



OXY5740A

Intel® 7th Gen. Kaby Lake-H Core™ i7

Processor, Stackable with PCIe/104 & FPE

Expansion, Extended Temp. -40 to 85°C



User's Manual

Revision Date: November 11 2019

Safety Information

Electrical safety

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

Operation safety

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

Statement

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- All trademarks are the properties of the respective owners.
- All product specifications are subject to change without prior notice.

Revision History

Revision	Date (dd.mm.yyyy)	Changes
V1.0	11.11.2019	Initial Release

Packing list

- OXY5740A EBX
- CD (Driver + user's manual)
- Optional Accessories
 - 1 x terminal block
 - [Optional] Cable kit for OXY5740A: 1 x SATA, 1 x SATA power, 1 x COM



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

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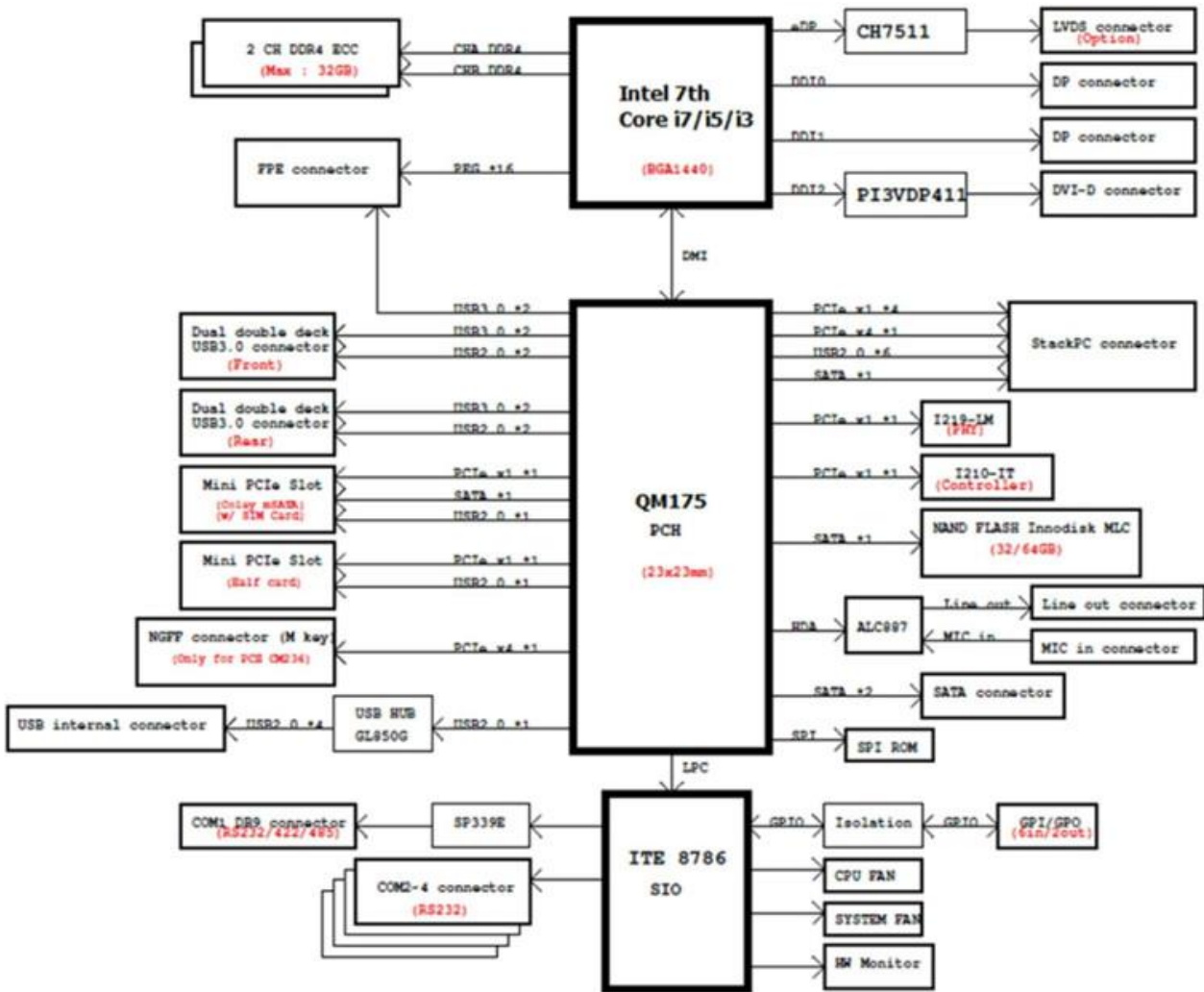
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Chapter 1: Product Information

1.1 Block Diagram



1.2 Key Features

System	
CPU	Intel® Kaby Lake-H Core™ Processor Intel® Core™ i7-7820QE Processor (4 Cores/8 Threads, 8M Cache, up to 3.70GHz), 45W
Chipset	Intel® QM175
Memory Type	1 x SO-DIMM up to 32GB
NAND Flash	64GB SATA SSD onboard
BIOS	AMI® UEFI BIOS
Watchdog	1-255 sec. or 1-255 min. software programmable, can generate system reset
Expansion Slot	StackPC + FPE 1 x Half-size mPCIe 1 x Full-size mPCIe/mSATA
Display	
Chipset	Intel® HD Graphics
Display Port	2, Max resolution up to 3840 x 2160
DVI-D	1, Max resolution up to 2048 x 1536
LVDS	Dual channel 24bit LVDS
Audio	
Codec	Realtek ALC888S
Ethernet	
Chipset	1 x Intel® I210-IT , 1 x Intel® I219-LM GbE LAN (support 10/100/1000 Mbps)
WOL	Yes
Boot from LAN	Yes for PXE
External I/O	
Display Port	2
DVI-D	1
Ethernet	2 x RJ45
USB 3.0	4
Audio Jack	1 x Mic-in, 1 x Line-out
COM	1 x RS-232/422/485 (1 with 5V/12V Selectable)
Internal I/O	
SATAIII	2(0,1 RAID)
COM	3 x RS-232 (1 with 5V/12V Selectable)
USB 2.0	4
SIM card holder	1
DIO	8bit, 6-in / 2-out

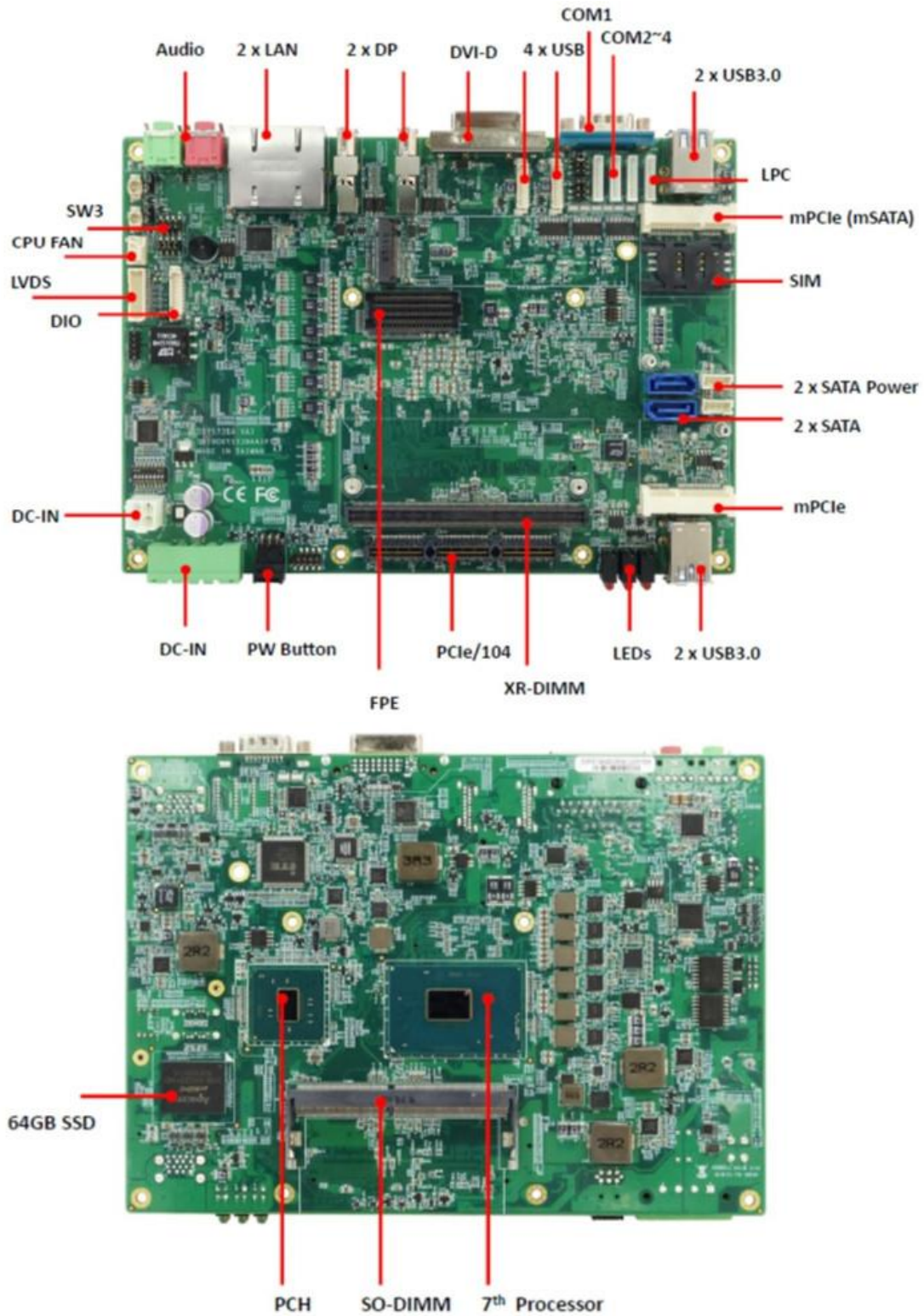
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LPC	1
LVDS	1
Mechanical and Environment	
Form Factor	EBX
Power Type	DC-IN 12V
Dimension	203mm x 146mm
Operating Temp.	-40 to 85°C
Storage Temp	-40 to 85°C
Relative Humidity	10% to 90%, non-condensing
Standard Compliance	
Standard Compliance	CE/FCC
OS	
OS Support	Windows®10 64bit , Linux(Support by request)

