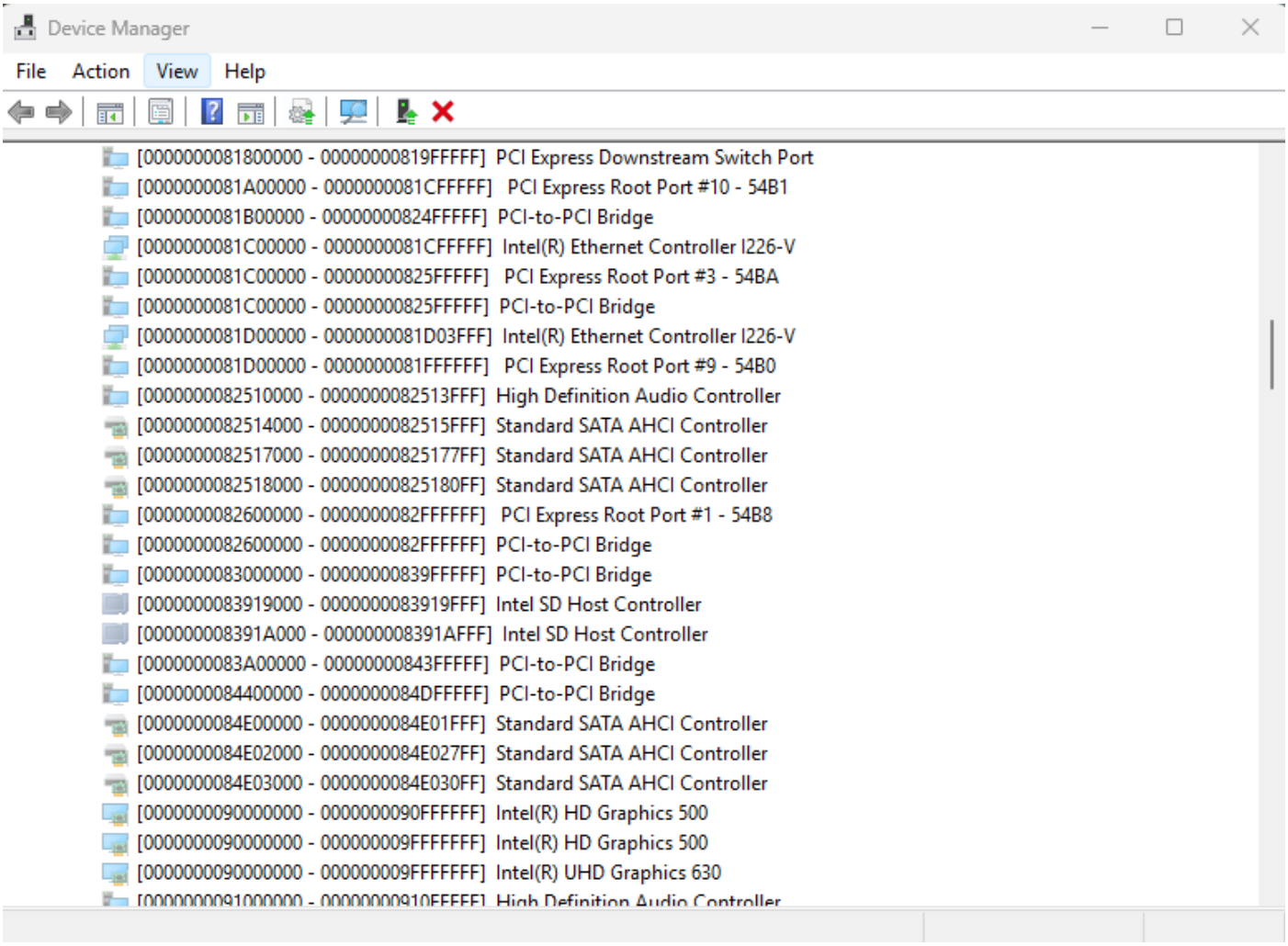

Device Manager
File Action View Help
[000000000000D000 - 000000000000D0FF] Realtek PCIe GbE Family Controller #8
[000000000000D000 - 000000000000D0FF] Realtek PCIe GbE Family Controller #7
[000000000000D000 - 000000000000D0FF] Realtek PCIe GbE Family Controller
[000000000000D000 - 000000000000DFFF] PCI Express Root Port
[000000000000D000 - 000000000000DFFF] PCI-to-PCI Bridge
[000000000000D000 - 000000000000DFFF] PCI-to-PCI Bridge
[000000000000D000 - 000000000000DFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000E01F] Intel(R) I210 Gigabit Network Connection #2
[000000000000E000 - 000000000000E0FF] Realtek PCIe GbE Family Controller #6
[000000000000E000 - 000000000000E0FF] Realtek PCIe GbE Family Controller #9
[000000000000E000 - 000000000000EFFF] PCI Express Root Port
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000EFA0 - 000000000000EFBF] Intel(R) SMBus Controller - 4B23
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 500
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 500
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 530
[000000000000F020 - 000000000000F03F] Standard SATA AHCI Controller
[000000000000F040 - 000000000000F043] Standard SATA AHCI Controller
[000000000000F050 - 000000000000F057] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F063] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F07F] Standard SATA AHCI Controller

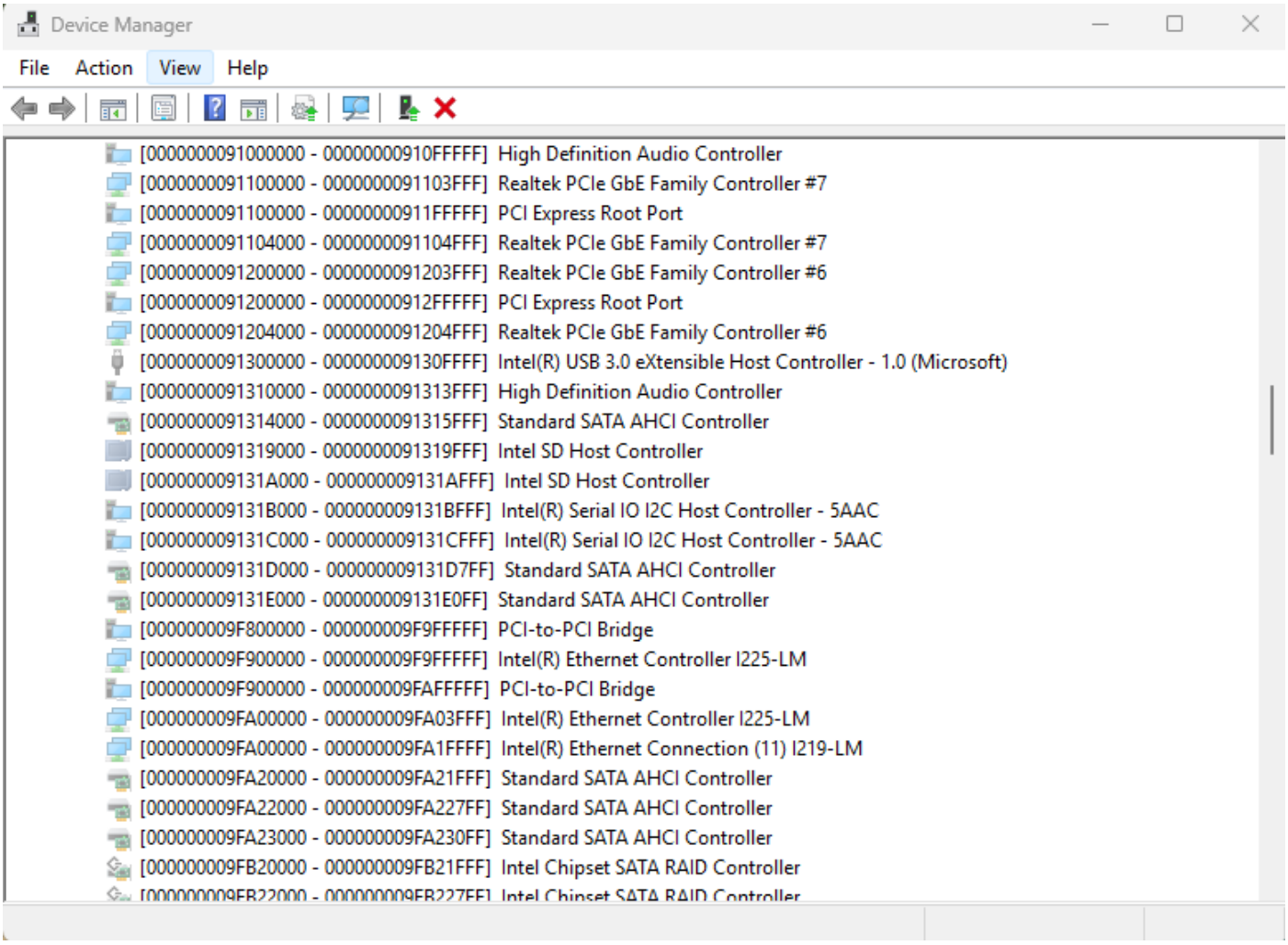

Device Manager
File Action View Help
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000E000 - 000000000000EFFF] PCI-to-PCI Bridge
[000000000000EFA0 - 000000000000EFBF] Intel(R) SMBus Controller - 4B23
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 500
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 500
[000000000000F000 - 000000000000F03F] Intel(R) HD Graphics 530
[000000000000F020 - 000000000000F03F] Standard SATA AHCI Controller
[000000000000F040 - 000000000000F043] Standard SATA AHCI Controller
[000000000000F050 - 000000000000F057] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F063] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F07F] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F07F] Standard SATA AHCI Controller
[000000000000F060 - 000000000000F07F] Standard SATA AHCI Controller
[000000000000F070 - 000000000000F077] Standard SATA AHCI Controller
[000000000000F080 - 000000000000F083] Standard SATA AHCI Controller
[000000000000F080 - 000000000000F083] Standard SATA AHCI Controller
[000000000000F080 - 000000000000F083] Standard SATA AHCI Controller
[000000000000F080 - 000000000000F087] Microsoft Basic Display Adapter
[000000000000F090 - 000000000000F097] Standard SATA AHCI Controller
[000000000000F090 - 000000000000F097] Standard SATA AHCI Controller
[000000000000F090 - 000000000000F097] Standard SATA AHCI Controller
[000000000000FFC0 - 000000000000FFFF] Intel(R) Graphics