***All specifications and photos are subject to change without notice.**

1.3 Board Placement



Chapter 2: Jumpers and Connectors

2.1 Jumpers and connectors list

Label	Function
BAT1	BATTERY connector
DIMM0	DDR4 SO DIMM Socket
DIMM1	DDR4 XR DIMM Socket
CN19	LVDS CONNECTOR
MCARD1	Mini PCIE Card Slot<Full size Co-lay mSATA>
JP14	mSATA and mPCIE selection
MCARD2	Mini PCIE Card Slot (Half Size)
CN1/CN3	Serial ATA Connectors
CN2/CN4	SATA POWER
LAN1	INTEL I219LM
LAN2	INTEL I210IT
CN20/CN21	USB2.0 (Total 4 Port)
CN8	USB3.0 x 2
CN9	USB3.0 x 2
CN6	Audio Jacks Connector (MIC-In)
CN7	Audio Jacks Connector (Line-Out)
CN17	Digital I/O Box Head
CN10	LPC connector (Update BIOS)
DP1	DISPLAY PORT
DP2	DISPLAY PORT
DVI1	DVI-D
SIM_CARD1	SIM card socket
JP4	COM1 +12/+5V selection
JP5	COM2 +12/+5V selection
COM1	RS232/422/485 with 5V/12V selectable
COM2	RS232 with 5V/12V selectable
COM3	RS232
COM4	RS232
DC_JACK1	ATX12V DC connector

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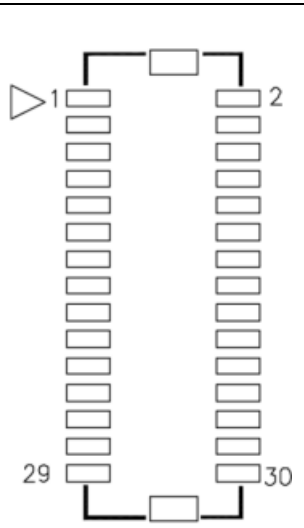
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CN22	4P DC Terminal Block connector
CPU FAN	CPU FAN CONNECTOR
FPE1	StackPC FPE Top Connector
CON_A1	StackPC
LED1	LAN1 LED STATUS
LED2	LAN2 LED STATUS
LED3	POWER/HDD LED
SW1	POWER BUTTON
CN18	LVDS POWER BOX HEADER
SW3	LVDS Resolution selection
FP1	Front Panel
FP2	LAN LED

2.2 Jumper Settings

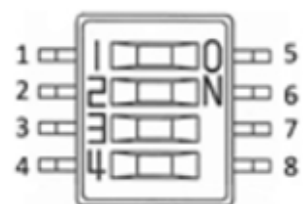
CN2: LVDS Connector

PIN	DEFINITION	PIN	DEFINITION
1	LVDS_BCLK	2	GND
3	LVDS_BCLK#	4	LVDS_A3
5	GND	6	LVDS_A3#
7	LVDS_B3	8	GND
9	LVDS_B3#	10	LVDS_ACLK
11	LVDS_B2	12	LVDS_ACLK #
13	LVDS_B2#	14	GND
15	LVDS_B1	16	LVDS_A2
17	LVDS_B1#	18	LVDS_A2#
19	LVDS_B0	20	LVDS_A1
21	LVDS_B0#	22	LVDS_A1#
23	GND	24	LVDS_A0
25	LVDS_DCC_SC	26	LVDS_A0#
27	LVDS_DCC_SD	28	GND
29	+VDD_LVDS	30	+VDD_LVDS

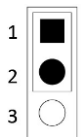
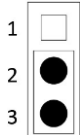


SW3: LVDS Resolution select

SW3				
1	2	3	4	DEFINITION
on	on	on	on	800*600/18bit (single)
off	on	on	on	1024*768/18bit (single)
on	off	on	on	1024*768/24bit (single)
off	off	on	on	1280*800/18bit(single)
on	on	off	on	1280*1024/24bit (dual)
off	on	off	on	1366*768/24bit(single)
on	off	off	on	1440*900/24bit (dual)
off	off	off	on	1920*1080/24bit (dual)



JP3: LVDS_VDD select

Jumper	Function description	Setting
1-2	3.3V	
2-3	5V	

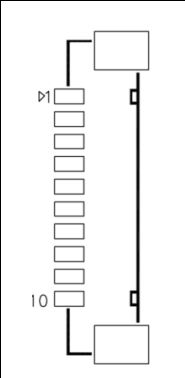
Default setting: 2-3

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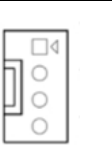
CN18: Inverter connector

PIN	DEFINITION
1	12V
2	12V
3	12V
4	5VS
5	5VS
6	GND
7	GND
8	BL_EN
9	LVDS_BKL_CTRL_R
10	GND



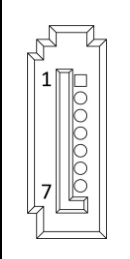
CPU FAN: CPU FAN Connector

PIN	DEFINITION
1	CPUFAN_PWN
2	CPUFAN_IO
3	CPUFAN_VCC
4	GND



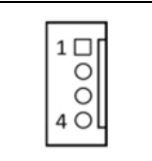
CN1/CN3: Serial SATA Connectors

PIN	DEFINITION
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND



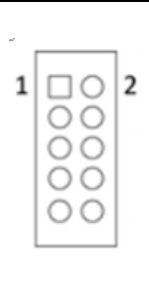
CN2/CN4: SATA POWER Connector

PIN	DEFINITION
1	12V
2	GND
3	GND
4	5VS



CN17: Digital I/O Box Head



PIN	DEFINITION	PIN	DEFINITION
1	VCC	2	GND
3	DI_0	4	DI_1
5	DI_2	6	DI_3
7	DI_4	8	DI_5
9	DO_0	10	DO_1



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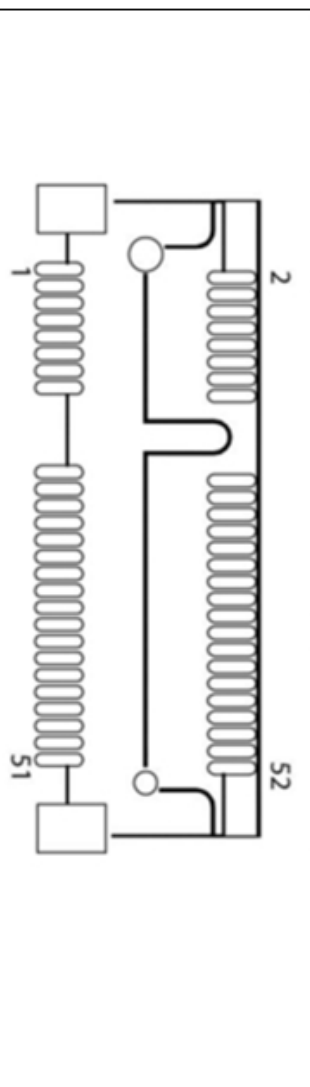
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JP14: MCARD1 mSATA and mPCIe selection

Jumper	Function description	Setting
1-2	mPCIe	
2-3	mSATA	
Default setting: 1-2		

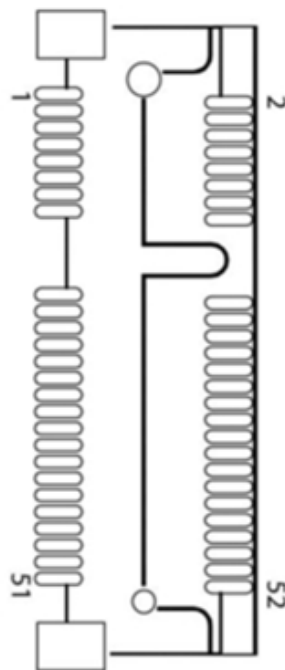
MCARD1: Mini PCIE Card Slot<COLAY M SATA>

PIN	DEFINITION	PIN	DEFINITION
1	WAKE#	2	3.3VAUX
3	COEX1	4	GND
5	COEX2	6	1.5V
7	CLKREQ#	8	UIM_PWR
9	GND	10	UIM_DATA
11	REFCLK-	12	UIM_CLK
13	REFCLK+	14	UIM_RESET
15	GND	16	UIM_VPP
17	Reserved	18	GND
19	Reserved	20	W_Disable#
21	GND	22	PERST#
23	PERn0	24	+3.3Vaux
25	PERp0	26	GND
27	GND	28	1.5V
29	GND	30	SMB_CLK
31	PETn0	32	SMB_DATA
33	PETp0	34	GND
35	GND	36	USB_D-
37	GND	38	USB_D+
39	+3.3VAUX	40	GND
41	+3.3VAUX	42	LED_WWAN#
43	GND	44	LED_WLAN#
45	Reserved	46	LED_WPAN#
47	Reserved	48	1.5V
49	Reserved	50	GND
51	Reserved	52	3.3VAUX



MCARD2: Mini PCIE Card Slot

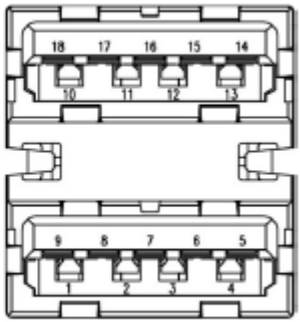
PIN	DEFINITION	PIN	DEFINITION
1	WAKE#	2	3.3V
3	Reserved	4	GND
5	Reserved	6	1.5V
7	CLKREQ#	8	UIM_PWR
9	GND	10	UIM_DATA
11	REFCLK-	12	UIM_CLK
13	REFCLK+	14	UIM_RESET
15	GND	16	UIM_VPP
17	Reserved	18	GND
19	Reserved	20	W_Disable#
21	GND	22	PERST#
23	PERn0	24	3.3Vaux
25	PERp0	26	GND
27	GND	28	1.5V
29	GND	30	SMB_CLK
31	PETn0	32	SMB_DATA
33	PETp0	34	GND
35	GND	36	USB_D-
37	Reserved	38	USB_D+
39	Reserved	40	GND
41	Reserved	42	LED_WWAN#
43	Reserved	44	LED_WLAN#
45	Reserved	46	LED_WPAN#
47	Reserved	48	1.5V
49	Reserved	50	GND
51	Reserved	52	3.3V



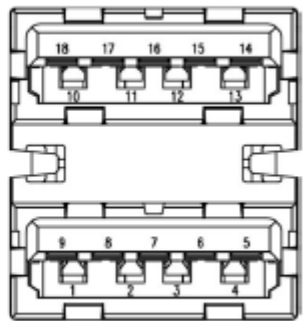
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CN8: USB3.0 * 2

LOWER USB		UPPER USB		
PIN	DEFINITION	PIN	DEFINITION	
1	USB_VCC0	10	USB_VCC1	
2	USBD2-	11	USBD3-	
3	USBD2+	12	USBD3+	
4	GND	13	GND	
5	USB_SSRX1N_C	14	USB_SSRX2N_C	
6	USB_SSRX1P_C	15	USB_SSRX2P_C	
7	GND	16	GND	
8	USB3TN1	17	USB3TN2	
9	USB3TP1	18	USB3TP2	


CN9: USB3.0 * 2

LOWER USB		UPPER USB		
PIN	DEFINITION	PIN	DEFINITION	
1	USB_VCC0	10	USB_VCC1	
2	USBD2-	11	USBD3-	
3	USBD2+	12	USBD3+	
4	GND	13	GND	
5	USB_SSRX1N_C	14	USB_SSRX2N_C	
6	USB_SSRX1P_C	15	USB_SSRX2P_C	
7	GND	16	GND	
8	USB3TN1	17	USB3TN2	
9	USB3TP1	18	USB3TP2	

CN6: Audio Jacks Connector (MIC)

PIN	DEFINITION	
5	MIC_L	
4	GND	
3	NC	
2	MIC1_R	
1	GND	

CN7: Audio Jacks Connector (Line-Out)

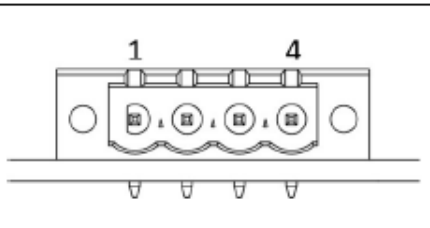
PIN	DEFINITION	
5	FRONT_L	
4	GND	
3	NC	
2	FRONT_R	
1	GND	

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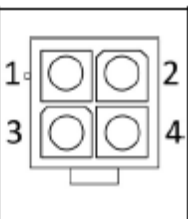
CN22: DC Adapter Power Input

PIN	DEFINITION
1	+VIN
2	+VIN
3	GND
4	GND



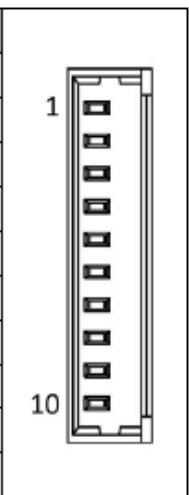
DC_JACK1: DC-IN

PIN	DEFINITION	PIN	DEFINITION
1	GND	2	GND
3	+VIN	4	+VIN



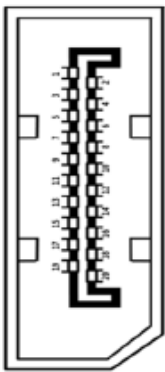
CN10: LPC (Update BIOS)

PIN	DEFINITION
1	GND
2	INT_SERIRQ
3	3.3V
4	LPC_AD0
5	LPC_AD1
6	LPC_AD2
7	LPC_AD3
8	LPC_FRAME#
9	CHIP_PLTRST#
10	CLK



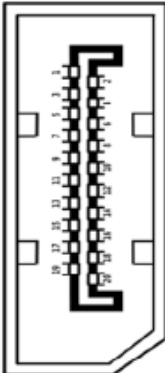
DP1: DISPLAY PORT

PIN	DEFINITION	PIN	DEFINITION
1	DPC_LANE0	2	GND
3	DPC_LANE0	4	DPC_LANE1
5	GND	6	DPC_LANE1
7	DPC_LANE2	8	GND
9	DPC_LANE2	10	DPC_LANE3
11	GND	12	DPC_LANE3
13	DDIC_DDC_AUX_SEL	14	GND
15	DPC_AUXP	16	GND
17	DPC_AUXN	18	DPC_DET
19	GND	20	DPC_PWR



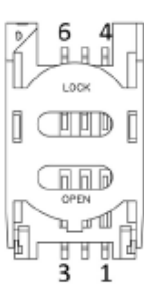
DP2: DISPLAY PORT

PIN	DEFINITION	PIN	DEFINITION
1	DPD_LANE0	2	GND
3	DPD_LANE0	4	DPD_LANE1
5	GND	6	DPD_LANE1
7	DPD_LANE2	8	GND
9	DPD_LANE2	10	DPD_LANE3
11	GND	12	DPD_LANE3
13	DDID_DDC_AUX_SEL	14	GND
15	DDID_AUXP	16	GND
17	DDID_AUXN	18	DPD_DET
19	GND	20	DPD_PWR



SIM_CARD1: SIM card socket

PIN	DEFINITION
1	VCC
2	RESET
3	CLOCK
4	GND
5	VPP
6	DATA

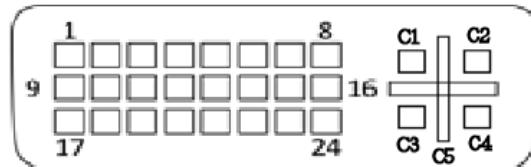


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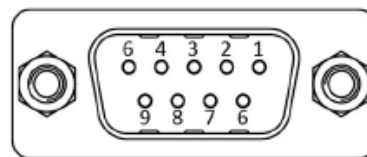
DVI: DVI-D

PIN	DEFINITION	PIN	DEFINITION
1	TMDS Data2-	13	NC
2	TMDS Data2+	14	+5V Power
3	GND	15	GND
4	NC	16	Hot Plug Detect
5	NC	17	TMDS Data0-
6	DDC Clock	18	TMDS Data0+
7	DDC Data	19	GND
8	Analog VSYNC	20	NC
9	TMDS Data1-	21	NC
10	TMDS Data1+	22	GND
11	GND	23	TMDS Clock+
12	NC	24	TMDS Clock-
C1	NC	C2	NC
C3	NC	C4	NC
C5	DVI_GND	C6	DVI_GND



COM1: RS232/422/485 with 5V/12V selectable

PIN	DEFINITION	PIN	DEFINITION
1	DCD1#_OPTO	6	DSR1#_OPTO
2	RXD1_OPTO	7	RTS1#_OPTO
3	TDX1_OPTO	8	CTS1#_OPTO
4	DRT1#_OPTO	9	COM1P9SEL
5	GND	10	GND



JP4: COM1 5V/12V selection

PIN	DEFINITION	PIN	DEFINITION
1	RI1#_OPTO	2	COM1P9SEL
3	5V	4	COM1P9SEL
5	12V	6	COM1P9SEL




JP5: COM2 5V/12V selection

PIN	DEFINITION	PIN	DEFINITION
1	RI1#_OPTO	2	COM1P9SEL
3	5V	4	COM1P9SEL
5	12V	6	COM1P9SEL



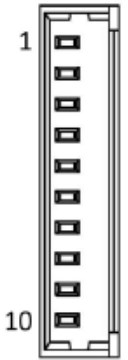
COM2: RS232, with 5V/12V selectable

PIN	DEFINITION
1	5VS
2	GND
3	COM2P9SEL
4	DTR-
5	CTS2-
6	TXD2-
7	RTS2-
8	RXD-
9	DSR-
10	DCD-



COM3/4: RS232

PIN	DEFINITION
1	5VS
2	GND
3	RI-
4	DTR-
5	CTS-
6	TXD-
7	RTS-
8	RXD-
9	DSR-
10	DCD-

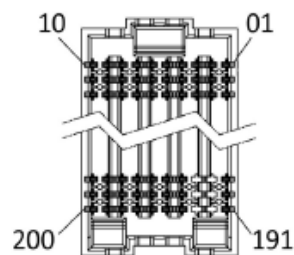


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FPE1: StackPC FPE Top Connector