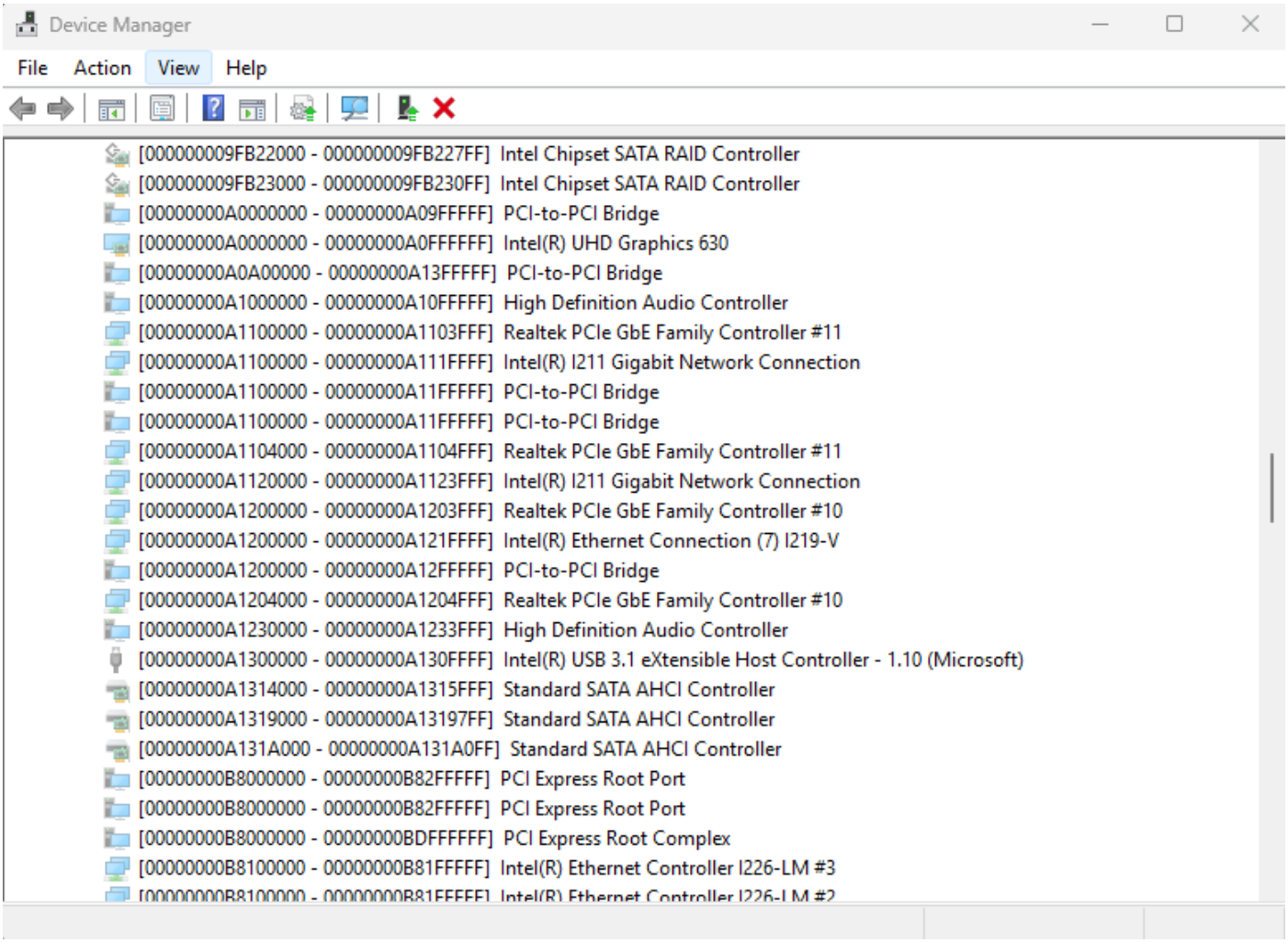
Memory Address Map

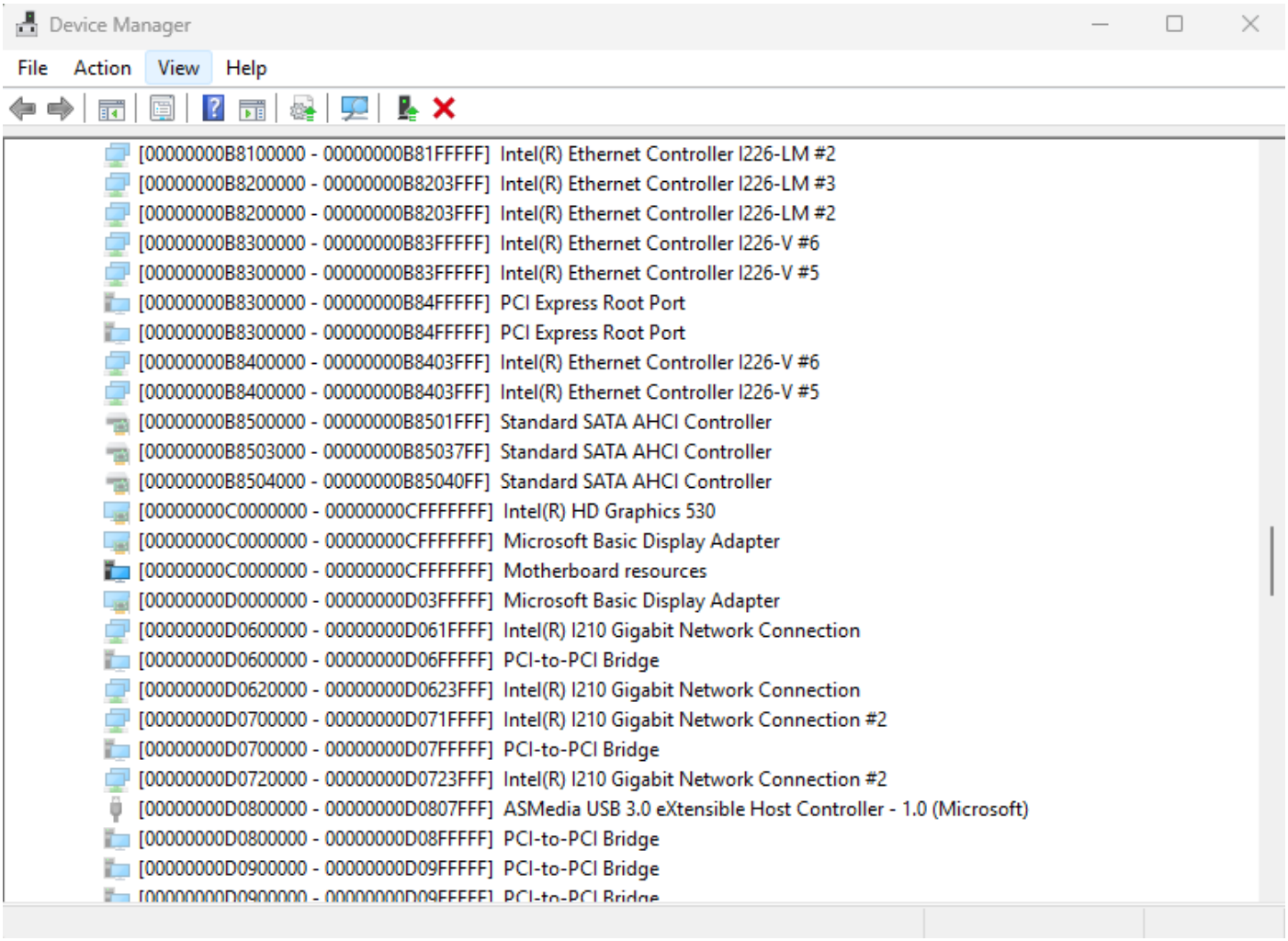


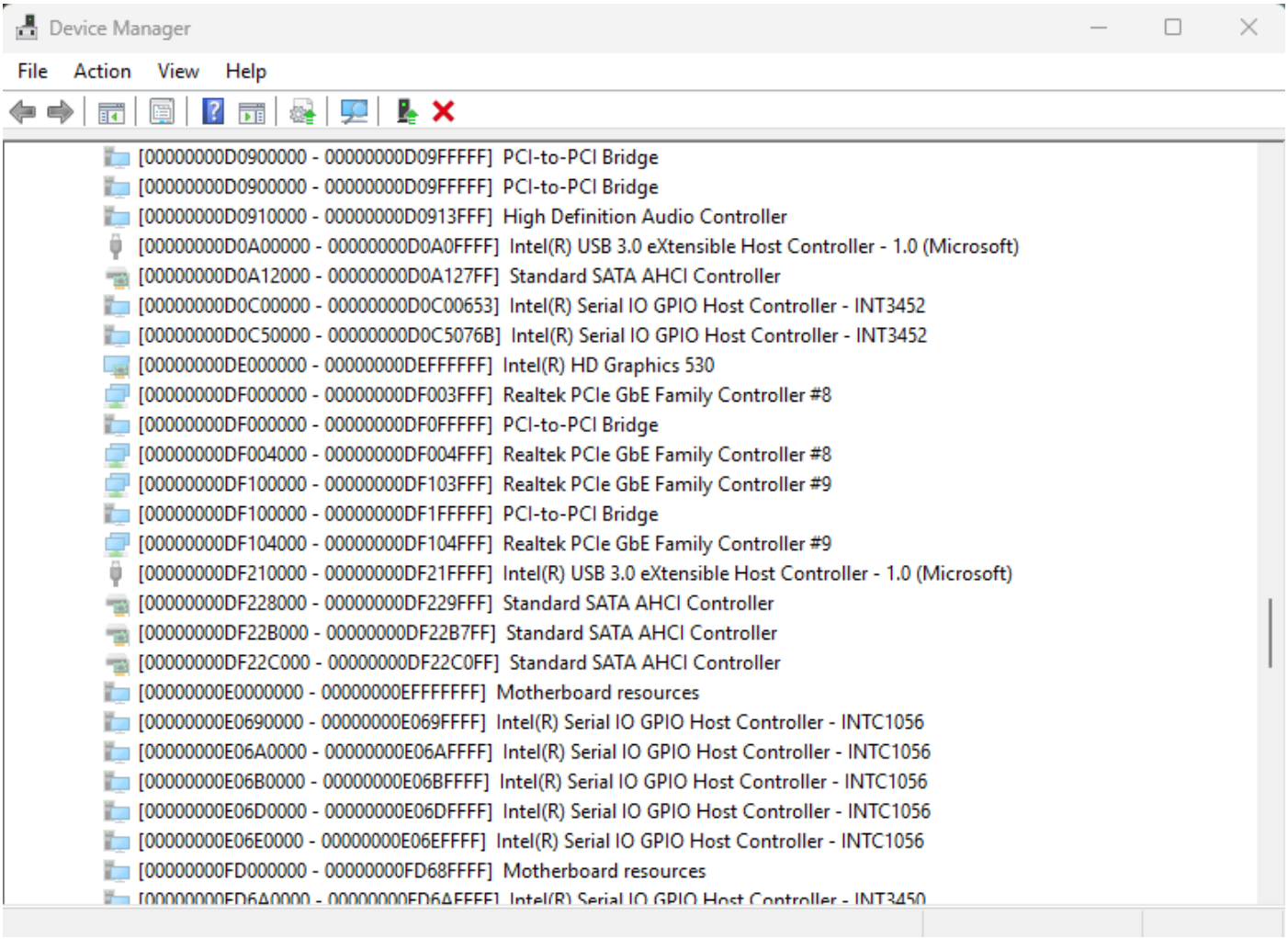

Device Manager
File Action View Help
[0000000081100000 - 0000000081AFFFFF] PCI-to-PCI Bridge
[0000000081104000 - 0000000081104FFF] Realtek PCIe GbE Family Controller
[0000000081200000 - 00000000812FFFFF] PCI Express Root Port #4 - 54BB
[0000000081200000 - 00000000813FFFFF] PCI Express Downstream Switch Port
[0000000081200000 - 00000000814FFFFF] PCI-to-PCI Bridge
[0000000081200000 - 00000000819FFFFF] PCI Express Upstream Switch Port
[0000000081200000 - 0000000081BFFFFF] PCI-to-PCI Bridge
[00000000812FB000 - 00000000812FBFFF] Realtek PCIe GbE Family Controller #13
[00000000812FC000 - 00000000812FFFFF] Realtek PCIe GbE Family Controller #13
[0000000081300000 - 00000000813FFFFF] PCI Express Root Port #3 - 54BA
[0000000081300000 - 00000000813FFFFF] Intel(R) Ethernet Controller (3) I225-LM
[00000000813FB000 - 00000000813FBFFF] Realtek PCIe GbE Family Controller #12
[00000000813FC000 - 00000000813FFFFF] Realtek PCIe GbE Family Controller #12
[0000000081400000 - 0000000081401FFF] Standard SATA AHCI Controller
[0000000081400000 - 0000000081403FFF] Intel(R) Ethernet Controller (3) I225-LM
[0000000081400000 - 00000000815FFFFF] PCI Express Downstream Switch Port
[0000000081402000 - 00000000814027FF] Standard SATA AHCI Controller
[0000000081403000 - 00000000814030FF] Standard SATA AHCI Controller
[0000000081500000 - 00000000815FFFFF] Intel(R) Ethernet Controller (3) I225-V #3
[0000000081500000 - 00000000816FFFFF] PCI-to-PCI Bridge
[0000000081600000 - 0000000081603FFF] Intel(R) Ethernet Controller (3) I225-V #3
[0000000081600000 - 00000000817FFFFF] PCI Express Downstream Switch Port
[0000000081700000 - 0000000081701FFF] Standard SATA AHCI Controller
[0000000081702000 - 00000000817027FF] Standard SATA AHCI Controller
[0000000081703000 - 00000000817030FF] Standard SATA AHCI Controller

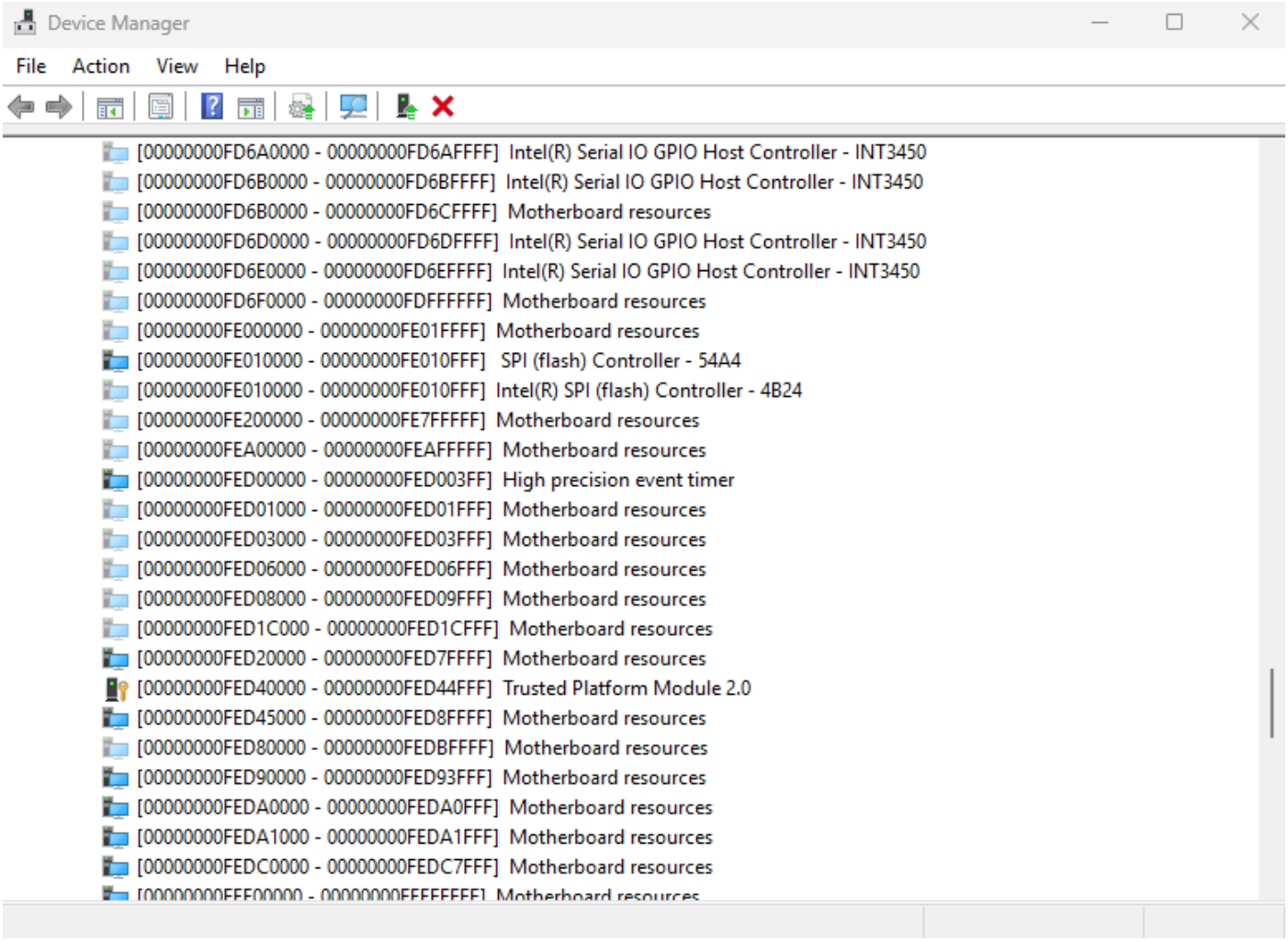

Device Manager
File
Action
View
Help
[0000000081800000 - 00000000819FFFFF] PCI Express Downstream Switch Port
[0000000081A00000 - 0000000081CFFFFF] PCI Express Root Port #10 - 54B1
[0000000081B00000 - 00000000824FFFFF] PCI-to-PCI Bridge
[0000000081C00000 - 0000000081CFFFFF] Intel(R) Ethernet Controller I226-V
[0000000081C00000 - 00000000825FFFFF] PCI Express Root Port #3 - 54BA
[0000000081C00000 - 00000000825FFFFF] PCI-to-PCI Bridge
[0000000081D00000 - 0000000081D03FFF] Intel(R) Ethernet Controller I226-V
[0000000081D00000 - 0000000081FFFFFF] PCI Express Root Port #9 - 54B0
[0000000082510000 - 0000000082513FFF] High Definition Audio Controller
[0000000082514000 - 0000000082515FFF] Standard SATA AHCI Controller
[0000000082517000 - 00000000825177FF] Standard SATA AHCI Controller
[0000000082518000 - 00000000825180FF] Standard SATA AHCI Controller
[0000000082600000 - 0000000082FFFFFF] PCI Express Root Port #1 - 54B8
[0000000082600000 - 0000000082FFFFFF] PCI-to-PCI Bridge
[0000000083000000 - 00000000839FFFFF] PCI-to-PCI Bridge
[0000000083919000 - 0000000083919FFF] Intel SD Host Controller
[000000008391A000 - 000000008391AFFF] Intel SD Host Controller
[0000000083A00000 - 00000000843FFFFF] PCI-to-PCI Bridge
[0000000084400000 - 0000000084DFFFFF] PCI-to-PCI Bridge
[0000000084E00000 - 0000000084E01FFF] Standard SATA AHCI Controller
[0000000084E02000 - 0000000084E027FF] Standard SATA AHCI Controller
[0000000084E03000 - 0000000084E030FF] Standard SATA AHCI Controller
[0000000090000000 - 0000000090FFFFFF] Intel(R) HD Graphics 500
[0000000090000000 - 000000009FFFFFFF] Intel(R) HD Graphics 500
[0000000090000000 - 000000009FFFFFFF] Intel(R) UHD Graphics 630

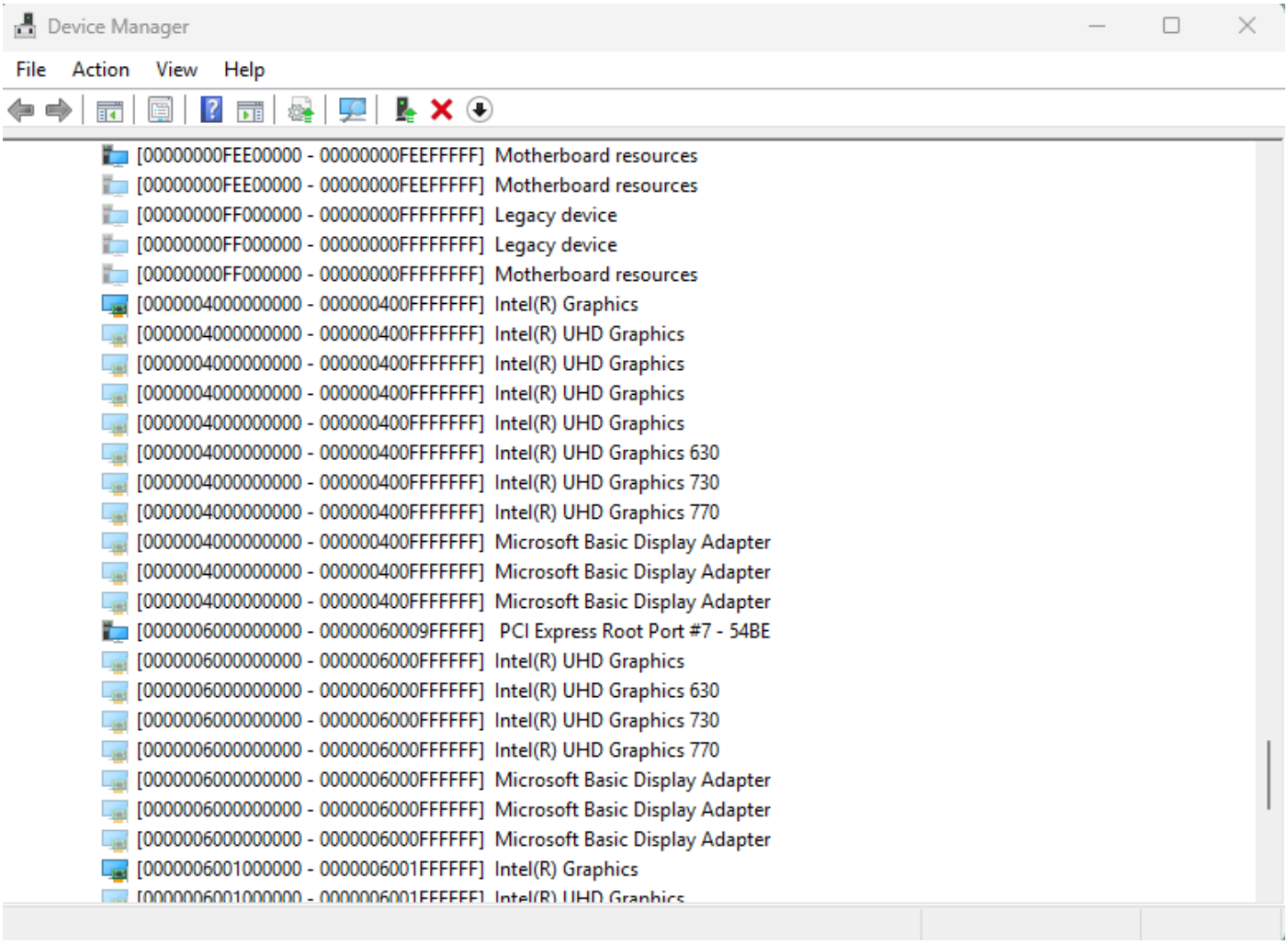

Device Manager
File
Action
View
Help
[0000000091000000 - 00000000910FFFFF] High Definition Audio Controller
[0000000091100000 - 0000000091103FFF] Realtek PCIe GbE Family Controller #7
[0000000091100000 - 00000000911FFFFF] PCI Express Root Port
[0000000091104000 - 0000000091104FFF] Realtek PCIe GbE Family Controller #7
[0000000091200000 - 0000000091203FFF] Realtek PCIe GbE Family Controller #6
[0000000091200000 - 00000000912FFFFF] PCI Express Root Port
[0000000091204000 - 0000000091204FFF] Realtek PCIe GbE Family Controller #6
[0000000091300000 - 000000009130FFFF] Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
[0000000091310000 - 0000000091313FFF] High Definition Audio Controller
[0000000091314000 - 0000000091315FFF] Standard SATA AHCI Controller
[0000000091319000 - 0000000091319FFF] Intel SD Host Controller
[000000009131A000 - 000000009131AFFF] Intel SD Host Controller
[000000009131B000 - 000000009131BFFF] Intel(R) Serial IO I2C Host Controller - 5AAC
[000000009131C000 - 000000009131CFFF] Intel(R) Serial IO I2C Host Controller - 5AAC
[000000009131D000 - 000000009131D7FF] Standard SATA AHCI Controller
[000000009131E000 - 000000009131E0FF] Standard SATA AHCI Controller
[000000009F800000 - 000000009F9FFFFF] PCI-to-PCI Bridge
[000000009F900000 - 000000009F9FFFFF] Intel(R) Ethernet Controller I225-LM
[000000009F900000 - 000000009FAFFFFF] PCI-to-PCI Bridge
[000000009FA00000 - 000000009FA03FFF] Intel(R) Ethernet Controller I225-LM
[000000009FA00000 - 000000009FA1FFFF] Intel(R) Ethernet Connection (11) I219-LM
[000000009FA20000 - 000000009FA21FFF] Standard SATA AHCI Controller
[000000009FA22000 - 000000009FA227FF] Standard SATA AHCI Controller
[000000009FA23000 - 000000009FA230FF] Standard SATA AHCI Controller
[000000009FB20000 - 000000009FB21FFF] Intel Chipset SATA RAID Controller

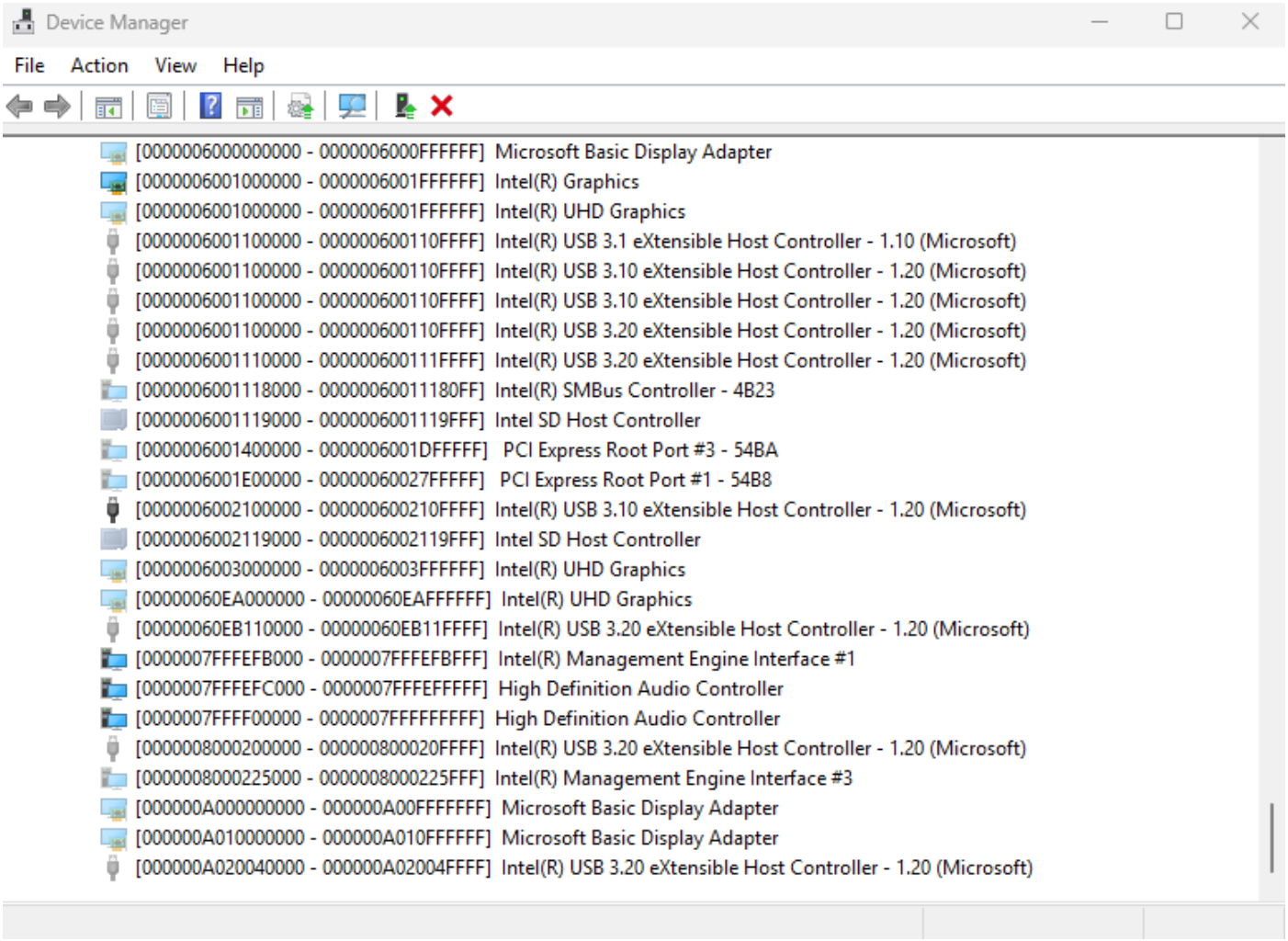

Device Manager
File
Action
View
Help
[000000009FB22000 - 000000009FB227FF] Intel Chipset SATA RAID Controller
[000000009FB23000 - 000000009FB230FF] Intel Chipset SATA RAID Controller
[00000000A0000000 - 00000000A09FFFFF] PCI-to-PCI Bridge
[00000000A0000000 - 00000000A0FFFFFF] Intel(R) UHD Graphics 630
[00000000A0A00000 - 00000000A13FFFFF] PCI-to-PCI Bridge
[00000000A1000000 - 00000000A10FFFFF] High Definition Audio Controller
[00000000A1100000 - 00000000A1103FFF] Realtek PCIe GbE Family Controller #11
[00000000A1100000 - 00000000A111FFFF] Intel(R) I211 Gigabit Network Connection
[00000000A1100000 - 00000000A11FFFFF] PCI-to-PCI Bridge
[00000000A1100000 - 00000000A11FFFFF] PCI-to-PCI Bridge
[00000000A1104000 - 00000000A1104FFF] Realtek PCIe GbE Family Controller #11
[00000000A1120000 - 00000000A1123FFF] Intel(R) I211 Gigabit Network Connection
[00000000A1200000 - 00000000A1203FFF] Realtek PCIe GbE Family Controller #10
[00000000A1200000 - 00000000A121FFFF] Intel(R) Ethernet Connection (7) I219-V
[00000000A1200000 - 00000000A12FFFFF] PCI-to-PCI Bridge
[00000000A1204000 - 00000000A1204FFF] Realtek PCIe GbE Family Controller #10
[00000000A1230000 - 00000000A1233FFF] High Definition Audio Controller
[00000000A1300000 - 00000000A130FFFF] Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
[00000000A1314000 - 00000000A1315FFF] Standard SATA AHCI Controller
[00000000A1319000 - 00000000A13197FF] Standard SATA AHCI Controller
[00000000A131A000 - 00000000A131A0FF] Standard SATA AHCI Controller
[00000000B8000000 - 00000000B82FFFFF] PCI Express Root Port
[00000000B8000000 - 00000000B82FFFFF] PCI Express Root Port
[00000000B8000000 - 00000000BDFFFFFF] PCI Express Root Complex
[00000000B8100000 - 00000000B81FFFFF] Intel(R) Ethernet Controller I226-LM #3