PIN	DEFINITION	PIN	DEFINITION	PIN	DEFINITION	PIN	DEFINITION	PIN	DEFINITION
1	NC	2	NC	3	NC	4	NC	5	NC
11	GND	12	NC	13	GND	14	NC	15	GND
21	NC	22	NC	23	NC	24	GND	25	NC
31	NC	32	NC	33	NC	34	NC	35	NC
41	GND	42	NC	43	GND	44	NC	45	GND
51	NC	52	GND	53	NC	54	GND	55	NC
61	NC	62	NC	63	NC	64	NC	65	NC
71	GND	72	NC	73	GND	74	NC	75	GND
81	PEG_TXP0	82	NC	83	PEG_TXP2	84	GND	85	PEG_TXP4
91	PEG_TXN0	92	PEG_TXP1	93	PEG_TXN2	94	PEG_TXP3	95	PEG_TXN4
101	GND	102	PEG_TXN1	103	GND	104	PEG_TXN3	105	GND
111	PEG_RXP_0	112	GND	113	PEG_RXP_2	114	GND	115	PEG_RXP_4
121	PEG_RXN_0	122	PEG_RXP_1	123	PEG_RXN_2	124	PEG_RXP_3	125	PEG_RXN_4
131	GND	132	PEG_RXN_1	133	GND	134	PEG_RXN_3	135	GND
141	PEG_TXP8	142	GND	143	PEG_TXP10	144	GND	145	PEG_TXP12
151	PEG_TXN8	152	PEG_TXP9	153	PEG_TXN10	154	PEG_TXP11	155	PEG_TXN12
161	GND	162	PEG_TXN9	163	GND	164	PEG_TXN11	165	GND
171	PEG_RXP_8	172	GND	173	PEG_RXP_10	174	GND	175	PEG_RXP_12
181	PEG_RXN_8	182	PEG_RXP_9	183	PEG_RXN_10	184	PEG_RXP_11	185	PEG_RXN_12
191	GND	192	PEG_RXN_9	193	GND	194	PEG_RXN_11	195	GND
PIN	NAME	PIN	NAME	PIN	NAME	PIN	NAME	PIN	NAME
6	NC	7	NC	8	NC	9	NC	10	NC
16	NC	17	GND	18	NC	19	NC	20	NC
26	GND	27	NC	28	GND	29	NC	30	NC
36	NC	37	NC	38	NC	39	NC	40	NC
46	NC	47	GND	48	NC	49	GND	50	NC
56	GND	57	NC	58	GND	59	NC	60	NC
66	NC	67	NC	68	NC	69	SPKR	70	NC
76	NC	77	GND	78	NC	79	GND	80	NC
86	GND	87	PEG_TXP6	88	GND	89	NC	90	CFG5
96	PEG_TXP5	97	PEG_TXN6	98	PEG_TXP7	99	NC	100	CFG6
106	PEG_TXN5	107	GND	108	PEG_TXN7	109	GND	110	BUF_PLT_RST-
116	GND	117	PEG_RXP_6	118	GND	119	PEG_A_CLK_P	120	GND
126	PEG_RXP_5	127	PEG_RXN_6	128	PEG_RXP_7	129	PEG_A_CLK_N	130	3V3_DU
136	PEG_RXN_5	137	GND	138	PEG_RXN_7	139	GND	140	3V3_DU
146	GND	147	PEG_TXP14	148	GND	149	PEG_B_CLK_P	150	GND
156	PEG_TXP13	157	PEG_TXN14	158	PEG_TXP15	159	PEG_B_CLK_N	160	GND
166	PEG_TXN13	167	GND	168	PEG_TXN15	169	GND	170	NC
176	GND	177	PEG_RXP_14	178	GND	179	NC	180	12V
186	PEG_RXP_13	187	PEG_RXN_14	188	PEG_RXP_15	189	NC	190	12V
196	PEG_RXN_13	197	GND	198	PEG_RXN_15	199	NC	200	12V

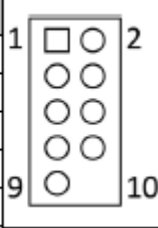


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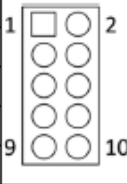
FP1: Front Panel

PIN	DEFINITION	PIN	DEFINITION
1	HDLED+	2	PLED+
3	HDLED-	4	GND
5	GND	6	EC_PWR_BTN
7	EXT_RESET#	8	GND
9	NC	10	NC



FP2: LAN LED

PIN	DEFINITION	PIN	DEFINITION
1	3V3M	2	3V3M
3	LAN_LED_LNK#_ACT	4	LAN2_ACT#
5	LAN_LED_LNK_1000#	6	LAN2_LED_1000-
7	LAN_LED_LNK_100#	8	LAN2_LED_100-



Plug LED cable to FP2 pin header

Active LED: plug 1-3 pin

Single 1000M LED: plug 1-5 pin

Single 100M LED: plug 1-7 pin

Dual 1000M LED: plug 5-7 pin

Chapter 3: Getting Started

3.1 Installing System Memory

The OXY5740A supports 1 x DDR4 XR-DIMM up to 16GB (Top Side), 1 x DDR4 SODIMM up to 16GB.



Disconnect all power supplies to the board before installing a memory module to prevent damage to the board and memory module.

To install a memory module:

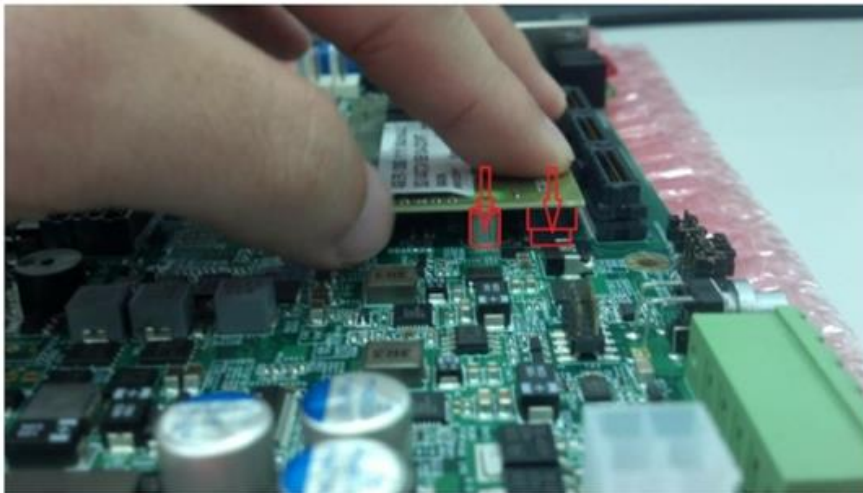
1. Located the memory module slots on the motherboard.



2. Align the memory module with the socket to make sure the notch aligns with the slot key on the socket.



3. Insert the module firmly into the desired slot until the slot lock and secure the memory module.



4. After insert the module to the desire slot, drive screws tighten with memory module's crew hole and bolt on PCB board.



Chapter 4: AMI BIOS UTILITY

This chapter provides users with detailed descriptions on how to set up a basic system configuration through the AMI BIOS setup utility.

4.1 Starting

To enter the setup screens, perform the following steps:

- Turn on the computer and press the key immediately.
- After the key is pressed, the main BIOS setup menu displays. Other setup screens can be accessed from the main BIOS setup menu, such as the Chipset and Power menus.

4.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

Some of the hot keys are <F1>, <F10>, <Enter>, <ESC>, and <Arrow> keys.

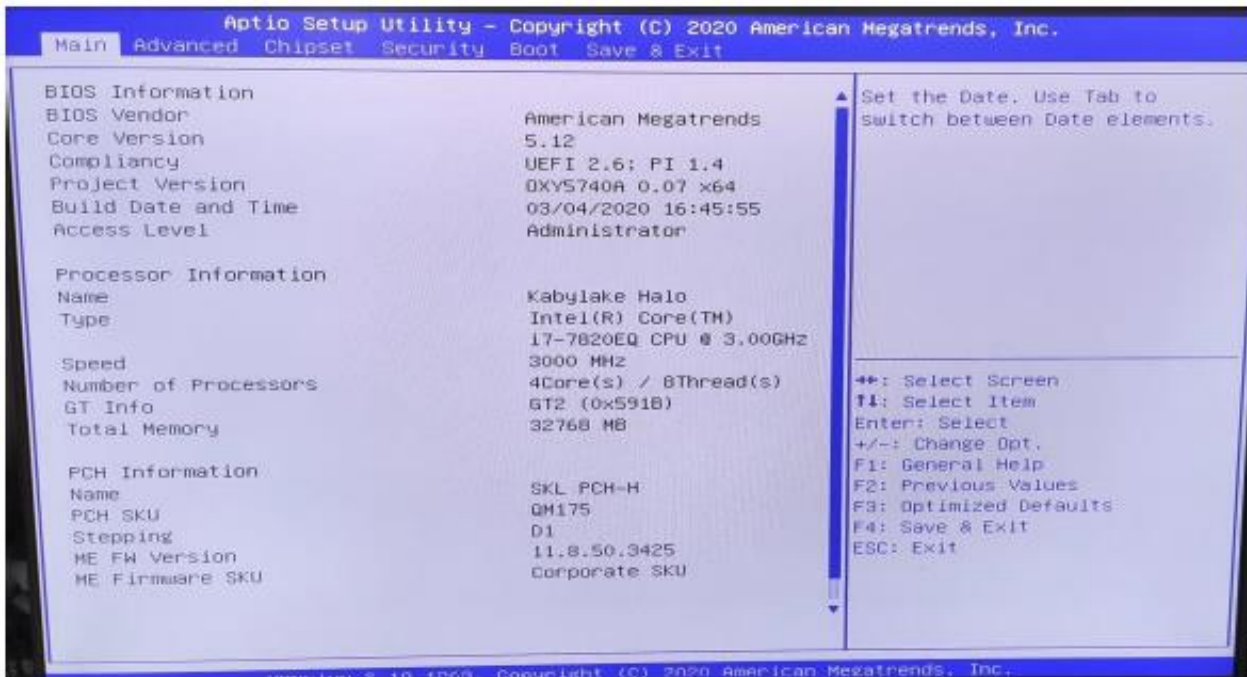


Some of the navigation keys may differ from one screen to another.