Device Manager
File
Action
View
Help
[00000000B8100000 - 00000000B81FFFFF] Intel(R) Ethernet Controller I226-LM #2
[00000000B8200000 - 00000000B8203FFF] Intel(R) Ethernet Controller I226-LM #3
[00000000B8200000 - 00000000B8203FFF] Intel(R) Ethernet Controller I226-LM #2
[00000000B8300000 - 00000000B83FFFFF] Intel(R) Ethernet Controller I226-V #6
[00000000B8300000 - 00000000B83FFFFF] Intel(R) Ethernet Controller I226-V #5
[00000000B8300000 - 00000000B84FFFFF] PCI Express Root Port
[00000000B8300000 - 00000000B84FFFFF] PCI Express Root Port
[00000000B8400000 - 00000000B8403FFF] Intel(R) Ethernet Controller I226-V #6
[00000000B8400000 - 00000000B8403FFF] Intel(R) Ethernet Controller I226-V #5
[00000000B8500000 - 00000000B8501FFF] Standard SATA AHCI Controller
[00000000B8503000 - 00000000B85037FF] Standard SATA AHCI Controller
[00000000B8504000 - 00000000B85040FF] Standard SATA AHCI Controller
[00000000C0000000 - 00000000CFFFFFFF] Intel(R) HD Graphics 530
[00000000C0000000 - 00000000CFFFFFFF] Microsoft Basic Display Adapter
[00000000C0000000 - 00000000CFFFFFFF] Motherboard resources
[00000000D0000000 - 00000000D03FFFFF] Microsoft Basic Display Adapter
[00000000D0600000 - 00000000D061FFFF] Intel(R) I210 Gigabit Network Connection
[00000000D0600000 - 00000000D06FFFFF] PCI-to-PCI Bridge
[00000000D0620000 - 00000000D0623FFF] Intel(R) I210 Gigabit Network Connection
[00000000D0700000 - 00000000D071FFFF] Intel(R) I210 Gigabit Network Connection #2
[00000000D0700000 - 00000000D07FFFFF] PCI-to-PCI Bridge
[00000000D0720000 - 00000000D0723FFF] Intel(R) I210 Gigabit Network Connection #2
[00000000D0800000 - 00000000D0807FFF] ASMedia USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
[00000000D0800000 - 00000000D08FFFFF] PCI-to-PCI Bridge
[00000000D0900000 - 00000000D09FFFFF] PCI-to-PCI Bridge

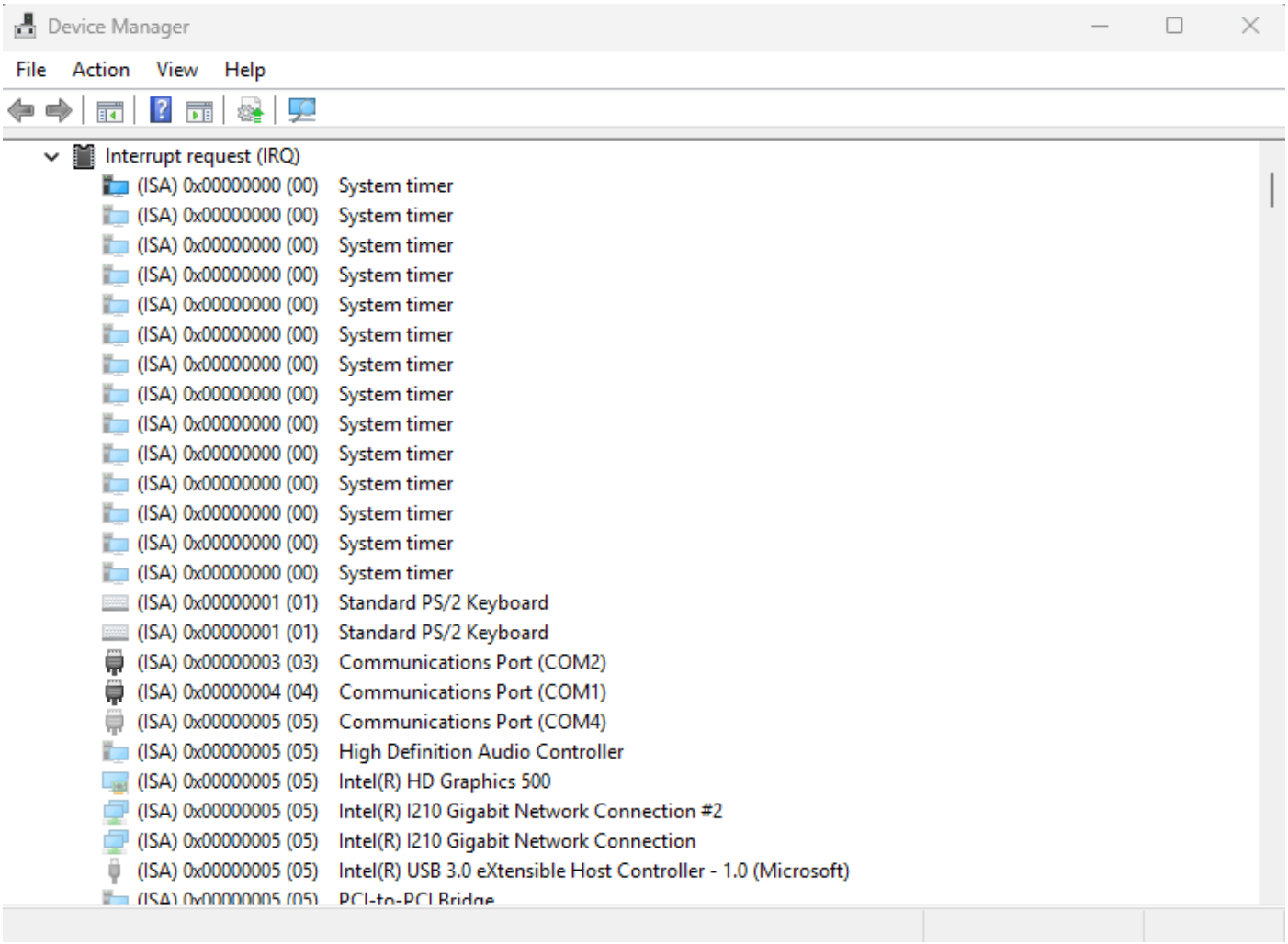

Device Manager
File
Action
View
Help
[00000000D0900000 - 00000000D09FFFFF] PCI-to-PCI Bridge
[00000000D0900000 - 00000000D09FFFFF] PCI-to-PCI Bridge
[00000000D0910000 - 00000000D0913FFF] High Definition Audio Controller
[00000000D0A00000 - 00000000D0A0FFFF] Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
[00000000D0A12000 - 00000000D0A127FF] Standard SATA AHCI Controller
[00000000D0C00000 - 00000000D0C00653] Intel(R) Serial IO GPIO Host Controller - INT3452
[00000000D0C50000 - 00000000D0C5076B] Intel(R) Serial IO GPIO Host Controller - INT3452
[00000000DE000000 - 00000000DEFFFFFF] Intel(R) HD Graphics 530
[00000000DF000000 - 00000000DF003FFF] Realtek PCIe GbE Family Controller #8
[00000000DF000000 - 00000000DF0FFFFF] PCI-to-PCI Bridge
[00000000DF004000 - 00000000DF004FFF] Realtek PCIe GbE Family Controller #8
[00000000DF100000 - 00000000DF103FFF] Realtek PCIe GbE Family Controller #9
[00000000DF100000 - 00000000DF1FFFFF] PCI-to-PCI Bridge
[00000000DF104000 - 00000000DF104FFF] Realtek PCIe GbE Family Controller #9
[00000000DF210000 - 00000000DF21FFFF] Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
[00000000DF228000 - 00000000DF229FFF] Standard SATA AHCI Controller
[00000000DF22B000 - 00000000DF22B7FF] Standard SATA AHCI Controller
[00000000DF22C000 - 00000000DF22C0FF] Standard SATA AHCI Controller
[00000000E0000000 - 00000000EFFFFFFF] Motherboard resources
[00000000E0690000 - 00000000E069FFFF] Intel(R) Serial IO GPIO Host Controller - INTC1056
[00000000E06A0000 - 00000000E06AFFFF] Intel(R) Serial IO GPIO Host Controller - INTC1056
[00000000E06B0000 - 00000000E06BFFFF] Intel(R) Serial IO GPIO Host Controller - INTC1056
[00000000E06D0000 - 00000000E06DFFFF] Intel(R) Serial IO GPIO Host Controller - INTC1056
[00000000E06E0000 - 00000000E06EFFFF] Intel(R) Serial IO GPIO Host Controller - INTC1056
[00000000FD000000 - 00000000FD68FFFF] Motherboard resources

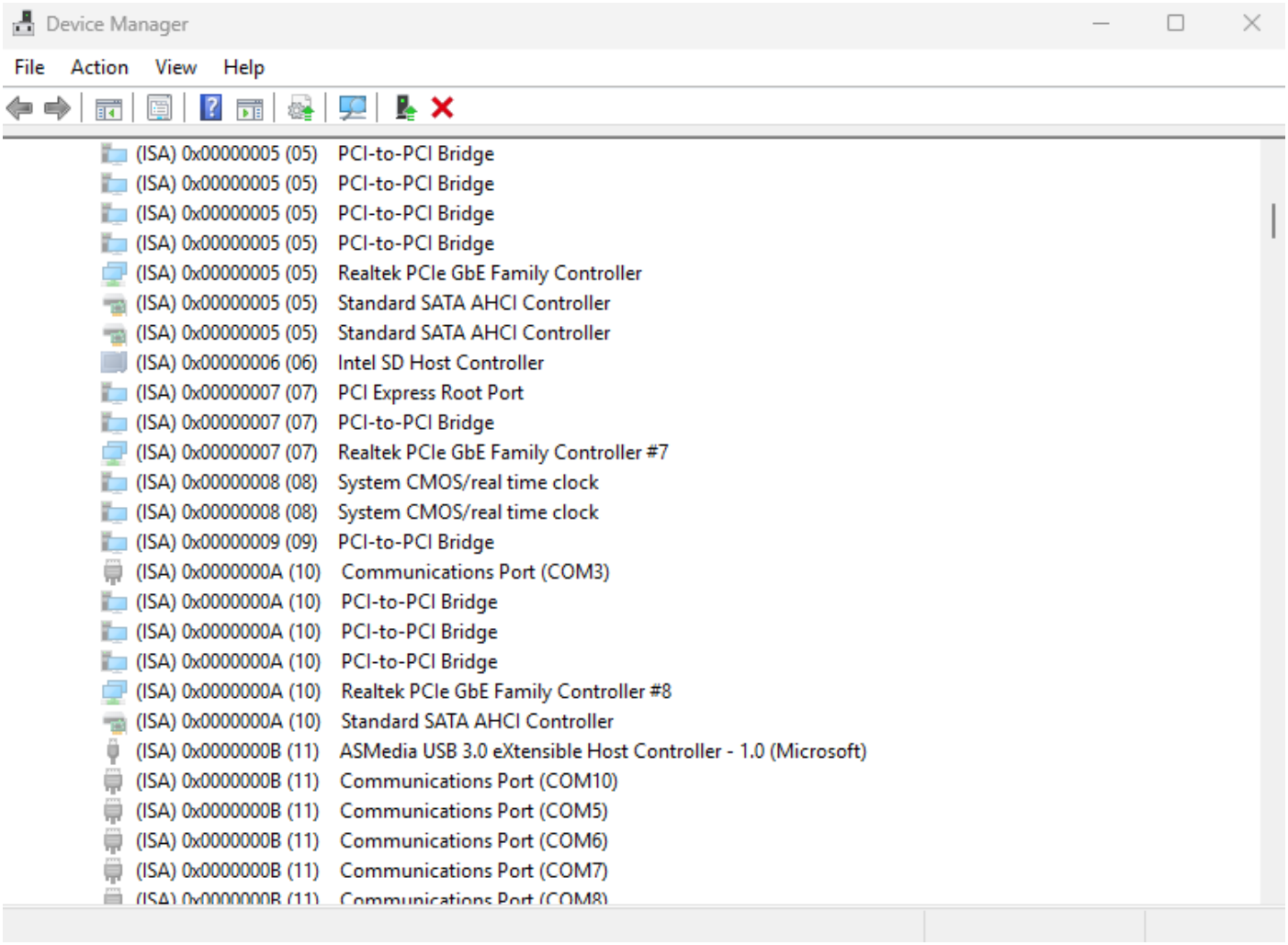

Device Manager
File Action View Help
[00000000FD6A0000 - 00000000FD6AFFFF] Intel(R) Serial IO GPIO Host Controller - INT3450
[00000000FD6B0000 - 00000000FD6BFFFF] Intel(R) Serial IO GPIO Host Controller - INT3450
[00000000FD6B0000 - 00000000FD6CFFFF] Motherboard resources
[00000000FD6D0000 - 00000000FD6DFFFF] Intel(R) Serial IO GPIO Host Controller - INT3450
[00000000FD6E0000 - 00000000FD6EFFFF] Intel(R) Serial IO GPIO Host Controller - INT3450
[00000000FD6F0000 - 00000000FDFFFFFF] Motherboard resources
[00000000FE000000 - 00000000FE01FFFF] Motherboard resources
[00000000FE010000 - 00000000FE010FFF] SPI (flash) Controller - 54A4
[00000000FE010000 - 00000000FE010FFF] Intel(R) SPI (flash) Controller - 4B24
[00000000FE200000 - 00000000FE7FFFFF] Motherboard resources
[00000000FEA00000 - 00000000FEAFFFFF] Motherboard resources
[00000000FED00000 - 00000000FED003FF] High precision event timer
[00000000FED01000 - 00000000FED01FFF] Motherboard resources
[00000000FED03000 - 00000000FED03FFF] Motherboard resources
[00000000FED06000 - 00000000FED06FFF] Motherboard resources
[00000000FED08000 - 00000000FED09FFF] Motherboard resources
[00000000FED1C000 - 00000000FED1CFFF] Motherboard resources
[00000000FED20000 - 00000000FED7FFFF] Motherboard resources
[00000000FED40000 - 00000000FED44FFF] Trusted Platform Module 2.0
[00000000FED45000 - 00000000FED8FFFF] Motherboard resources
[00000000FED80000 - 00000000FEDBFFFF] Motherboard resources
[00000000FED90000 - 00000000FED93FFF] Motherboard resources
[00000000FEDA0000 - 00000000FEDA0FFF] Motherboard resources
[00000000FEDA1000 - 00000000FEDA1FFF] Motherboard resources
[00000000FEDC0000 - 00000000FEDC7FFF] Motherboard resources

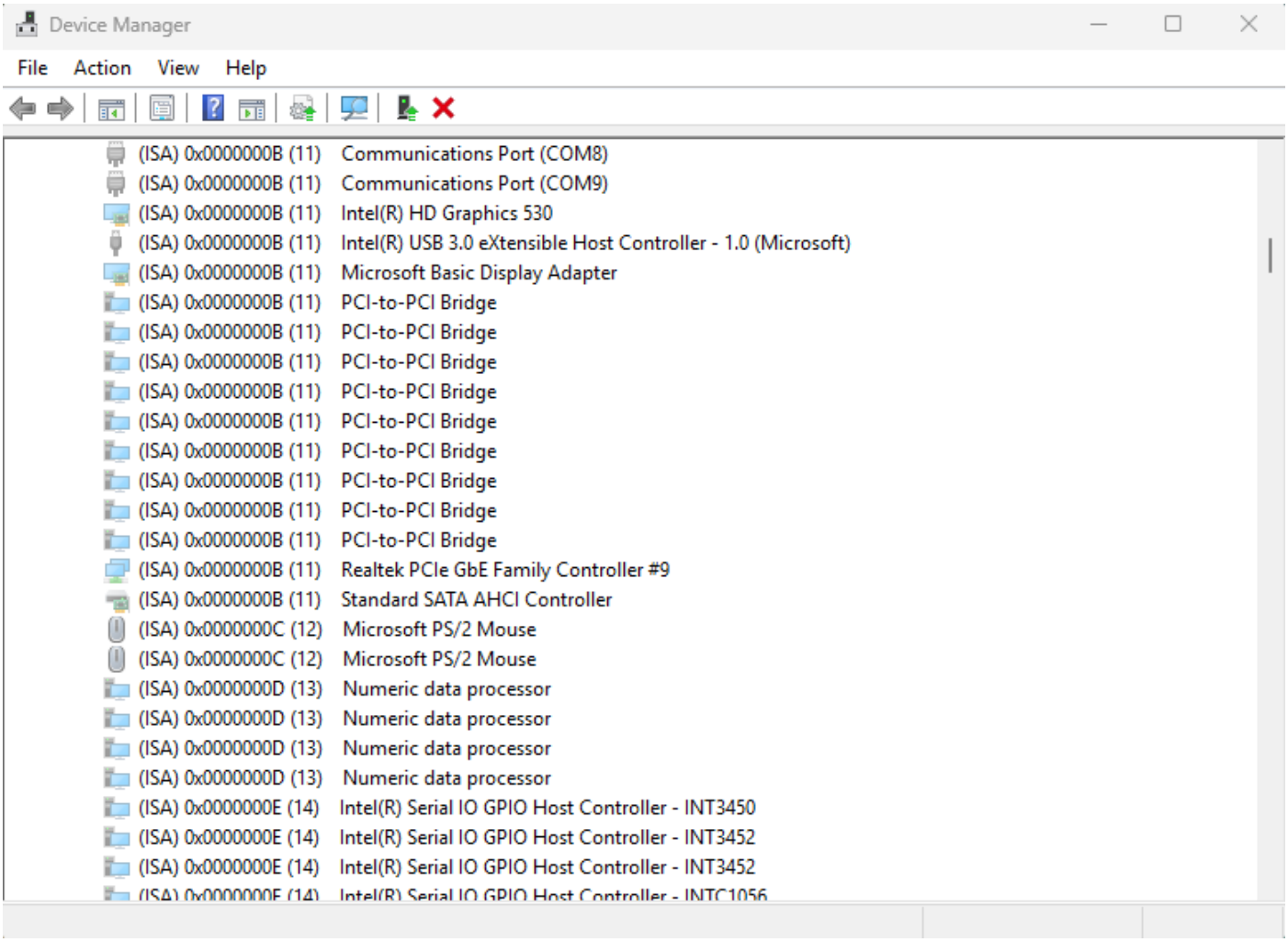

Device Manager
File Action View Help
[00000000FEE00000 - 00000000FEEFFFFF] Motherboard resources
[00000000FEE00000 - 00000000FEEFFFFF] Motherboard resources
[00000000FF000000 - 00000000FFFFFFFF] Legacy device
[00000000FF000000 - 00000000FFFFFFFF] Legacy device
[00000000FF000000 - 00000000FFFFFFFF] Motherboard resources
[0000004000000000 - 000000400FFFFFFF] Intel(R) Graphics
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics 630
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics 730
[0000004000000000 - 000000400FFFFFFF] Intel(R) UHD Graphics 770
[0000004000000000 - 000000400FFFFFFF] Microsoft Basic Display Adapter
[0000004000000000 - 000000400FFFFFFF] Microsoft Basic Display Adapter
[0000004000000000 - 000000400FFFFFFF] Microsoft Basic Display Adapter
[0000006000000000 - 00000060009FFFFF] PCI Express Root Port #7 - 54BE
[0000006000000000 - 0000006000FFFFFF] Intel(R) UHD Graphics
[0000006000000000 - 0000006000FFFFFF] Intel(R) UHD Graphics 630
[0000006000000000 - 0000006000FFFFFF] Intel(R) UHD Graphics 730
[0000006000000000 - 0000006000FFFFFF] Intel(R) UHD Graphics 770
[0000006000000000 - 0000006000FFFFFF] Microsoft Basic Display Adapter
[0000006000000000 - 0000006000FFFFFF] Microsoft Basic Display Adapter
[0000006000000000 - 0000006000FFFFFF] Microsoft Basic Display Adapter
[0000006001000000 - 0000006001FFFFFF] Intel(R) Graphics

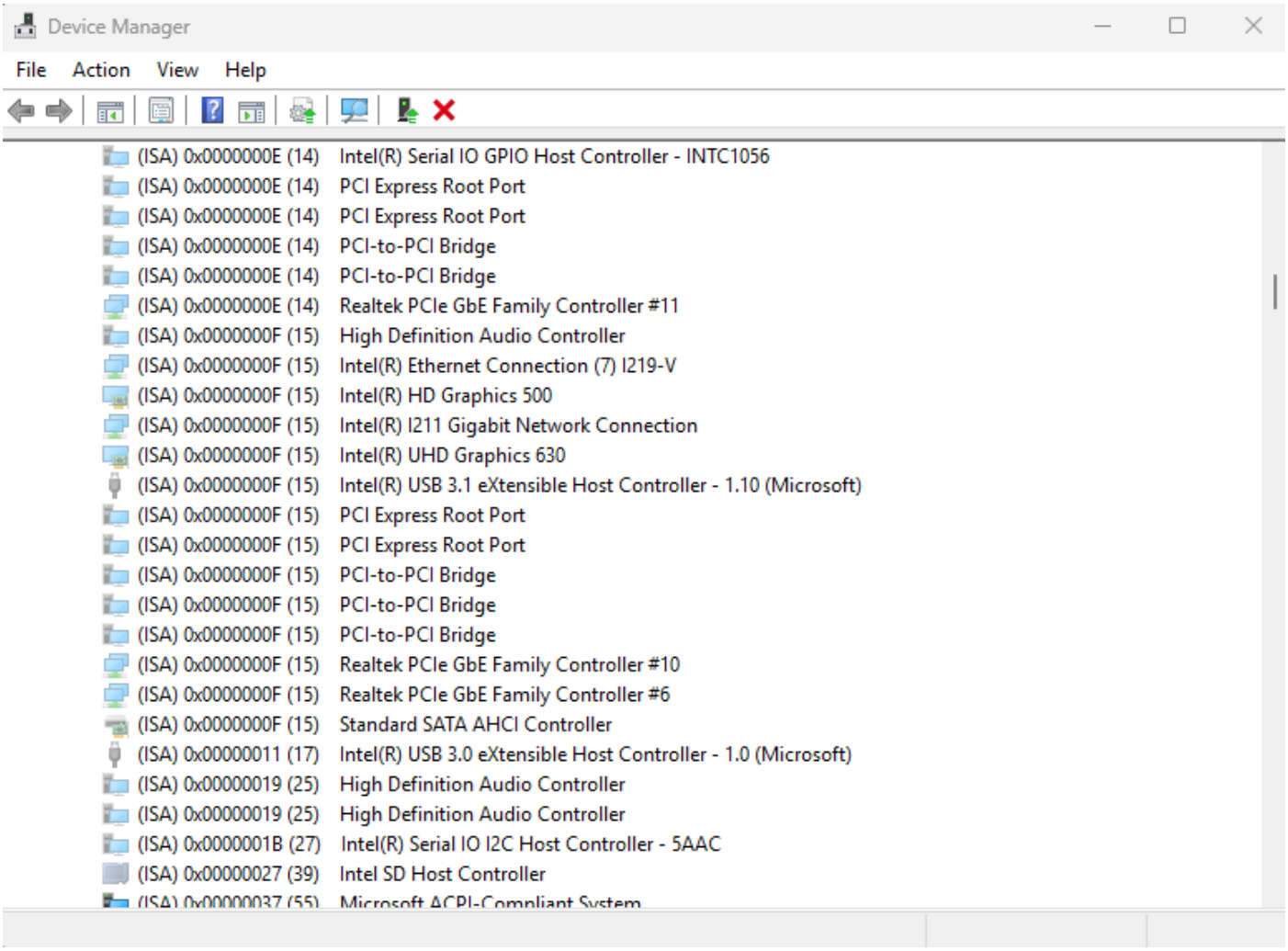

Device Manager
File Action View Help
[0000006000000000 - 0000006000FFFFFF] Microsoft Basic Display Adapter
[0000006001000000 - 0000006001FFFFFF] Intel(R) Graphics
[0000006001000000 - 0000006001FFFFFF] Intel(R) UHD Graphics
[0000006001100000 - 000000600110FFFF] Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
[0000006001100000 - 000000600110FFFF] Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
[0000006001100000 - 000000600110FFFF] Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
[0000006001100000 - 000000600110FFFF] Intel(R) USB 3.20 eXtensible Host Controller - 1.20 (Microsoft)
[0000006001110000 - 000000600111FFFF] Intel(R) USB 3.20 eXtensible Host Controller - 1.20 (Microsoft)
[0000006001118000 - 00000060011180FF] Intel(R) SMBus Controller - 4B23
[0000006001119000 - 0000006001119FFF] Intel SD Host Controller
[0000006001400000 - 0000006001DFFFFF] PCI Express Root Port #3 - 54BA
[0000006001E00000 - 00000060027FFFFF] PCI Express Root Port #1 - 54B8
[0000006002100000 - 000000600210FFFF] Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
[0000006002119000 - 0000006002119FFF] Intel SD Host Controller
[0000006003000000 - 0000006003FFFFFF] Intel(R) UHD Graphics
[00000060EA000000 - 00000060EAFFFFFF] Intel(R) UHD Graphics
[00000060EB110000 - 00000060EB11FFFF] Intel(R) USB 3.20 eXtensible Host Controller - 1.20 (Microsoft)
[0000007FFFEFB000 - 0000007FFFEFBFFF] Intel(R) Management Engine Interface #1
[0000007FFFEFC000 - 0000007FFFEFFFFF] High Definition Audio Controller
[0000007FFFF00000 - 0000007FFFFFFFFF] High Definition Audio Controller
[0000008000200000 - 000000800020FFFF] Intel(R) USB 3.20 eXtensible Host Controller - 1.20 (Microsoft)
[0000008000225000 - 0000008000225FFF] Intel(R) Management Engine Interface #3
[000000A000000000 - 000000A00FFFFFFF] Microsoft Basic Display Adapter
[000000A010000000 - 000000A010FFFFFF] Microsoft Basic Display Adapter
[000000A020040000 - 000000A02004FFFF] Intel(R) USB 3.20 eXtensible Host Controller - 1.20 (Microsoft)

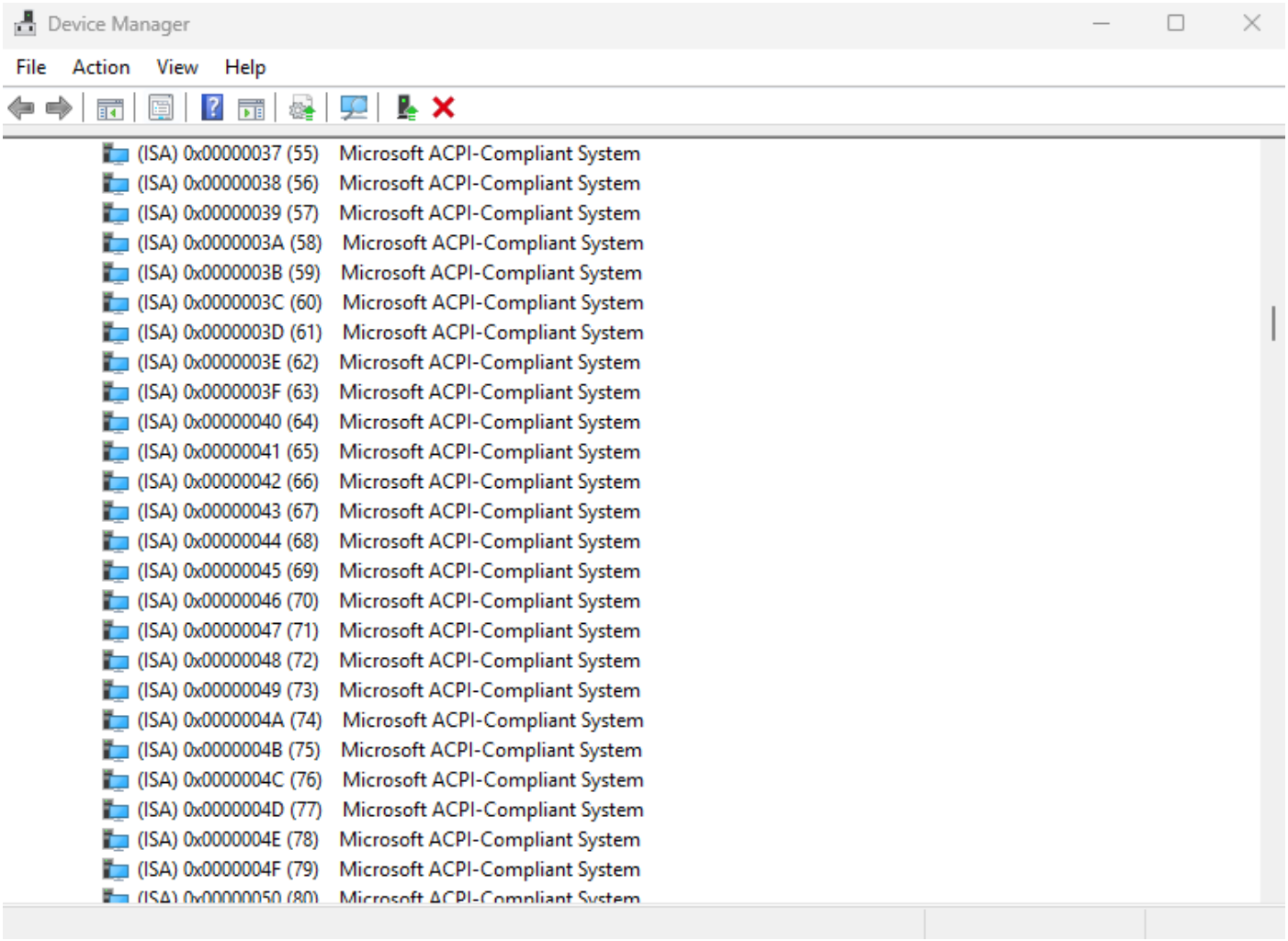
IRQ Mapping Chart

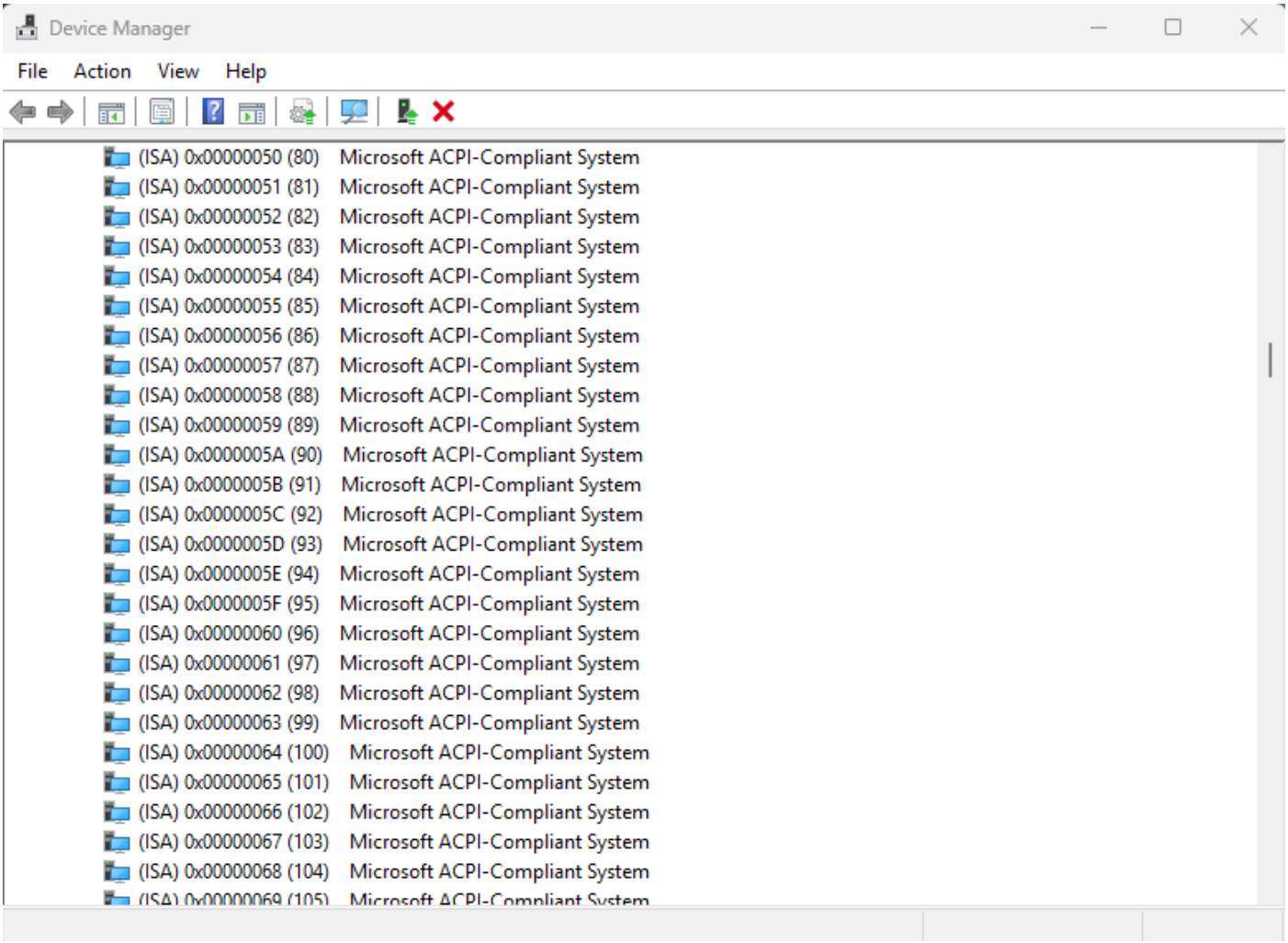


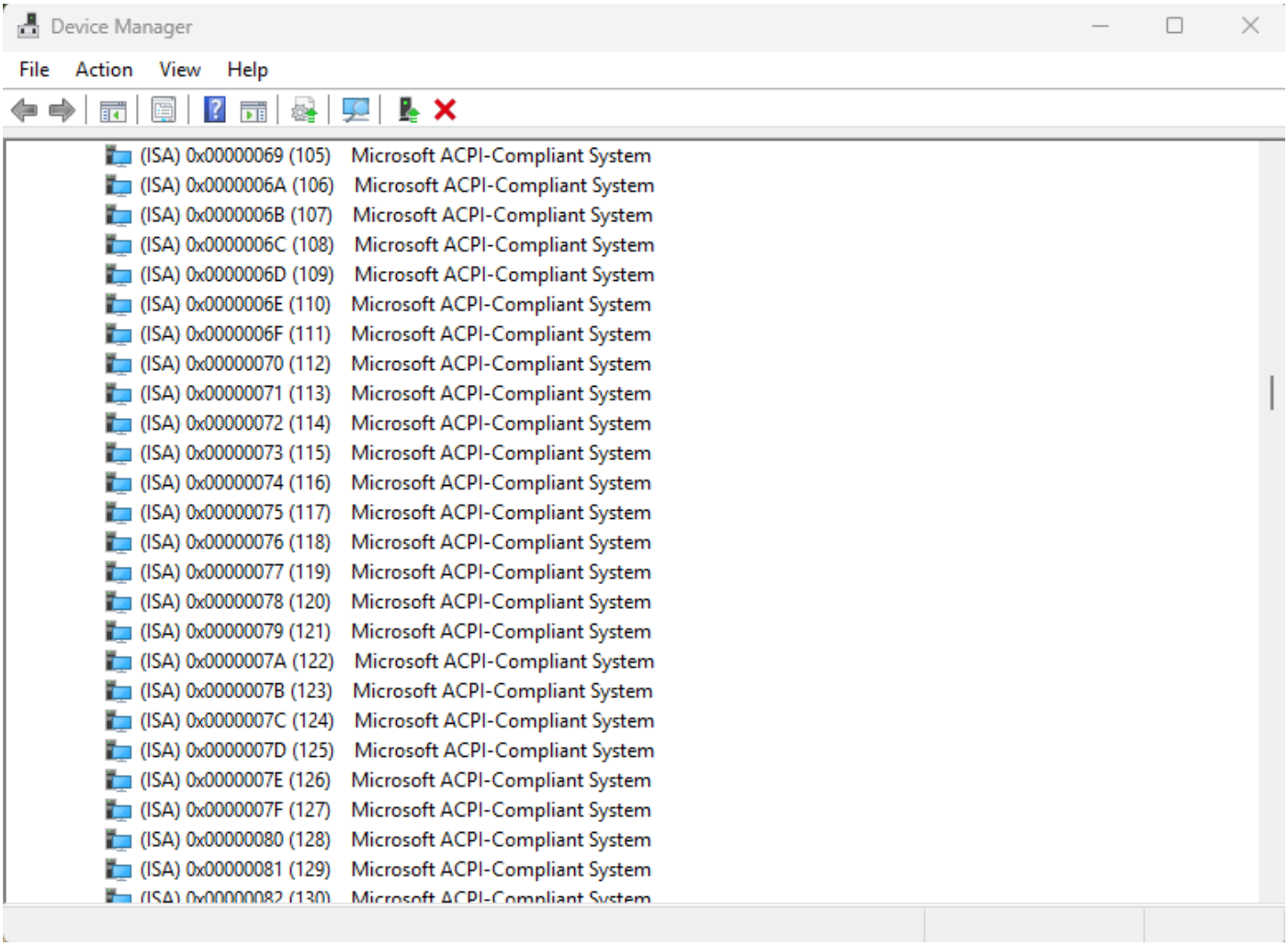

Device Manager
File Action View Help
(ISA) 0x00000005 (05) PCI-to-PCI Bridge
(ISA) 0x00000005 (05) PCI-to-PCI Bridge
(ISA) 0x00000005 (05) PCI-to-PCI Bridge
(ISA) 0x00000005 (05) PCI-to-PCI Bridge
(ISA) 0x00000005 (05) Realtek PCIe GbE Family Controller
(ISA) 0x00000005 (05) Standard SATA AHCI Controller
(ISA) 0x00000005 (05) Standard SATA AHCI Controller
(ISA) 0x00000006 (06) Intel SD Host Controller
(ISA) 0x00000007 (07) PCI Express Root Port
(ISA) 0x00000007 (07) PCI-to-PCI Bridge
(ISA) 0x00000007 (07) Realtek PCIe GbE Family Controller #7
(ISA) 0x00000008 (08) System CMOS/real time clock
(ISA) 0x00000008 (08) System CMOS/real time clock
(ISA) 0x00000009 (09) PCI-to-PCI Bridge
(ISA) 0x0000000A (10) Communications Port (COM3)
(ISA) 0x0000000A (10) PCI-to-PCI Bridge
(ISA) 0x0000000A (10) PCI-to-PCI Bridge
(ISA) 0x0000000A (10) PCI-to-PCI Bridge
(ISA) 0x0000000A (10) Realtek PCIe GbE Family Controller #8
(ISA) 0x0000000A (10) Standard SATA AHCI Controller
(ISA) 0x0000000B (11) ASMedia USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
(ISA) 0x0000000B (11) Communications Port (COM10)
(ISA) 0x0000000B (11) Communications Port (COM5)
(ISA) 0x0000000B (11) Communications Port (COM6)
(ISA) 0x0000000B (11) Communications Port (COM7)