Left/Right	The Left and Right <Arrow> keys moves the cursor to select a menu.
Up/Down	The Up and Down <Arrow> keys moves the cursor to select a setup screen or sub-screen.
+– Plus/Minus	The Plus and Minus <Arrow> keys changes the field value of a particular setup setting.
Tab	The <Tab> key selects the setup fields.
F1	The <F1> key displays the General Help screen.
F10	The <F10> key saves any changes made and exits the BIOS setup utility.
Esc	The <Esc> key discards any changes made and exits the BIOS setup utility.
Enter	The <Enter> key displays a sub-screen or changes a selected or highlighted option in each menu.

4.3 Main Menu

The Main menu is the screen that first displays when BIOS Setup is entered, unless an error has occurred.



System Date

Use this function to change the system date.

Select System Date using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields. The date setting must be entered in MM/DD/YY format.

System Time

Use this function to change the system time.

Select System Time using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields. The time setting is entered in HH:MM:SS format.

Note: The time is in 24-hour format. For example, 5:30 A.M. appears as 05:30:00, and 5:30 P.M. as 17:30:00.

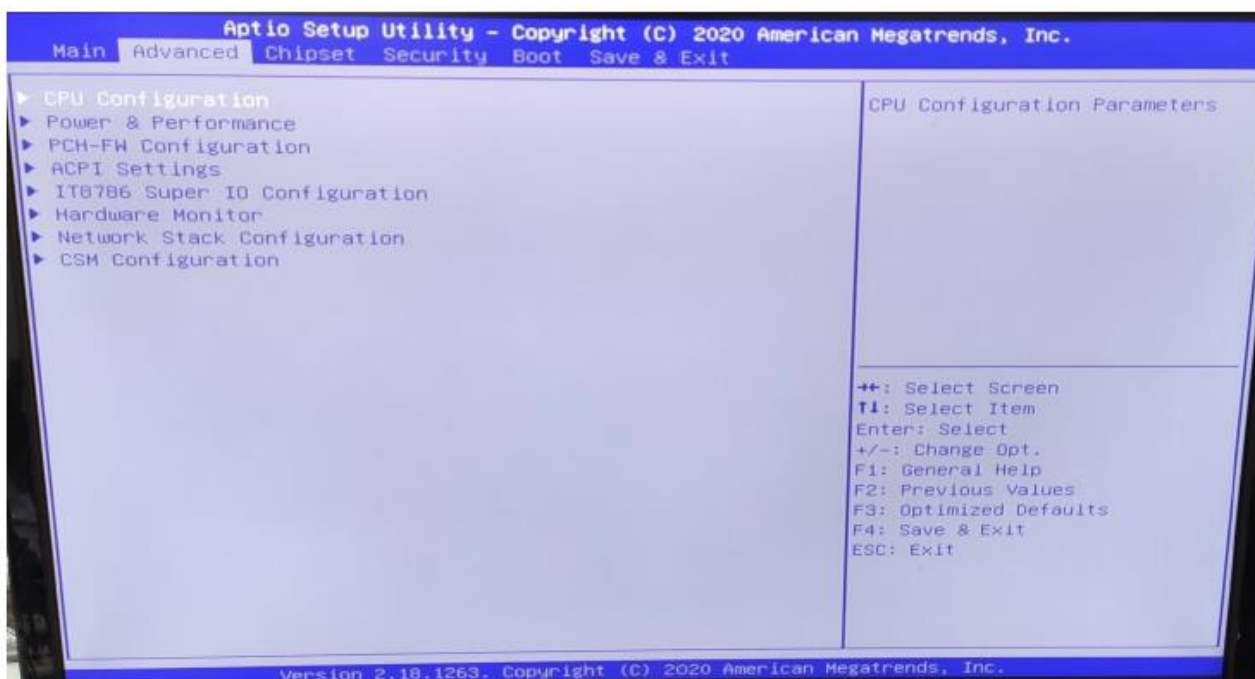
Access Level

Display the access level of the current user in the BIOS.

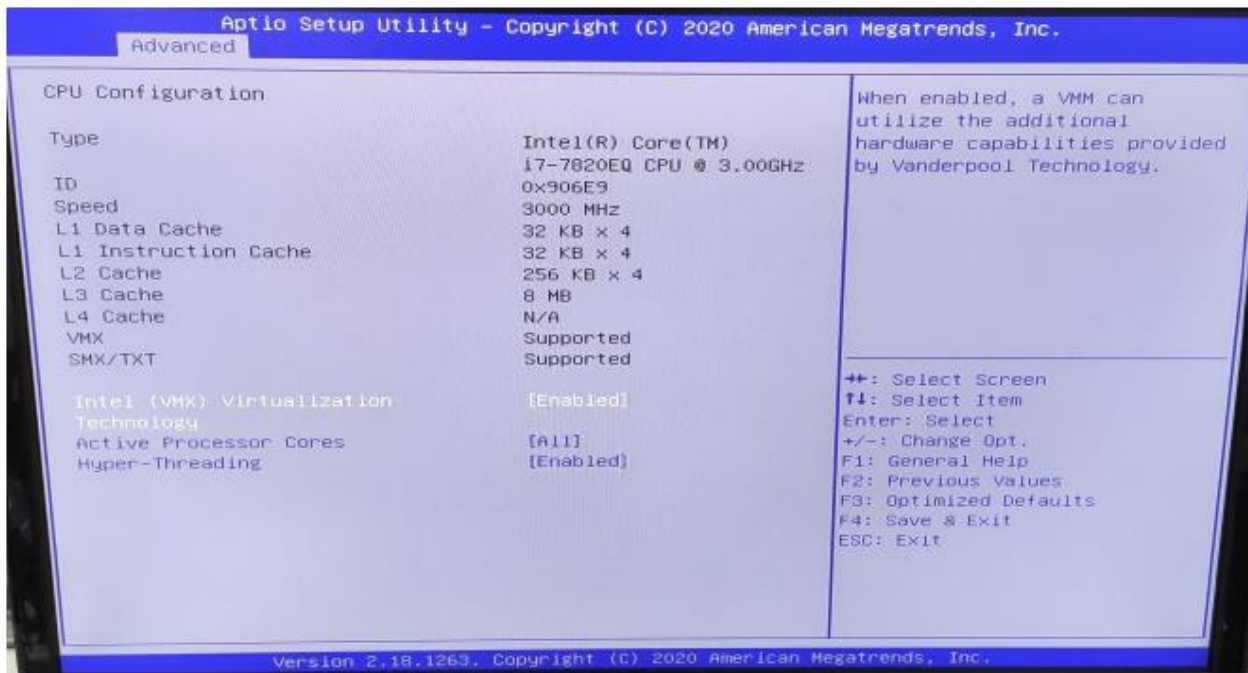
4.4 Advanced Menu

The Advanced Menu allows you to configure your system for basic operation. Some entries are defaults required by the system board, while others, if enabled, will improve the performance of your system or let you set some features according to your preference.

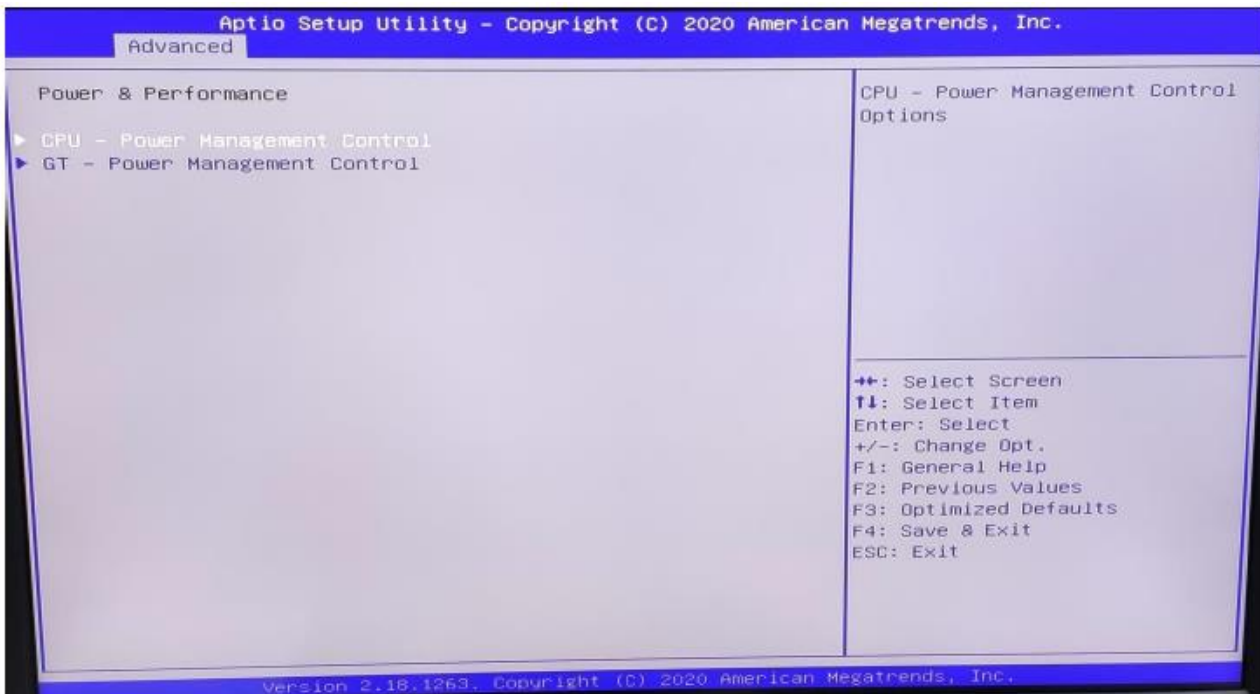
Setting incorrect field values may cause the system to malfunction.