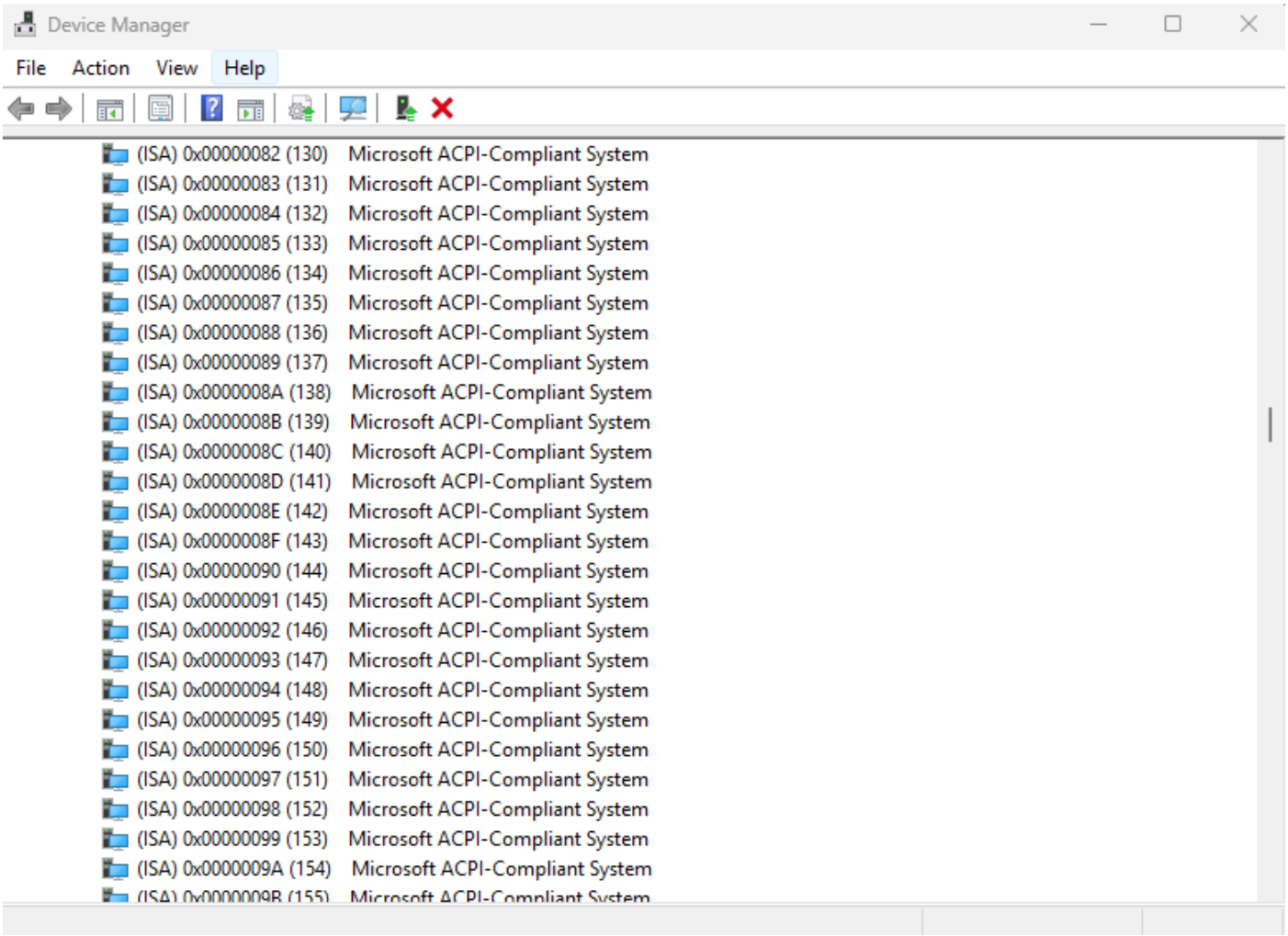

Device Manager
File
Action
View
Help
(ISA) 0x0000000B (11) Communications Port (COM8)
(ISA) 0x0000000B (11) Communications Port (COM9)
(ISA) 0x0000000B (11) Intel(R) HD Graphics 530
(ISA) 0x0000000B (11) Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
(ISA) 0x0000000B (11) Microsoft Basic Display Adapter
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) PCI-to-PCI Bridge
(ISA) 0x0000000B (11) Realtek PCIe GbE Family Controller #9
(ISA) 0x0000000B (11) Standard SATA AHCI Controller
(ISA) 0x0000000C (12) Microsoft PS/2 Mouse
(ISA) 0x0000000C (12) Microsoft PS/2 Mouse
(ISA) 0x0000000D (13) Numeric data processor
(ISA) 0x0000000D (13) Numeric data processor
(ISA) 0x0000000D (13) Numeric data processor
(ISA) 0x0000000D (13) Numeric data processor
(ISA) 0x0000000E (14) Intel(R) Serial IO GPIO Host Controller - INT3450
(ISA) 0x0000000E (14) Intel(R) Serial IO GPIO Host Controller - INT3452
(ISA) 0x0000000E (14) Intel(R) Serial IO GPIO Host Controller - INT3452

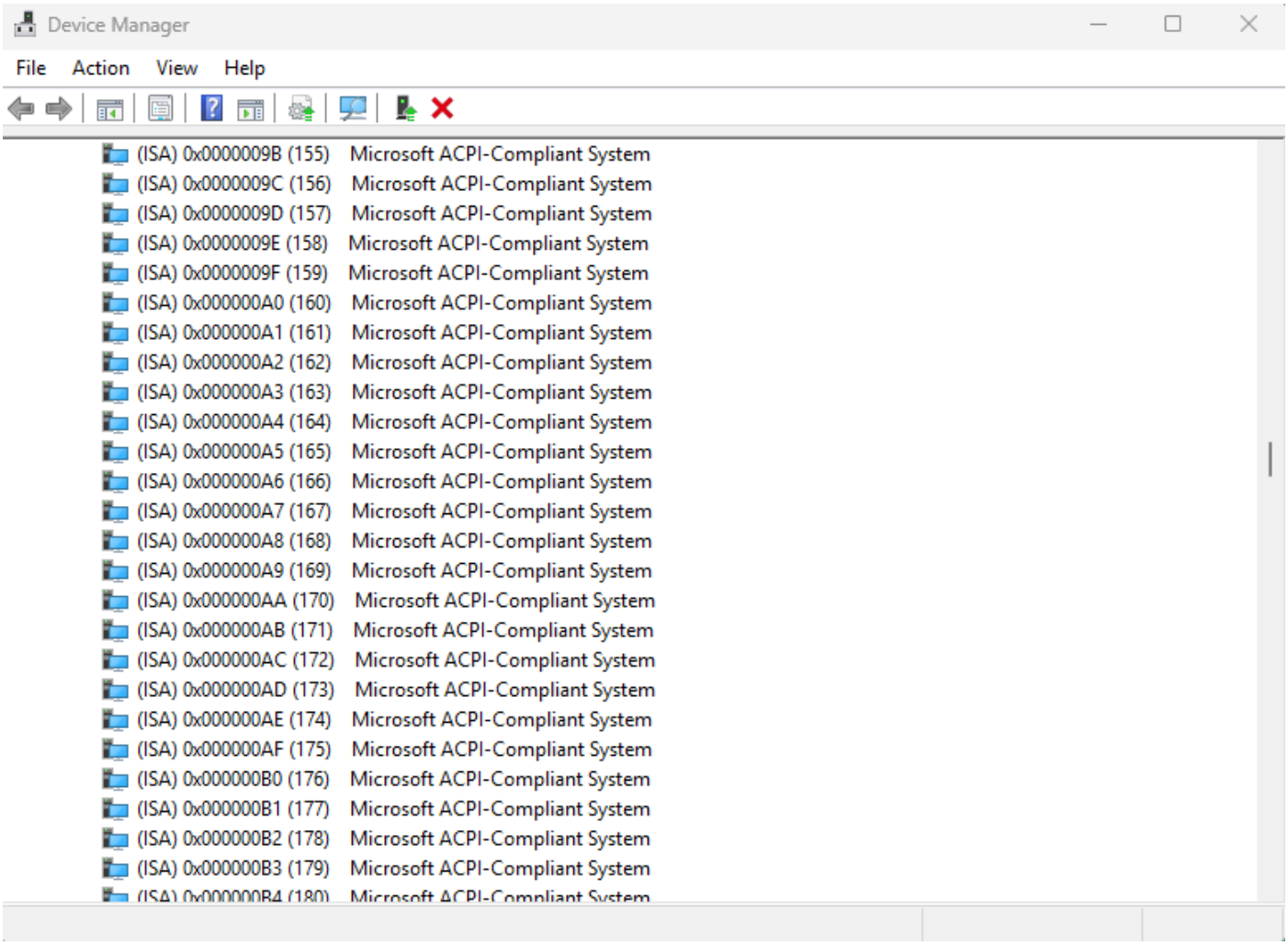

Device Manager
File Action View Help
(ISA) 0x0000000E (14) Intel(R) Serial IO GPIO Host Controller - INTC1056
(ISA) 0x0000000E (14) PCI Express Root Port
(ISA) 0x0000000E (14) PCI Express Root Port
(ISA) 0x0000000E (14) PCI-to-PCI Bridge
(ISA) 0x0000000E (14) PCI-to-PCI Bridge
(ISA) 0x0000000E (14) Realtek PCIe GbE Family Controller #11
(ISA) 0x0000000F (15) High Definition Audio Controller
(ISA) 0x0000000F (15) Intel(R) Ethernet Connection (7) I219-V
(ISA) 0x0000000F (15) Intel(R) HD Graphics 500
(ISA) 0x0000000F (15) Intel(R) I211 Gigabit Network Connection
(ISA) 0x0000000F (15) Intel(R) UHD Graphics 630
(ISA) 0x0000000F (15) Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
(ISA) 0x0000000F (15) PCI Express Root Port
(ISA) 0x0000000F (15) PCI Express Root Port
(ISA) 0x0000000F (15) PCI-to-PCI Bridge
(ISA) 0x0000000F (15) PCI-to-PCI Bridge
(ISA) 0x0000000F (15) PCI-to-PCI Bridge
(ISA) 0x0000000F (15) Realtek PCIe GbE Family Controller #10
(ISA) 0x0000000F (15) Realtek PCIe GbE Family Controller #6
(ISA) 0x0000000F (15) Standard SATA AHCI Controller
(ISA) 0x00000011 (17) Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft)
(ISA) 0x00000019 (25) High Definition Audio Controller
(ISA) 0x00000019 (25) High Definition Audio Controller
(ISA) 0x0000001B (27) Intel(R) Serial IO I2C Host Controller - 5AAC
(ISA) 0x00000027 (39) Intel SD Host Controller

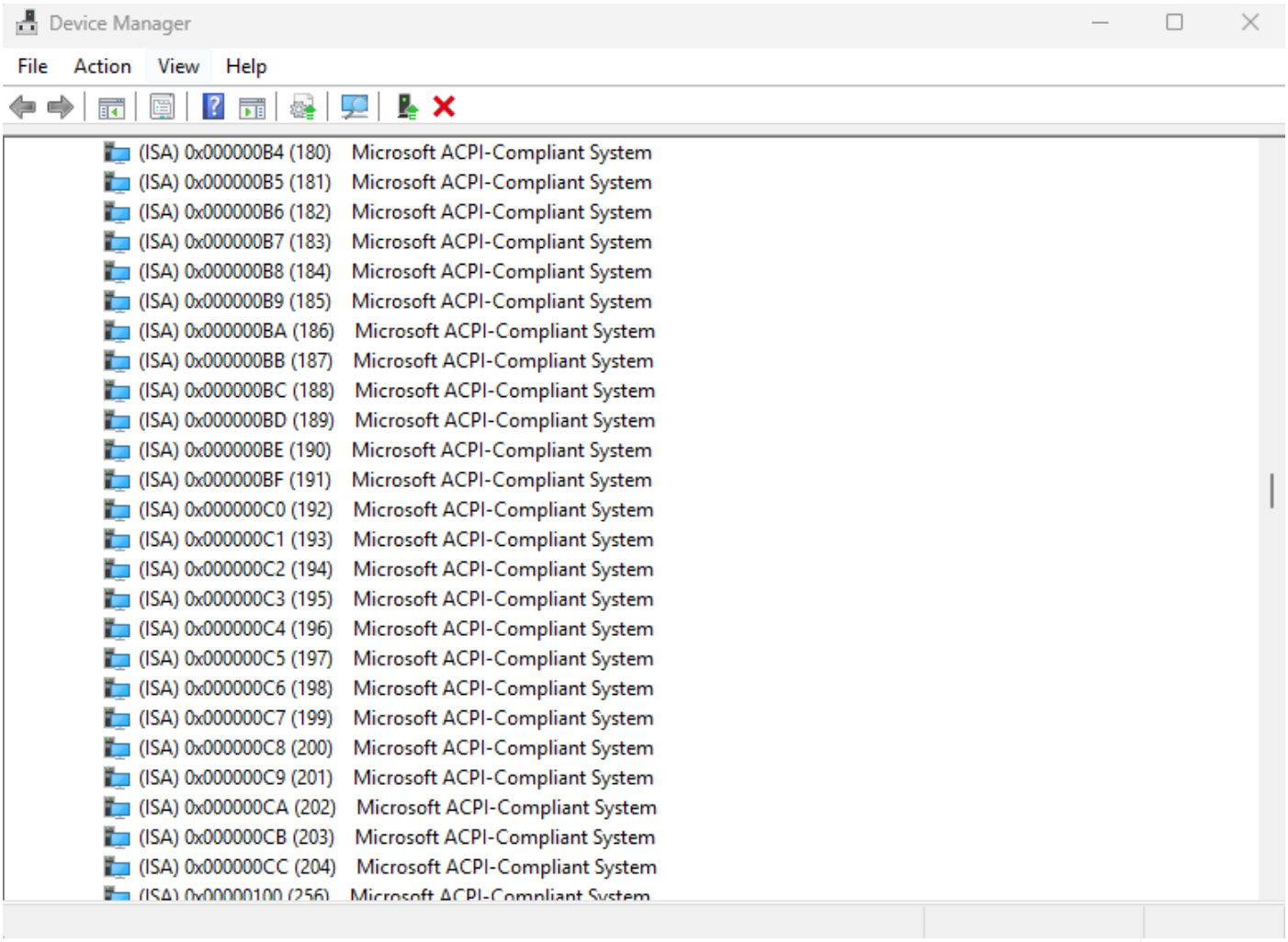

Device Manager
File Action View Help
(ISA) 0x00000037 (55) Microsoft ACPI-Compliant System
(ISA) 0x00000038 (56) Microsoft ACPI-Compliant System
(ISA) 0x00000039 (57) Microsoft ACPI-Compliant System
(ISA) 0x0000003A (58) Microsoft ACPI-Compliant System
(ISA) 0x0000003B (59) Microsoft ACPI-Compliant System
(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

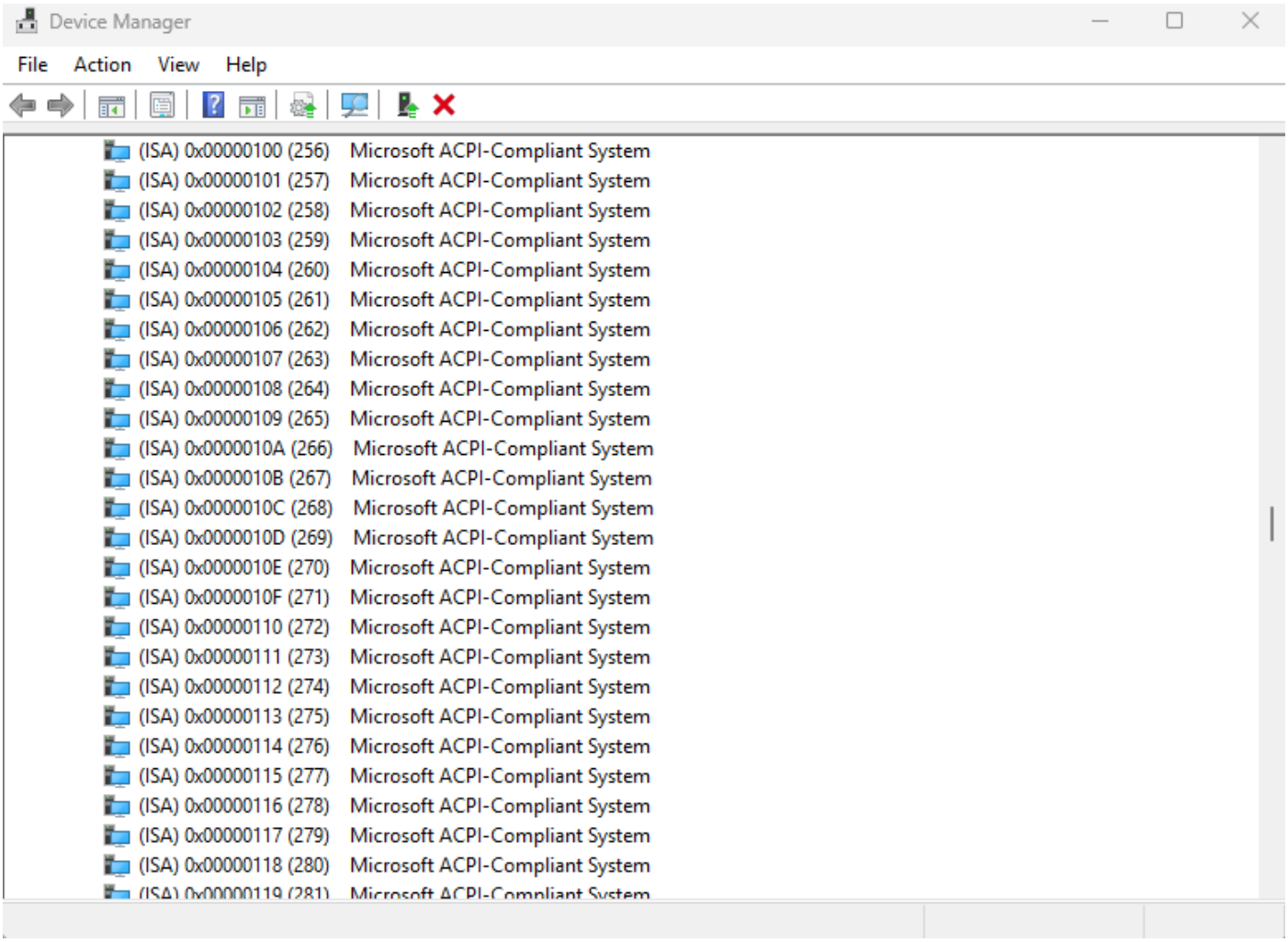

Device Manager
File
Action
View
Help
(ISA) 0x00000050 (80) Microsoft ACPI-Compliant System
(ISA) 0x00000051 (81) Microsoft ACPI-Compliant System
(ISA) 0x00000052 (82) Microsoft ACPI-Compliant System
(ISA) 0x00000053 (83) Microsoft ACPI-Compliant System
(ISA) 0x00000054 (84) Microsoft ACPI-Compliant System
(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
(ISA) 0x00000064 (100) Microsoft ACPI-Compliant System
(ISA) 0x00000065 (101) Microsoft ACPI-Compliant System
(ISA) 0x00000066 (102) Microsoft ACPI-Compliant System
(ISA) 0x00000067 (103) Microsoft ACPI-Compliant System
(ISA) 0x00000068 (104) Microsoft ACPI-Compliant System