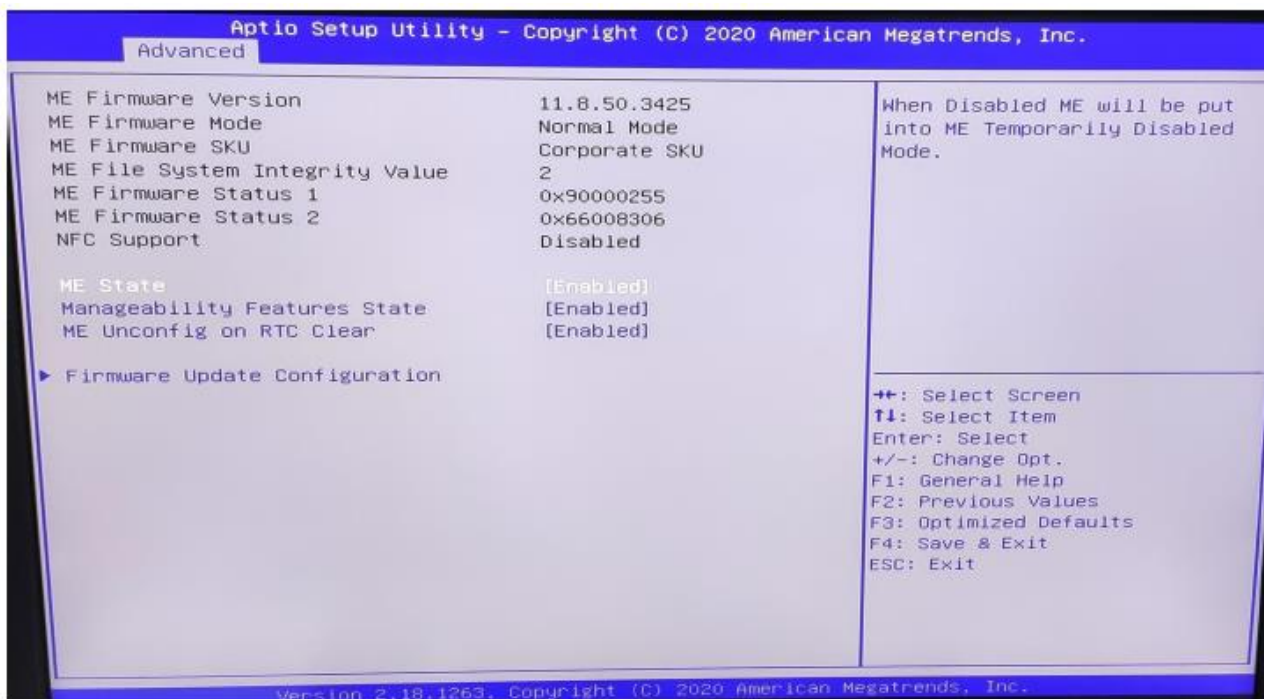
4.4.1 CPU Configuration



4.4.2 Power & Performance



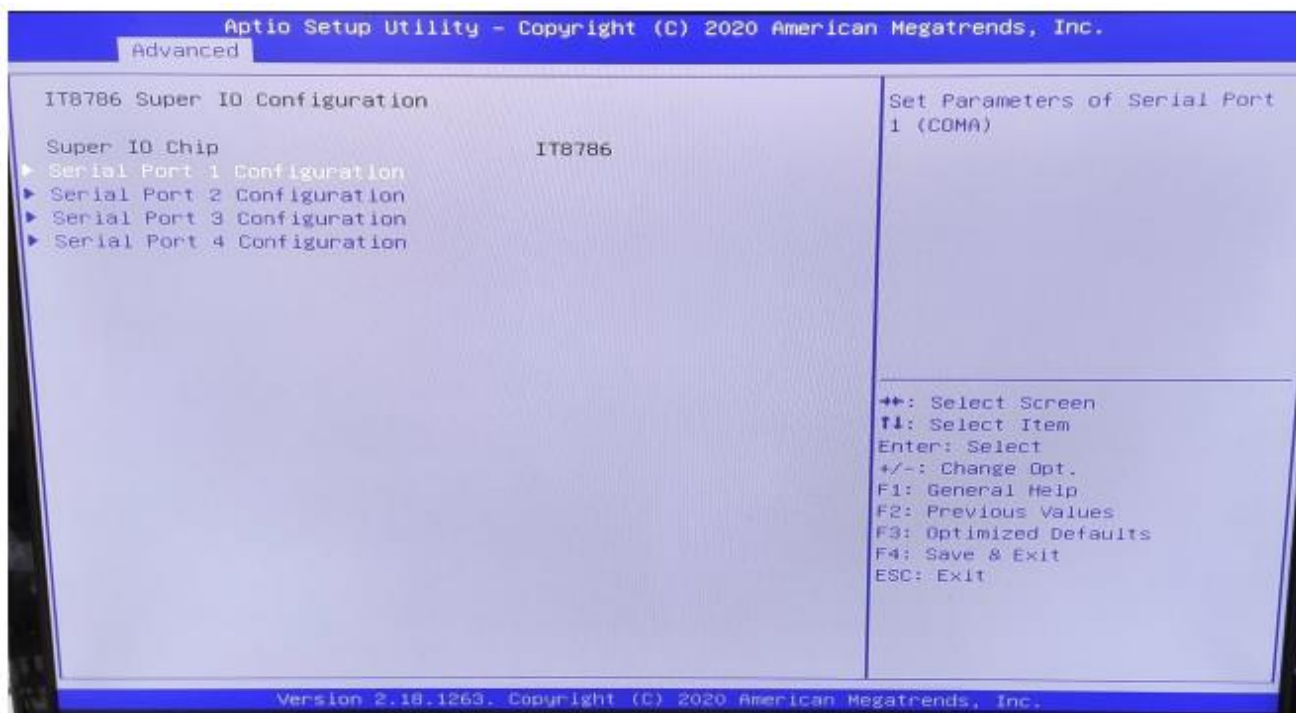
4.4.3 PCH-FW Configuration



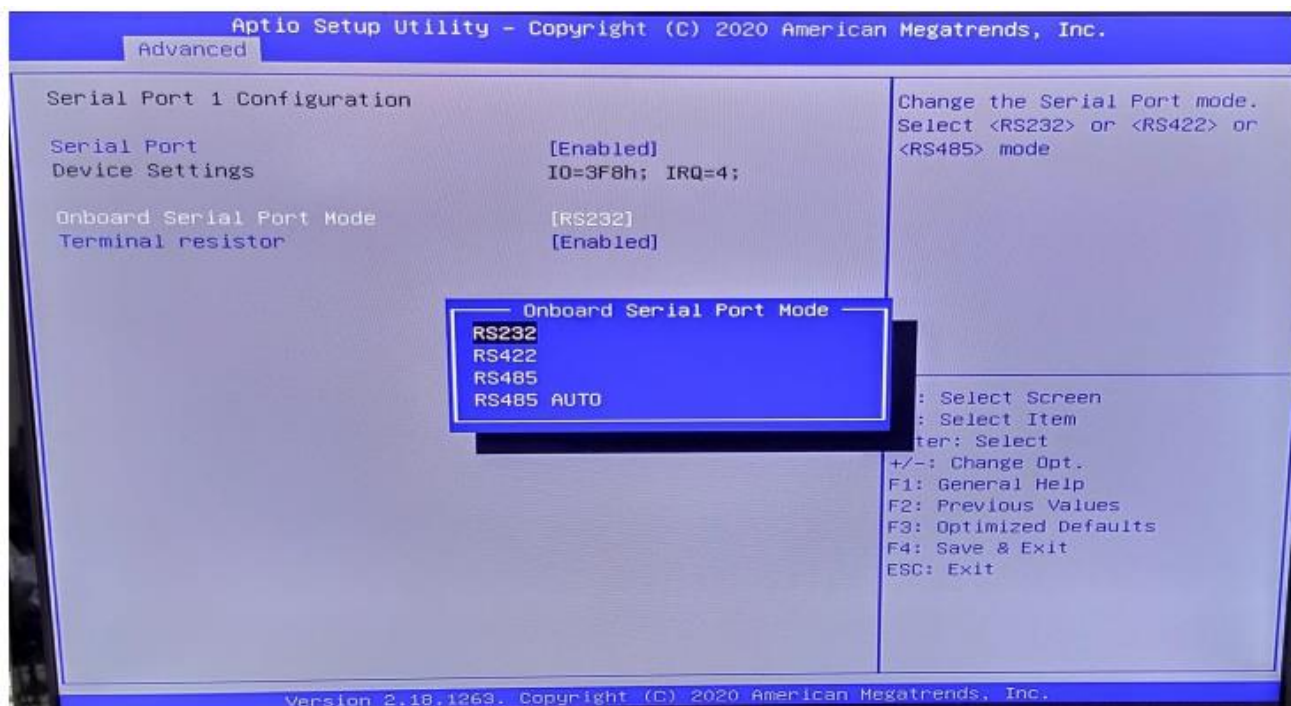
4.4.4 ACPI Setting



4.4.5 IT8786 Super IO Configuration



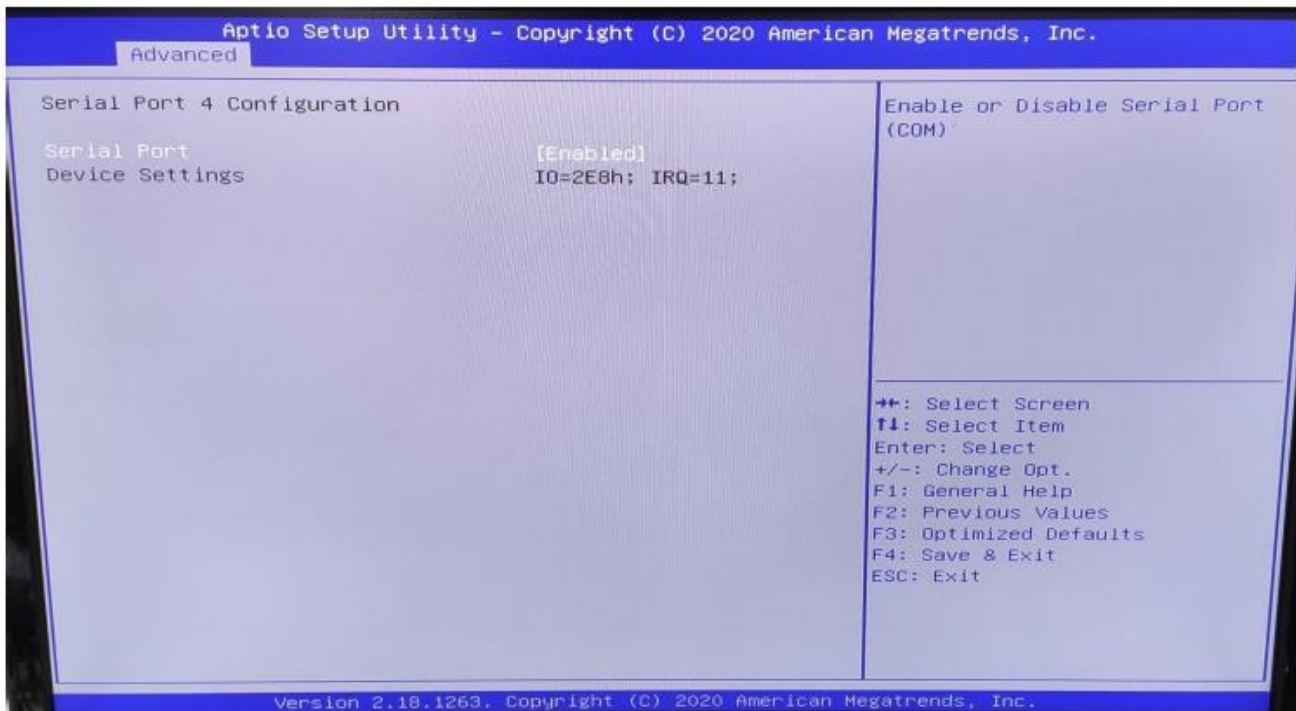
User can choose a mode (RS232/RS422/RS485) on each serial port.



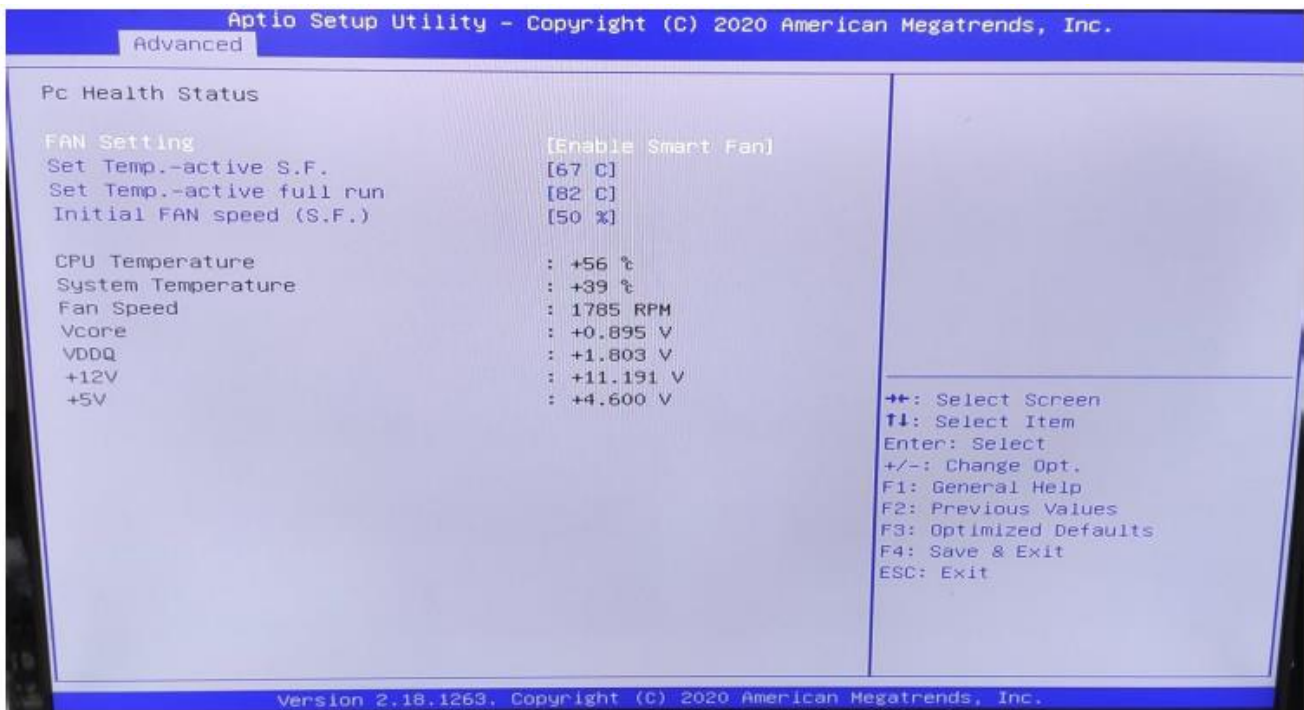
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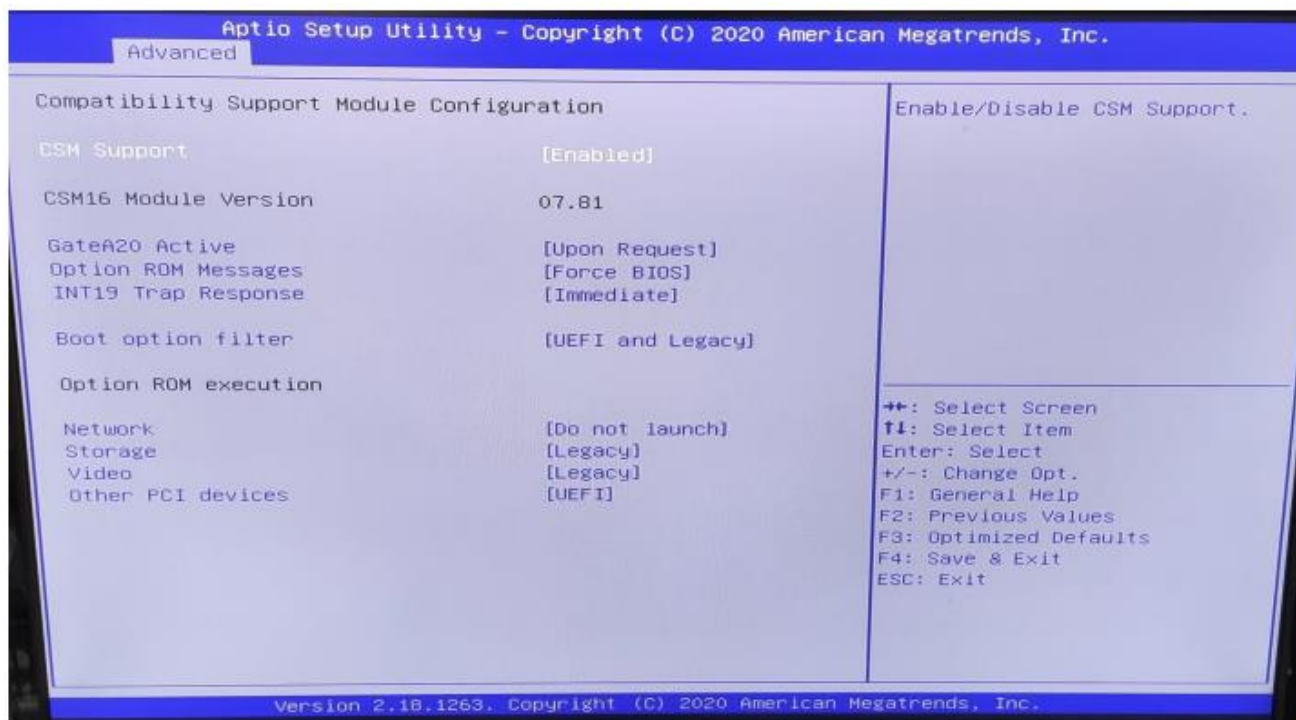