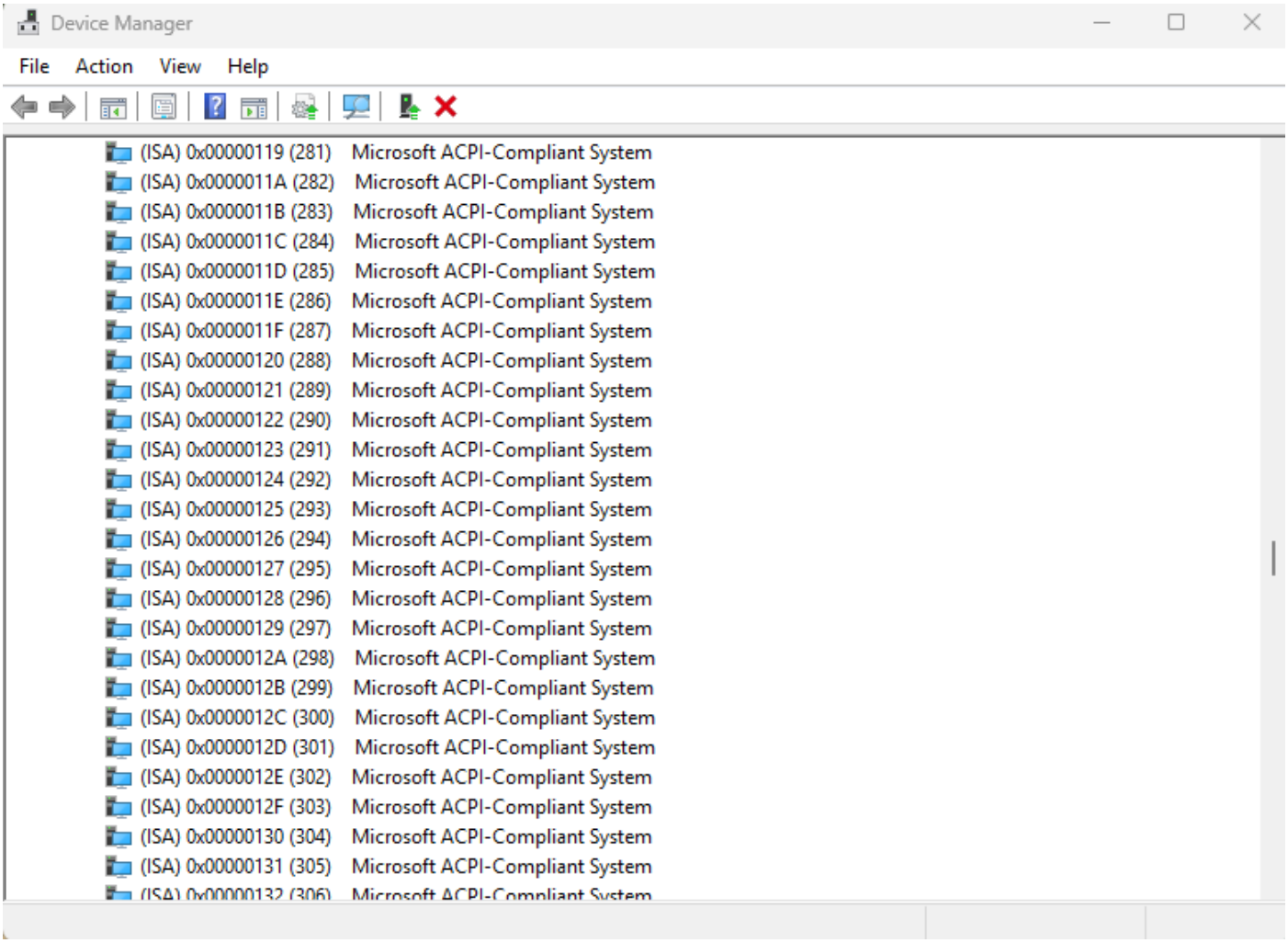

Device Manager
File
Action
View
Help
(ISA) 0x00000069 (105) Microsoft ACPI-Compliant System
(ISA) 0x0000006A (106) Microsoft ACPI-Compliant System
(ISA) 0x0000006B (107) Microsoft ACPI-Compliant System
(ISA) 0x0000006C (108) Microsoft ACPI-Compliant System
(ISA) 0x0000006D (109) Microsoft ACPI-Compliant System
(ISA) 0x0000006E (110) Microsoft ACPI-Compliant System
(ISA) 0x0000006F (111) Microsoft ACPI-Compliant System
(ISA) 0x00000070 (112) Microsoft ACPI-Compliant System
(ISA) 0x00000071 (113) Microsoft ACPI-Compliant System
(ISA) 0x00000072 (114) Microsoft ACPI-Compliant System
(ISA) 0x00000073 (115) Microsoft ACPI-Compliant System
(ISA) 0x00000074 (116) Microsoft ACPI-Compliant System
(ISA) 0x00000075 (117) Microsoft ACPI-Compliant System
(ISA) 0x00000076 (118) Microsoft ACPI-Compliant System
(ISA) 0x00000077 (119) Microsoft ACPI-Compliant System
(ISA) 0x00000078 (120) Microsoft ACPI-Compliant System
(ISA) 0x00000079 (121) Microsoft ACPI-Compliant System
(ISA) 0x0000007A (122) Microsoft ACPI-Compliant System
(ISA) 0x0000007B (123) Microsoft ACPI-Compliant System
(ISA) 0x0000007C (124) Microsoft ACPI-Compliant System
(ISA) 0x0000007D (125) Microsoft ACPI-Compliant System
(ISA) 0x0000007E (126) Microsoft ACPI-Compliant System
(ISA) 0x0000007F (127) Microsoft ACPI-Compliant System
(ISA) 0x00000080 (128) Microsoft ACPI-Compliant System
(ISA) 0x00000081 (129) Microsoft ACPI-Compliant System

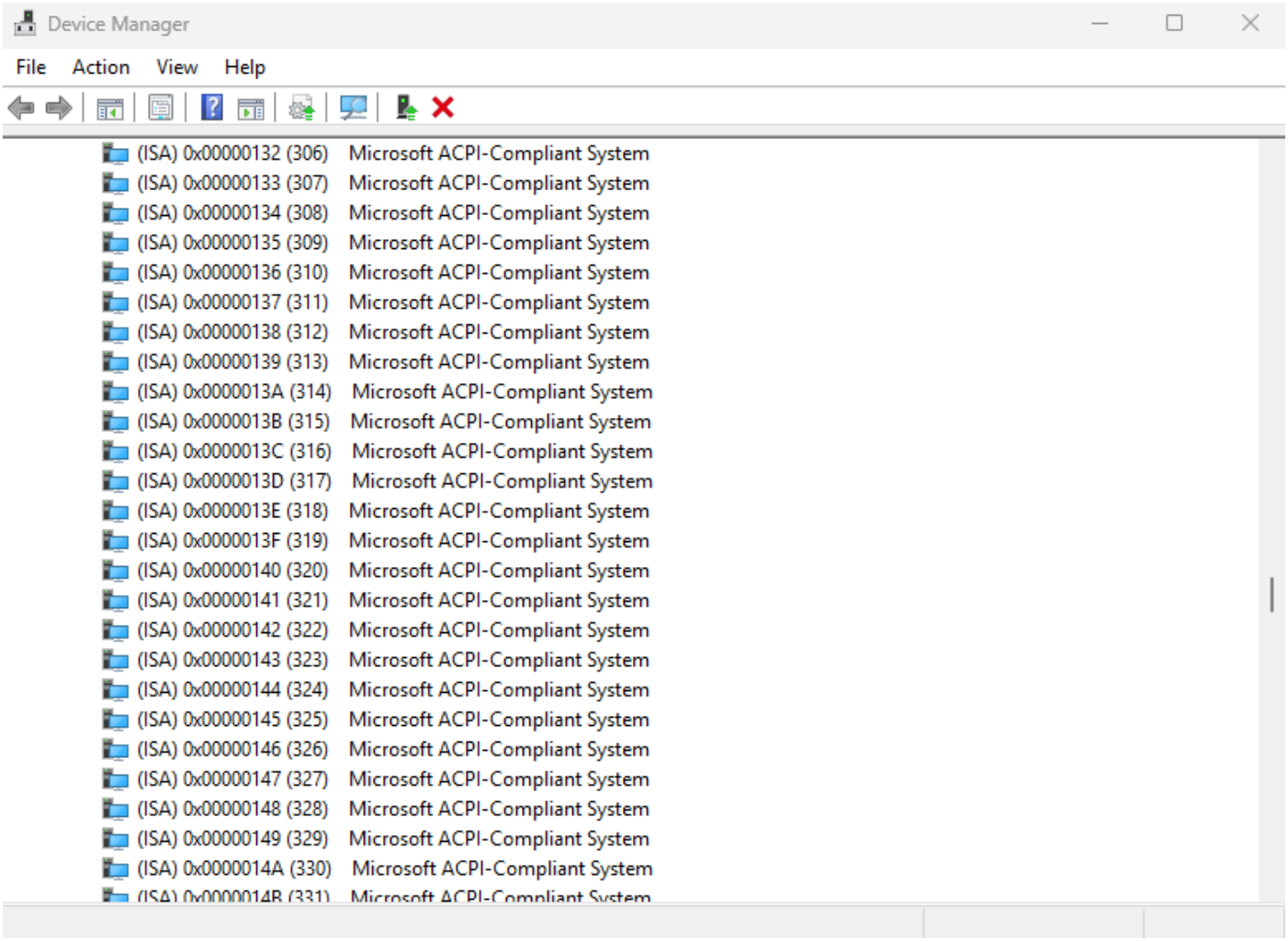

Device Manager
File
Action
View
Help
(ISA) 0x00000082 (130) Microsoft ACPI-Compliant System
(ISA) 0x00000083 (131) Microsoft ACPI-Compliant System
(ISA) 0x00000084 (132) Microsoft ACPI-Compliant System
(ISA) 0x00000085 (133) Microsoft ACPI-Compliant System
(ISA) 0x00000086 (134) Microsoft ACPI-Compliant System
(ISA) 0x00000087 (135) Microsoft ACPI-Compliant System
(ISA) 0x00000088 (136) Microsoft ACPI-Compliant System
(ISA) 0x00000089 (137) Microsoft ACPI-Compliant System
(ISA) 0x0000008A (138) Microsoft ACPI-Compliant System
(ISA) 0x0000008B (139) Microsoft ACPI-Compliant System
(ISA) 0x0000008C (140) Microsoft ACPI-Compliant System
(ISA) 0x0000008D (141) Microsoft ACPI-Compliant System
(ISA) 0x0000008E (142) Microsoft ACPI-Compliant System
(ISA) 0x0000008F (143) Microsoft ACPI-Compliant System
(ISA) 0x00000090 (144) Microsoft ACPI-Compliant System
(ISA) 0x00000091 (145) Microsoft ACPI-Compliant System
(ISA) 0x00000092 (146) Microsoft ACPI-Compliant System
(ISA) 0x00000093 (147) Microsoft ACPI-Compliant System
(ISA) 0x00000094 (148) Microsoft ACPI-Compliant System
(ISA) 0x00000095 (149) Microsoft ACPI-Compliant System
(ISA) 0x00000096 (150) Microsoft ACPI-Compliant System
(ISA) 0x00000097 (151) Microsoft ACPI-Compliant System
(ISA) 0x00000098 (152) Microsoft ACPI-Compliant System
(ISA) 0x00000099 (153) Microsoft ACPI-Compliant System
(ISA) 0x0000009A (154) Microsoft ACPI-Compliant System

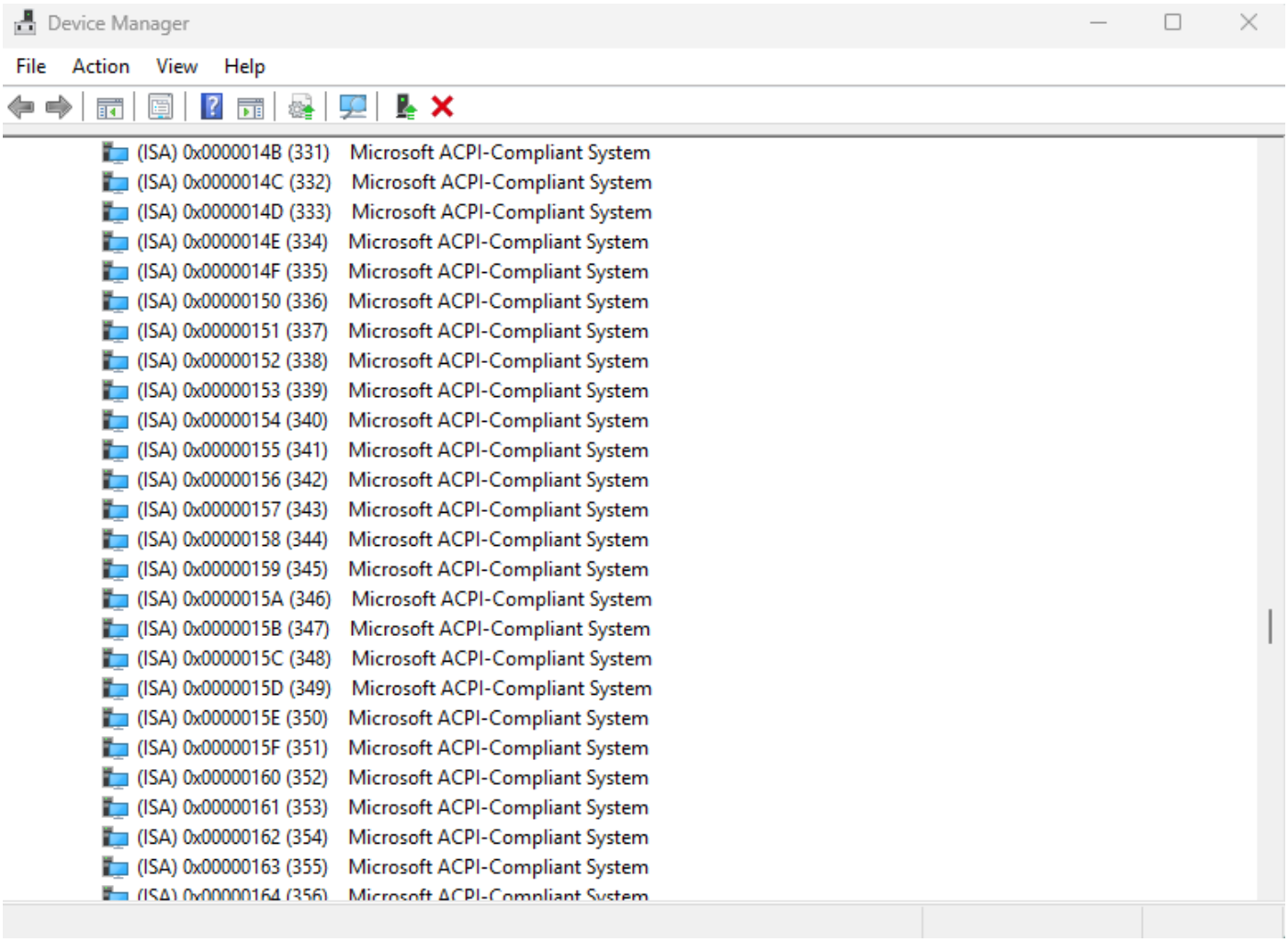

Device Manager
File Action View Help
(ISA) 0x0000009B (155) Microsoft ACPI-Compliant System
(ISA) 0x0000009C (156) Microsoft ACPI-Compliant System
(ISA) 0x0000009D (157) Microsoft ACPI-Compliant System
(ISA) 0x0000009E (158) Microsoft ACPI-Compliant System
(ISA) 0x0000009F (159) Microsoft ACPI-Compliant System
(ISA) 0x000000A0 (160) Microsoft ACPI-Compliant System
(ISA) 0x000000A1 (161) Microsoft ACPI-Compliant System
(ISA) 0x000000A2 (162) Microsoft ACPI-Compliant System
(ISA) 0x000000A3 (163) Microsoft ACPI-Compliant System
(ISA) 0x000000A4 (164) Microsoft ACPI-Compliant System
(ISA) 0x000000A5 (165) Microsoft ACPI-Compliant System
(ISA) 0x000000A6 (166) Microsoft ACPI-Compliant System
(ISA) 0x000000A7 (167) Microsoft ACPI-Compliant System
(ISA) 0x000000A8 (168) Microsoft ACPI-Compliant System
(ISA) 0x000000A9 (169) Microsoft ACPI-Compliant System
(ISA) 0x000000AA (170) Microsoft ACPI-Compliant System
(ISA) 0x000000AB (171) Microsoft ACPI-Compliant System
(ISA) 0x000000AC (172) Microsoft ACPI-Compliant System
(ISA) 0x000000AD (173) Microsoft ACPI-Compliant System
(ISA) 0x000000AE (174) Microsoft ACPI-Compliant System
(ISA) 0x000000AF (175) Microsoft ACPI-Compliant System
(ISA) 0x000000B0 (176) Microsoft ACPI-Compliant System
(ISA) 0x000000B1 (177) Microsoft ACPI-Compliant System
(ISA) 0x000000B2 (178) Microsoft ACPI-Compliant System
(ISA) 0x000000B3 (179) Microsoft ACPI-Compliant System

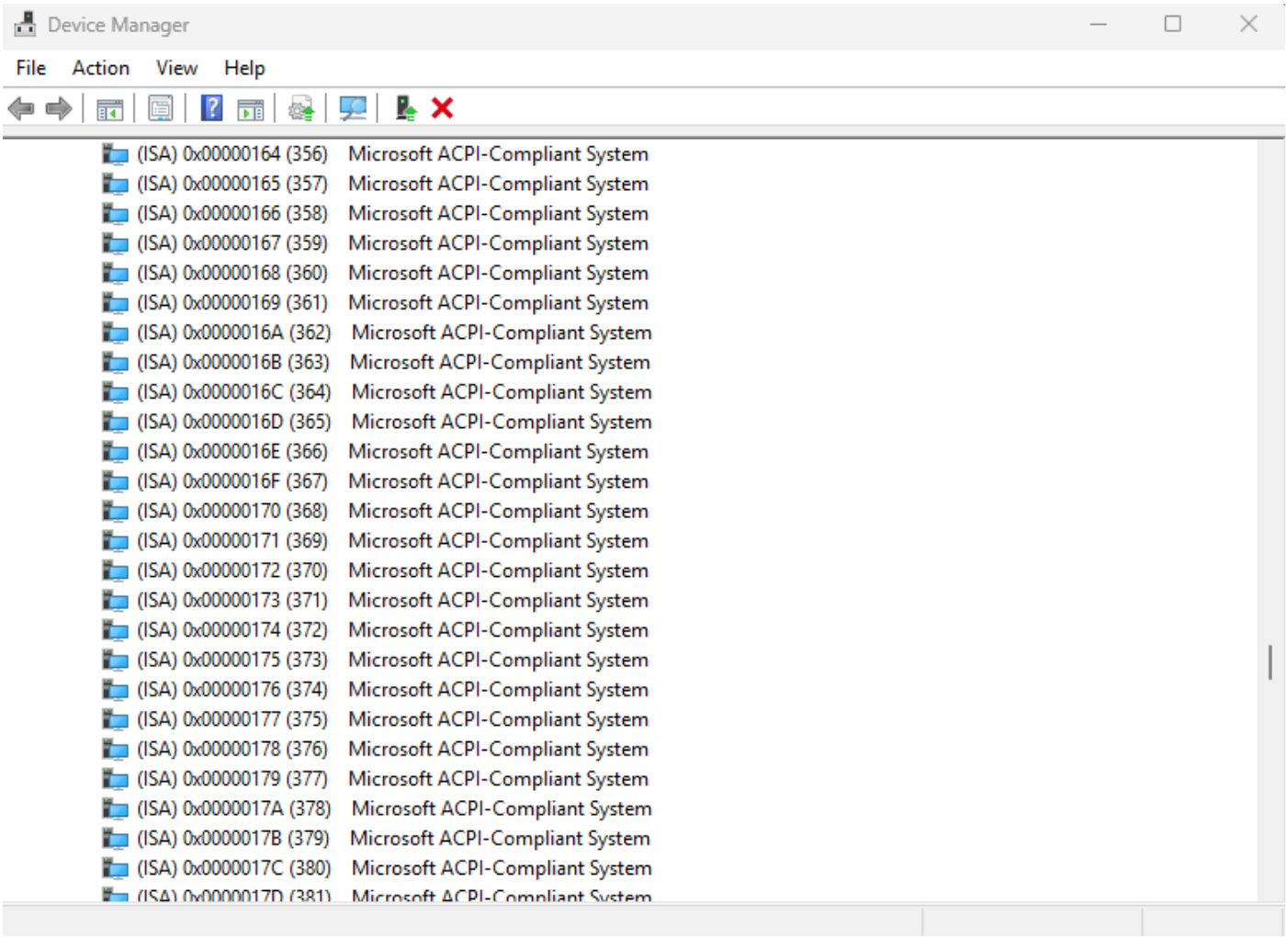

Device Manager
File
Action
View
Help
(ISA) 0x000000B4 (180) Microsoft ACPI-Compliant System
(ISA) 0x000000B5 (181) Microsoft ACPI-Compliant System
(ISA) 0x000000B6 (182) Microsoft ACPI-Compliant System
(ISA) 0x000000B7 (183) Microsoft ACPI-Compliant System
(ISA) 0x000000B8 (184) Microsoft ACPI-Compliant System
(ISA) 0x000000B9 (185) Microsoft ACPI-Compliant System
(ISA) 0x000000BA (186) Microsoft ACPI-Compliant System
(ISA) 0x000000BB (187) Microsoft ACPI-Compliant System
(ISA) 0x000000BC (188) Microsoft ACPI-Compliant System
(ISA) 0x000000BD (189) Microsoft ACPI-Compliant System
(ISA) 0x000000BE (190) Microsoft ACPI-Compliant System
(ISA) 0x000000BF (191) Microsoft ACPI-Compliant System
(ISA) 0x000000C0 (192) Microsoft ACPI-Compliant System
(ISA) 0x000000C1 (193) Microsoft ACPI-Compliant System
(ISA) 0x000000C2 (194) Microsoft ACPI-Compliant System
(ISA) 0x000000C3 (195) Microsoft ACPI-Compliant System
(ISA) 0x000000C4 (196) Microsoft ACPI-Compliant System
(ISA) 0x000000C5 (197) Microsoft ACPI-Compliant System
(ISA) 0x000000C6 (198) Microsoft ACPI-Compliant System
(ISA) 0x000000C7 (199) Microsoft ACPI-Compliant System
(ISA) 0x000000C8 (200) Microsoft ACPI-Compliant System
(ISA) 0x000000C9 (201) Microsoft ACPI-Compliant System
(ISA) 0x000000CA (202) Microsoft ACPI-Compliant System
(ISA) 0x000000CB (203) Microsoft ACPI-Compliant System
(ISA) 0x000000CC (204) Microsoft ACPI-Compliant System

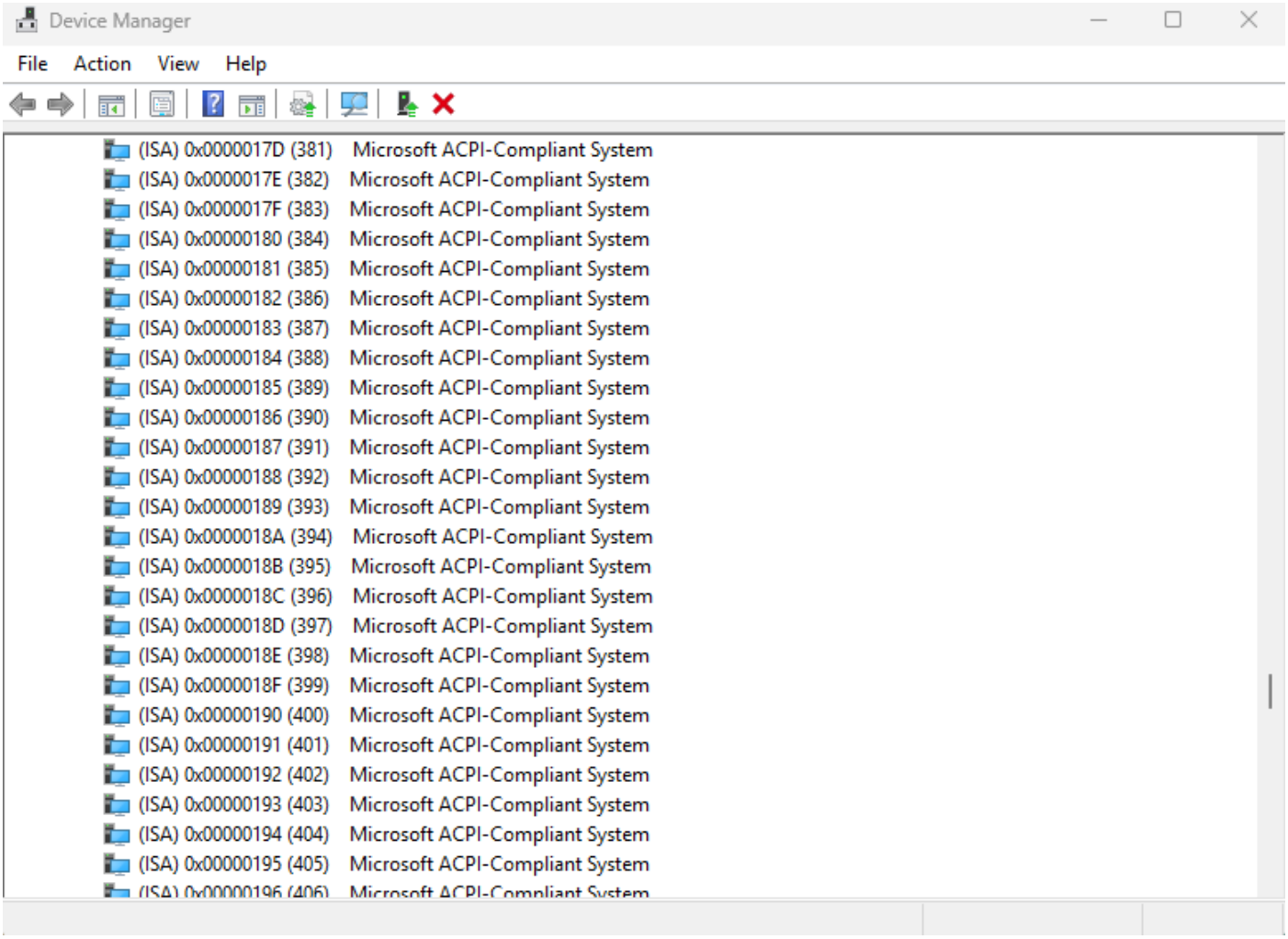

Device Manager
File
Action
View
Help
(ISA) 0x00000100 (256) Microsoft ACPI-Compliant System
(ISA) 0x00000101 (257) Microsoft ACPI-Compliant System
(ISA) 0x00000102 (258) Microsoft ACPI-Compliant System
(ISA) 0x00000103 (259) Microsoft ACPI-Compliant System
(ISA) 0x00000104 (260) Microsoft ACPI-Compliant System
(ISA) 0x00000105 (261) Microsoft ACPI-Compliant System
(ISA) 0x00000106 (262) Microsoft ACPI-Compliant System
(ISA) 0x00000107 (263) Microsoft ACPI-Compliant System
(ISA) 0x00000108 (264) Microsoft ACPI-Compliant System
(ISA) 0x00000109 (265) Microsoft ACPI-Compliant System
(ISA) 0x0000010A (266) Microsoft ACPI-Compliant System
(ISA) 0x0000010B (267) Microsoft ACPI-Compliant System
(ISA) 0x0000010C (268) Microsoft ACPI-Compliant System
(ISA) 0x0000010D (269) Microsoft ACPI-Compliant System
(ISA) 0x0000010E (270) Microsoft ACPI-Compliant System
(ISA) 0x0000010F (271) Microsoft ACPI-Compliant System
(ISA) 0x00000110 (272) Microsoft ACPI-Compliant System
(ISA) 0x00000111 (273) Microsoft ACPI-Compliant System
(ISA) 0x00000112 (274) Microsoft ACPI-Compliant System
(ISA) 0x00000113 (275) Microsoft ACPI-Compliant System
(ISA) 0x00000114 (276) Microsoft ACPI-Compliant System
(ISA) 0x00000115 (277) Microsoft ACPI-Compliant System
(ISA) 0x00000116 (278) Microsoft ACPI-Compliant System
(ISA) 0x00000117 (279) Microsoft ACPI-Compliant System
(ISA) 0x00000118 (280) Microsoft ACPI-Compliant System

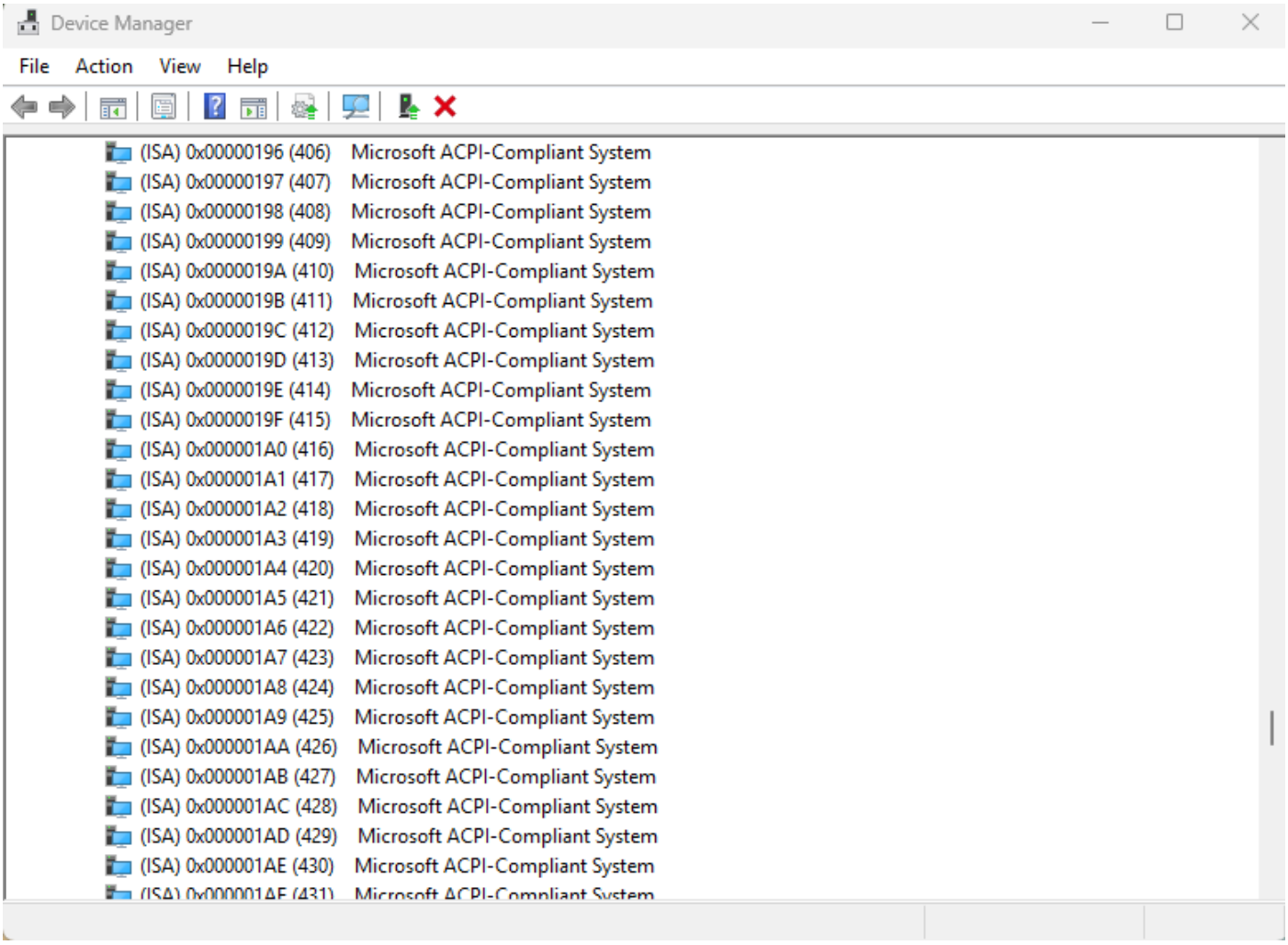

Device Manager
File
Action
View
Help
(ISA) 0x00000119 (281) Microsoft ACPI-Compliant System
(ISA) 0x0000011A (282) Microsoft ACPI-Compliant System
(ISA) 0x0000011B (283) Microsoft ACPI-Compliant System
(ISA) 0x0000011C (284) Microsoft ACPI-Compliant System
(ISA) 0x0000011D (285) Microsoft ACPI-Compliant System
(ISA) 0x0000011E (286) Microsoft ACPI-Compliant System
(ISA) 0x0000011F (287) Microsoft ACPI-Compliant System
(ISA) 0x00000120 (288) Microsoft ACPI-Compliant System
(ISA) 0x00000121 (289) Microsoft ACPI-Compliant System
(ISA) 0x00000122 (290) Microsoft ACPI-Compliant System
(ISA) 0x00000123 (291) Microsoft ACPI-Compliant System
(ISA) 0x00000124 (292) Microsoft ACPI-Compliant System
(ISA) 0x00000125 (293) Microsoft ACPI-Compliant System
(ISA) 0x00000126 (294) Microsoft ACPI-Compliant System
(ISA) 0x00000127 (295) Microsoft ACPI-Compliant System
(ISA) 0x00000128 (296) Microsoft ACPI-Compliant System
(ISA) 0x00000129 (297) Microsoft ACPI-Compliant System
(ISA) 0x0000012A (298) Microsoft ACPI-Compliant System
(ISA) 0x0000012B (299) Microsoft ACPI-Compliant System
(ISA) 0x0000012C (300) Microsoft ACPI-Compliant System
(ISA) 0x0000012D (301) Microsoft ACPI-Compliant System
(ISA) 0x0000012E (302) Microsoft ACPI-Compliant System
(ISA) 0x0000012F (303) Microsoft ACPI-Compliant System
(ISA) 0x00000130 (304) Microsoft ACPI-Compliant System
(ISA) 0x00000131 (305) Microsoft ACPI-Compliant System

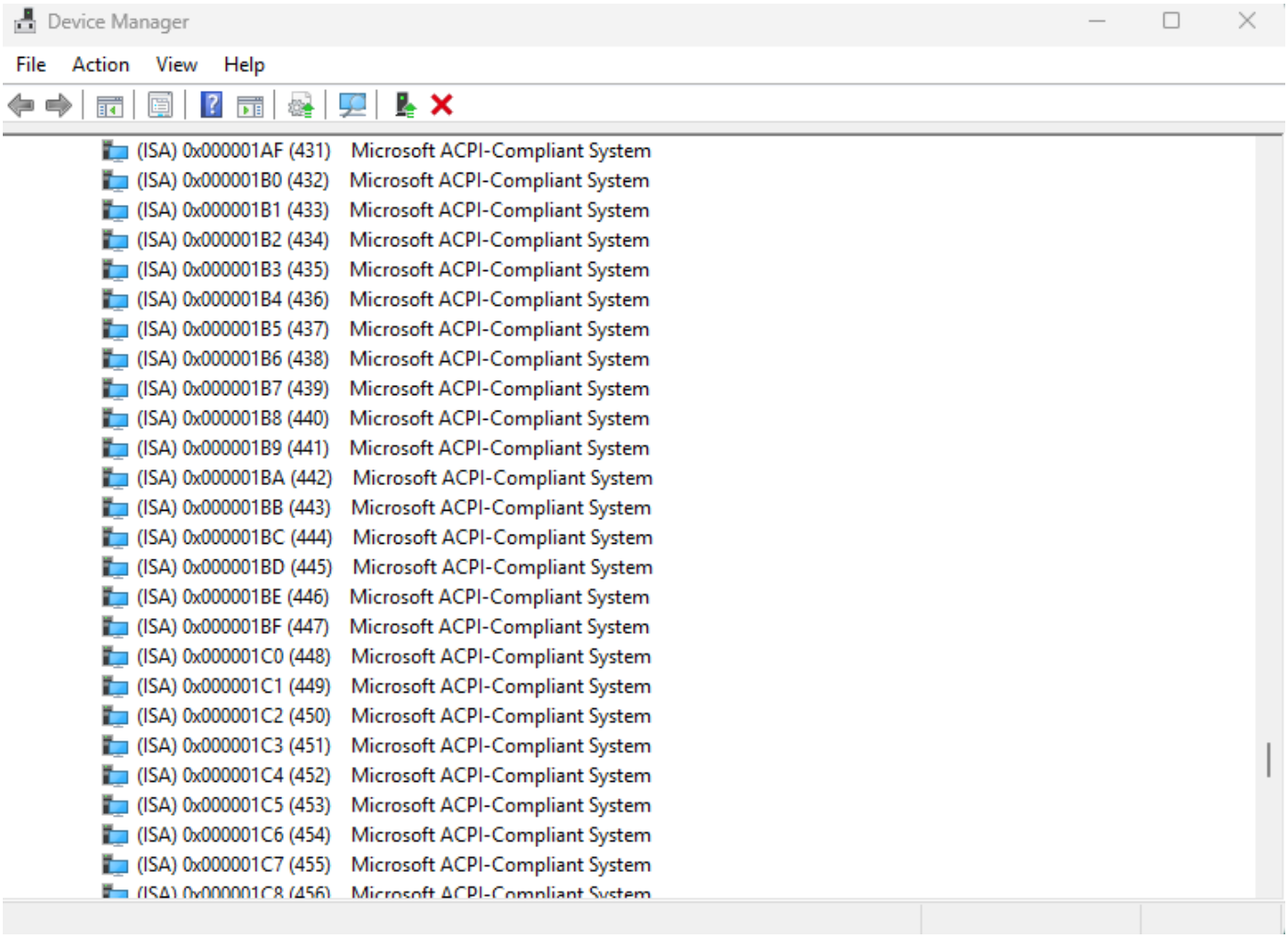

Device Manager
File
Action
View
Help
(ISA) 0x00000132 (306) Microsoft ACPI-Compliant System
(ISA) 0x00000133 (307) Microsoft ACPI-Compliant System
(ISA) 0x00000134 (308) Microsoft ACPI-Compliant System
(ISA) 0x00000135 (309) Microsoft ACPI-Compliant System
(ISA) 0x00000136 (310) Microsoft ACPI-Compliant System
(ISA) 0x00000137 (311) Microsoft ACPI-Compliant System
(ISA) 0x00000138 (312) Microsoft ACPI-Compliant System
(ISA) 0x00000139 (313) Microsoft ACPI-Compliant System
(ISA) 0x0000013A (314) Microsoft ACPI-Compliant System
(ISA) 0x0000013B (315) Microsoft ACPI-Compliant System
(ISA) 0x0000013C (316) Microsoft ACPI-Compliant System
(ISA) 0x0000013D (317) Microsoft ACPI-Compliant System
(ISA) 0x0000013E (318) Microsoft ACPI-Compliant System
(ISA) 0x0000013F (319) Microsoft ACPI-Compliant System
(ISA) 0x00000140 (320) Microsoft ACPI-Compliant System
(ISA) 0x00000141 (321) Microsoft ACPI-Compliant System
(ISA) 0x00000142 (322) Microsoft ACPI-Compliant System
(ISA) 0x00000143 (323) Microsoft ACPI-Compliant System
(ISA) 0x00000144 (324) Microsoft ACPI-Compliant System
(ISA) 0x00000145 (325) Microsoft ACPI-Compliant System
(ISA) 0x00000146 (326) Microsoft ACPI-Compliant System
(ISA) 0x00000147 (327) Microsoft ACPI-Compliant System
(ISA) 0x00000148 (328) Microsoft ACPI-Compliant System
(ISA) 0x00000149 (329) Microsoft ACPI-Compliant System
(ISA) 0x0000014A (330) Microsoft ACPI-Compliant System

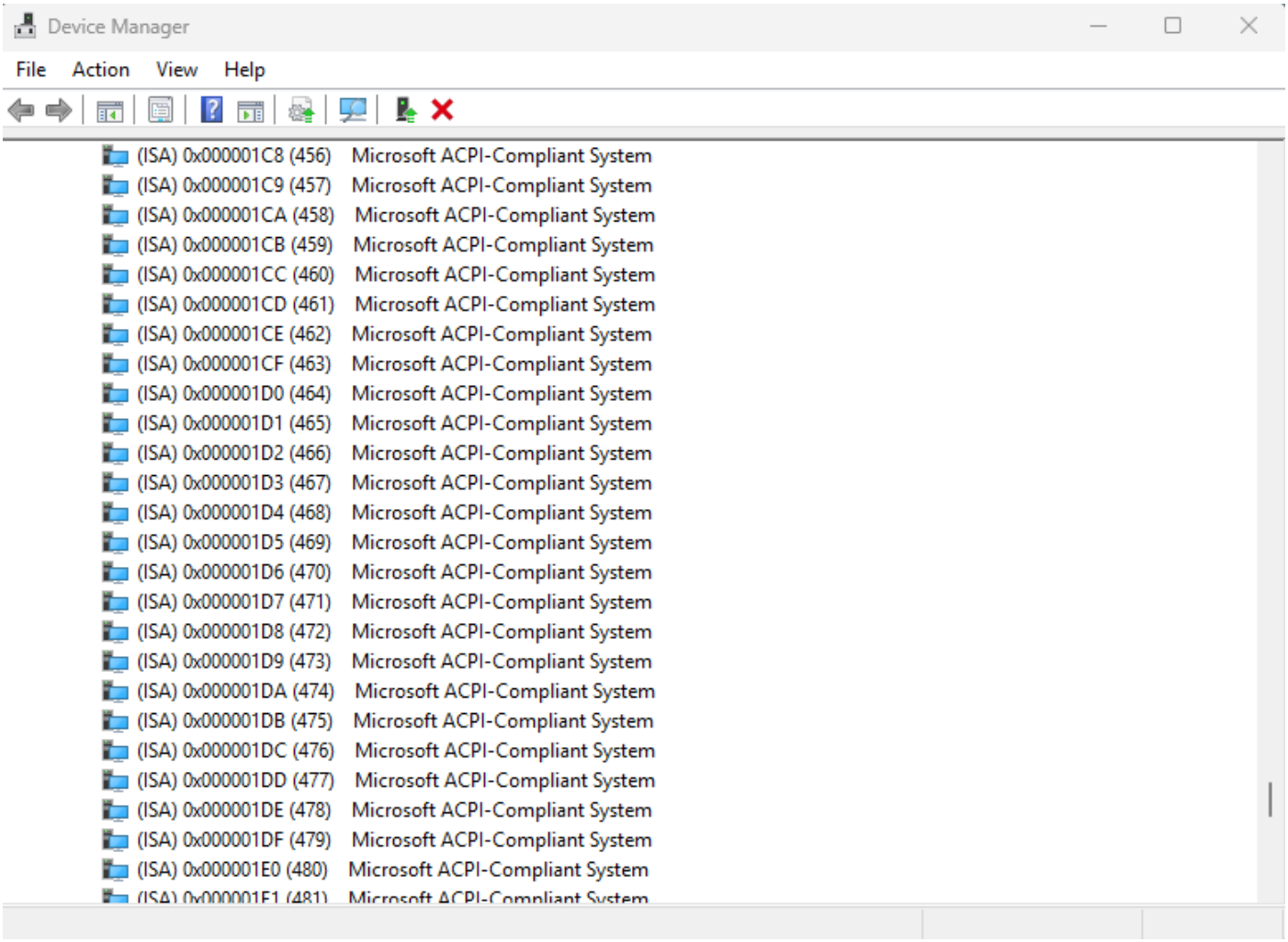

Device Manager
File Action View Help
(ISA) 0x0000014B (331) Microsoft ACPI-Compliant System
(ISA) 0x0000014C (332) Microsoft ACPI-Compliant System
(ISA) 0x0000014D (333) Microsoft ACPI-Compliant System
(ISA) 0x0000014E (334) Microsoft ACPI-Compliant System
(ISA) 0x0000014F (335) Microsoft ACPI-Compliant System
(ISA) 0x00000150 (336) Microsoft ACPI-Compliant System
(ISA) 0x00000151 (337) Microsoft ACPI-Compliant System
(ISA) 0x00000152 (338) Microsoft ACPI-Compliant System
(ISA) 0x00000153 (339) Microsoft ACPI-Compliant System
(ISA) 0x00000154 (340) Microsoft ACPI-Compliant System
(ISA) 0x00000155 (341) Microsoft ACPI-Compliant System
(ISA) 0x00000156 (342) Microsoft ACPI-Compliant System
(ISA) 0x00000157 (343) Microsoft ACPI-Compliant System
(ISA) 0x00000158 (344) Microsoft ACPI-Compliant System
(ISA) 0x00000159 (345) Microsoft ACPI-Compliant System
(ISA) 0x0000015A (346) Microsoft ACPI-Compliant System
(ISA) 0x0000015B (347) Microsoft ACPI-Compliant System
(ISA) 0x0000015C (348) Microsoft ACPI-Compliant System
(ISA) 0x0000015D (349) Microsoft ACPI-Compliant System
(ISA) 0x0000015E (350) Microsoft ACPI-Compliant System
(ISA) 0x0000015F (351) Microsoft ACPI-Compliant System
(ISA) 0x00000160 (352) Microsoft ACPI-Compliant System
(ISA) 0x00000161 (353) Microsoft ACPI-Compliant System
(ISA) 0x00000162 (354) Microsoft ACPI-Compliant System
(ISA) 0x00000163 (355) Microsoft ACPI-Compliant System

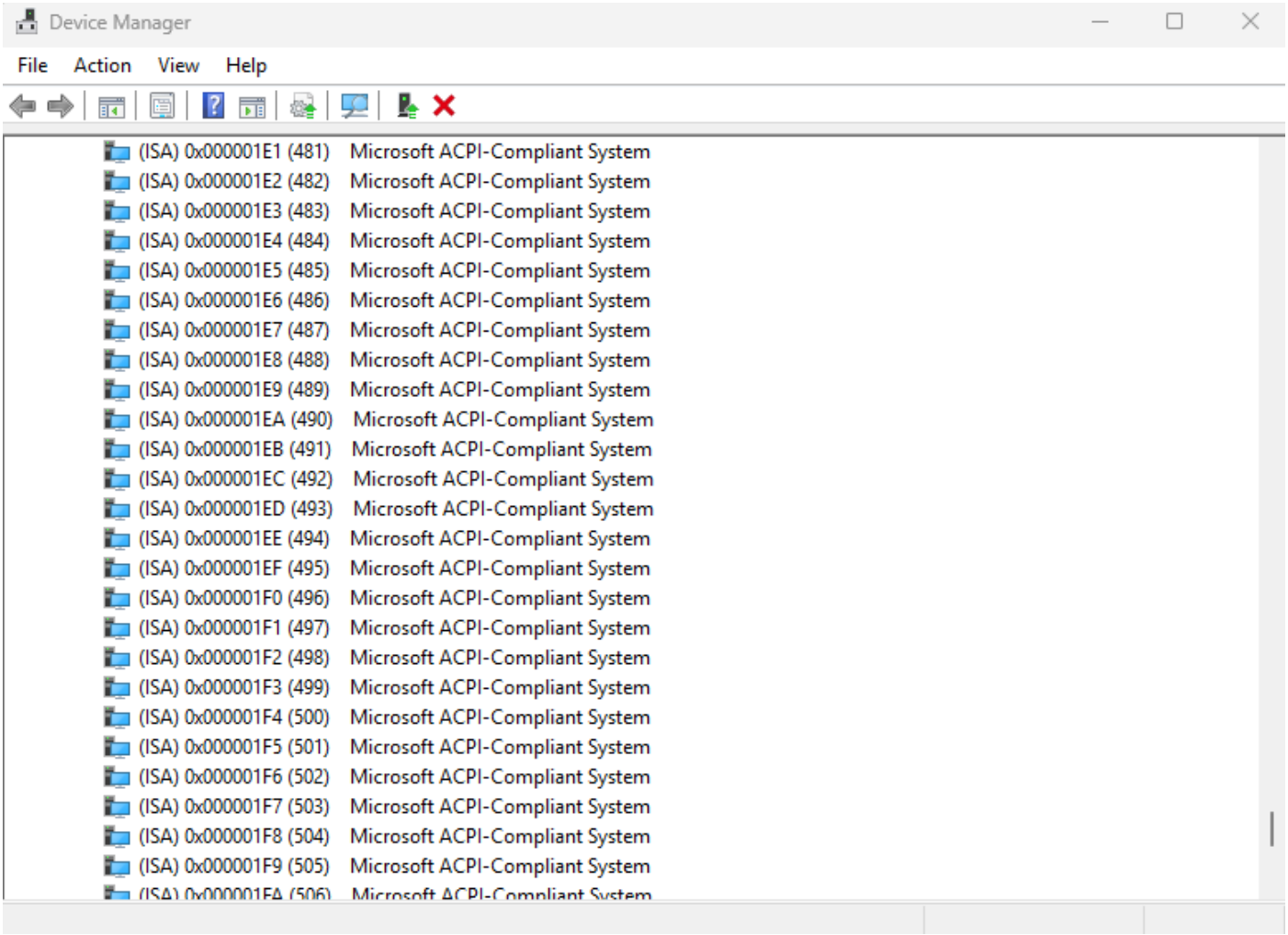

Device Manager
File Action View Help
(ISA) 0x00000164 (356) Microsoft ACPI-Compliant System
(ISA) 0x00000165 (357) Microsoft ACPI-Compliant System
(ISA) 0x00000166 (358) Microsoft ACPI-Compliant System
(ISA) 0x00000167 (359) Microsoft ACPI-Compliant System
(ISA) 0x00000168 (360) Microsoft ACPI-Compliant System
(ISA) 0x00000169 (361) Microsoft ACPI-Compliant System
(ISA) 0x0000016A (362) Microsoft ACPI-Compliant System
(ISA) 0x0000016B (363) Microsoft ACPI-Compliant System
(ISA) 0x0000016C (364) Microsoft ACPI-Compliant System
(ISA) 0x0000016D (365) Microsoft ACPI-Compliant System
(ISA) 0x0000016E (366) Microsoft ACPI-Compliant System
(ISA) 0x0000016F (367) Microsoft ACPI-Compliant System
(ISA) 0x00000170 (368) Microsoft ACPI-Compliant System
(ISA) 0x00000171 (369) Microsoft ACPI-Compliant System
(ISA) 0x00000172 (370) Microsoft ACPI-Compliant System
(ISA) 0x00000173 (371) Microsoft ACPI-Compliant System
(ISA) 0x00000174 (372) Microsoft ACPI-Compliant System
(ISA) 0x00000175 (373) Microsoft ACPI-Compliant System
(ISA) 0x00000176 (374) Microsoft ACPI-Compliant System
(ISA) 0x00000177 (375) Microsoft ACPI-Compliant System
(ISA) 0x00000178 (376) Microsoft ACPI-Compliant System
(ISA) 0x00000179 (377) Microsoft ACPI-Compliant System
(ISA) 0x0000017A (378) Microsoft ACPI-Compliant System
(ISA) 0x0000017B (379) Microsoft ACPI-Compliant System
(ISA) 0x0000017C (380) Microsoft ACPI-Compliant System

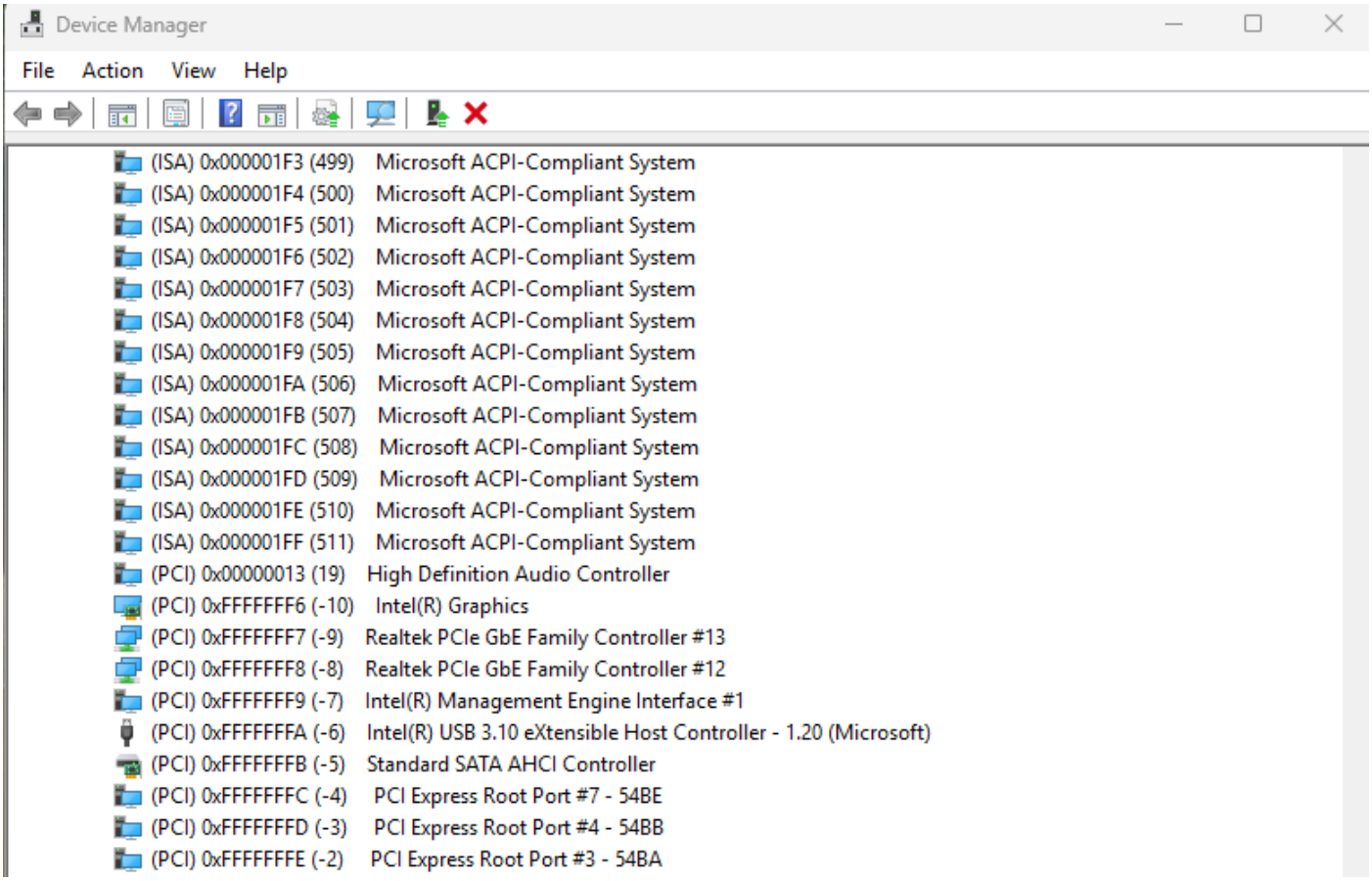

Device Manager
File
Action
View
Help
(ISA) 0x0000017D (381) Microsoft ACPI-Compliant System
(ISA) 0x0000017E (382) Microsoft ACPI-Compliant System
(ISA) 0x0000017F (383) Microsoft ACPI-Compliant System
(ISA) 0x00000180 (384) Microsoft ACPI-Compliant System
(ISA) 0x00000181 (385) Microsoft ACPI-Compliant System
(ISA) 0x00000182 (386) Microsoft ACPI-Compliant System
(ISA) 0x00000183 (387) Microsoft ACPI-Compliant System
(ISA) 0x00000184 (388) Microsoft ACPI-Compliant System
(ISA) 0x00000185 (389) Microsoft ACPI-Compliant System
(ISA) 0x00000186 (390) Microsoft ACPI-Compliant System
(ISA) 0x00000187 (391) Microsoft ACPI-Compliant System
(ISA) 0x00000188 (392) Microsoft ACPI-Compliant System
(ISA) 0x00000189 (393) Microsoft ACPI-Compliant System
(ISA) 0x0000018A (394) Microsoft ACPI-Compliant System
(ISA) 0x0000018B (395) Microsoft ACPI-Compliant System
(ISA) 0x0000018C (396) Microsoft ACPI-Compliant System
(ISA) 0x0000018D (397) Microsoft ACPI-Compliant System
(ISA) 0x0000018E (398) Microsoft ACPI-Compliant System
(ISA) 0x0000018F (399) Microsoft ACPI-Compliant System
(ISA) 0x00000190 (400) Microsoft ACPI-Compliant System
(ISA) 0x00000191 (401) Microsoft ACPI-Compliant System
(ISA) 0x00000192 (402) Microsoft ACPI-Compliant System
(ISA) 0x00000193 (403) Microsoft ACPI-Compliant System
(ISA) 0x00000194 (404) Microsoft ACPI-Compliant System
(ISA) 0x00000195 (405) Microsoft ACPI-Compliant System


Device Manager
File
Action
View
Help
(ISA) 0x00000196 (406) Microsoft ACPI-Compliant System
(ISA) 0x00000197 (407) Microsoft ACPI-Compliant System
(ISA) 0x00000198 (408) Microsoft ACPI-Compliant System
(ISA) 0x00000199 (409) Microsoft ACPI-Compliant System
(ISA) 0x0000019A (410) Microsoft ACPI-Compliant System
(ISA) 0x0000019B (411) Microsoft ACPI-Compliant System
(ISA) 0x0000019C (412) Microsoft ACPI-Compliant System
(ISA) 0x0000019D (413) Microsoft ACPI-Compliant System
(ISA) 0x0000019E (414) Microsoft ACPI-Compliant System
(ISA) 0x0000019F (415) Microsoft ACPI-Compliant System
(ISA) 0x000001A0 (416) Microsoft ACPI-Compliant System
(ISA) 0x000001A1 (417) Microsoft ACPI-Compliant System
(ISA) 0x000001A2 (418) Microsoft ACPI-Compliant System
(ISA) 0x000001A3 (419) Microsoft ACPI-Compliant System
(ISA) 0x000001A4 (420) Microsoft ACPI-Compliant System
(ISA) 0x000001A5 (421) Microsoft ACPI-Compliant System
(ISA) 0x000001A6 (422) Microsoft ACPI-Compliant System
(ISA) 0x000001A7 (423) Microsoft ACPI-Compliant System
(ISA) 0x000001A8 (424) Microsoft ACPI-Compliant System
(ISA) 0x000001A9 (425) Microsoft ACPI-Compliant System
(ISA) 0x000001AA (426) Microsoft ACPI-Compliant System
(ISA) 0x000001AB (427) Microsoft ACPI-Compliant System
(ISA) 0x000001AC (428) Microsoft ACPI-Compliant System
(ISA) 0x000001AD (429) Microsoft ACPI-Compliant System
(ISA) 0x000001AE (430) Microsoft ACPI-Compliant System


Device Manager
File Action View Help
(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


Device Manager
File
Action
View
Help
(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


Device Manager
File
Action
View
Help
(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


Device Manager
File Action View Help
(ISA) 0x000001F3 (499) Microsoft ACPI-Compliant System
(ISA) 0x000001F4 (500) Microsoft ACPI-Compliant System
(ISA) 0x000001F5 (501) Microsoft ACPI-Compliant System
(ISA) 0x000001F6 (502) Microsoft ACPI-Compliant System
(ISA) 0x000001F7 (503) Microsoft ACPI-Compliant System
(ISA) 0x000001F8 (504) Microsoft ACPI-Compliant System
(ISA) 0x000001F9 (505) Microsoft ACPI-Compliant System
(ISA) 0x000001FA (506) Microsoft ACPI-Compliant System
(ISA) 0x000001FB (507) Microsoft ACPI-Compliant System
(ISA) 0x000001FC (508) Microsoft ACPI-Compliant System
(ISA) 0x000001FD (509) Microsoft ACPI-Compliant System
(ISA) 0x000001FE (510) Microsoft ACPI-Compliant System
(ISA) 0x000001FF (511) Microsoft ACPI-Compliant System
(PCI) 0x00000013 (19) High Definition Audio Controller
(PCI) 0xFFFFFFF6 (-10) Intel(R) Graphics
(PCI) 0xFFFFFFF7 (-9) Realtek PCIe GbE Family Controller #13
(PCI) 0xFFFFFFF8 (-8) Realtek PCIe GbE Family Controller #12
(PCI) 0xFFFFFFF9 (-7) Intel(R) Management Engine Interface #1
(PCI) 0xFFFFFFFA (-6) Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
(PCI) 0xFFFFFFFB (-5) Standard SATA AHCI Controller
(PCI) 0xFFFFFFFC (-4) PCI Express Root Port #7 - 54BE
(PCI) 0xFFFFFFFD (-3) PCI Express Root Port #4 - 54BB
(PCI) 0xFFFFFFFE (-2) PCI Express Root Port #3 - 54BA