4.4.6 Hardware Monitor



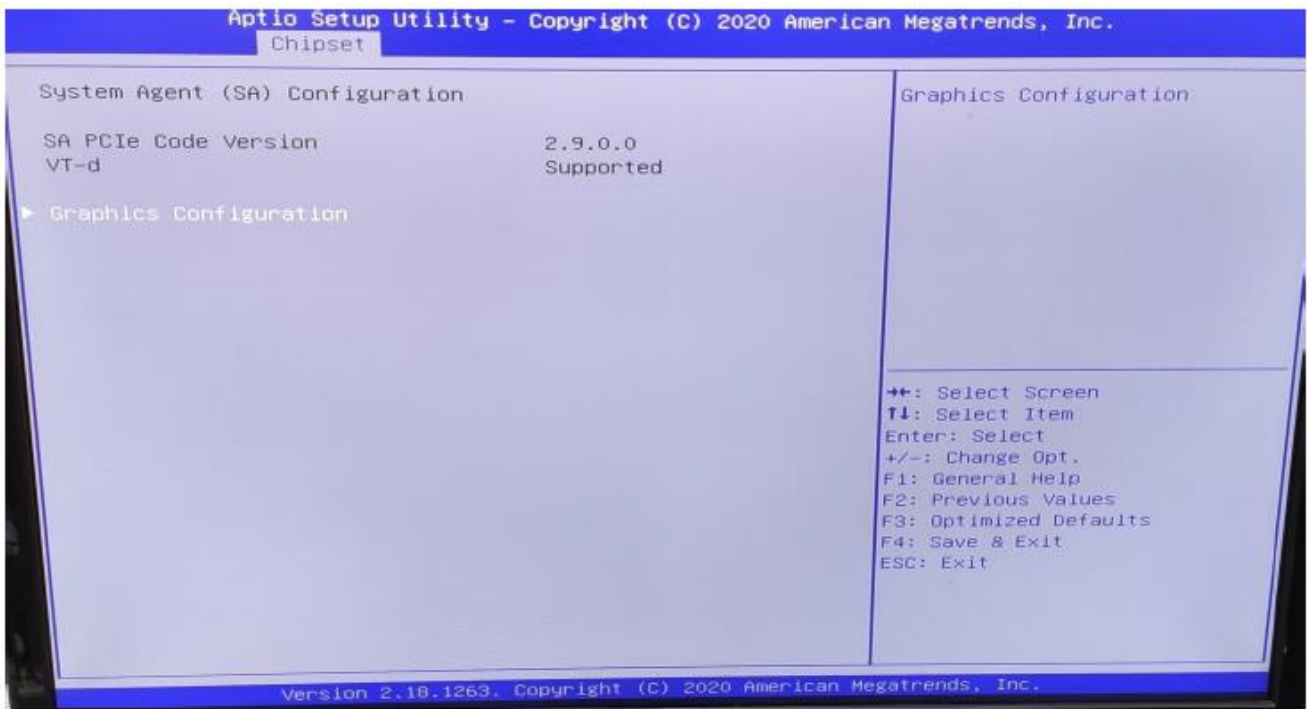
4.4.7 CSM Configuration



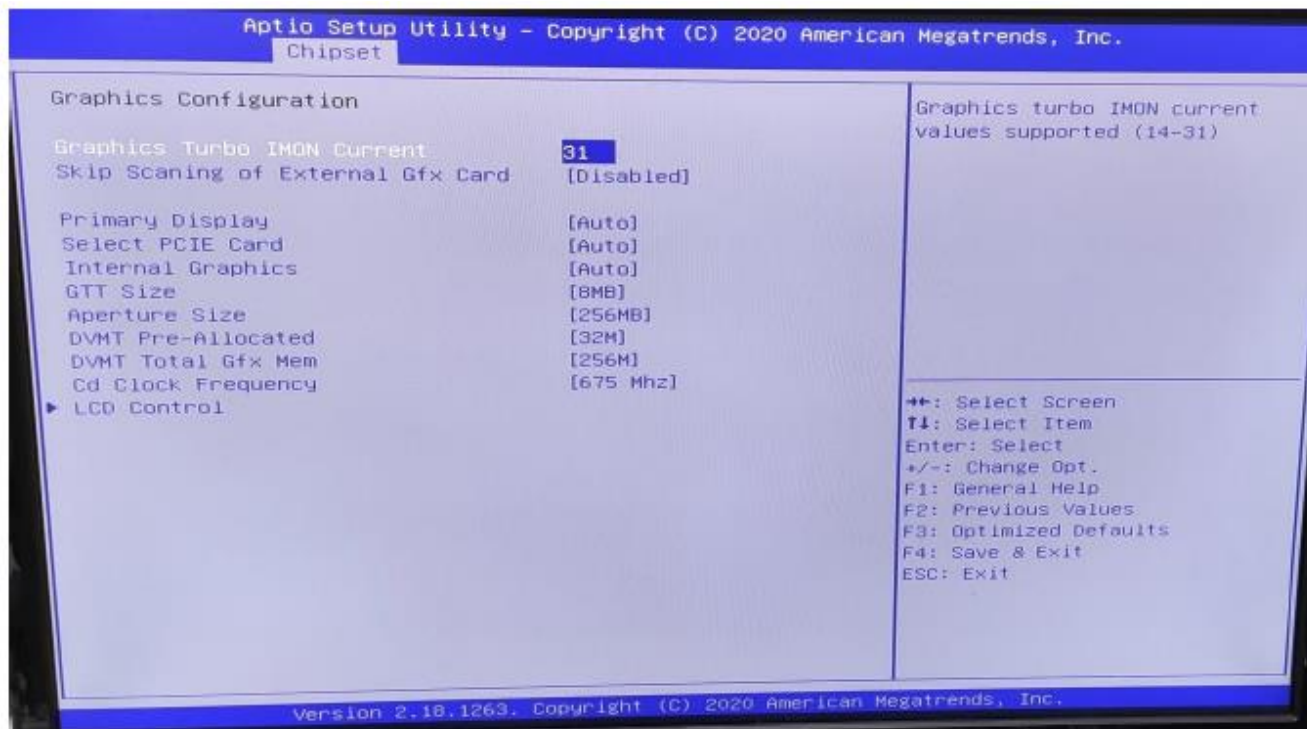
4.5 Chipset



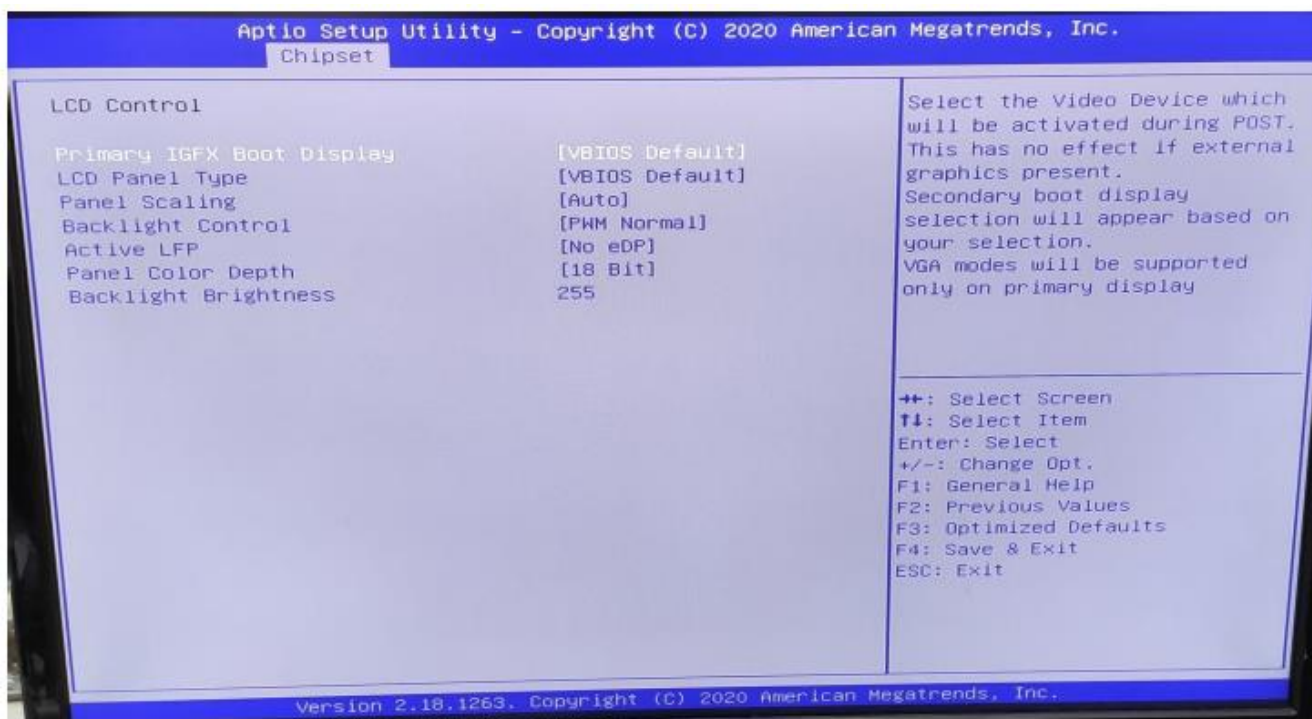
4.5.1 SA Configuration



4.5.1.1 Graphics Configuration



4.5.1.2 LCD Control



Primary IGFX Boot Display: Select the Video Device which will be activated during POST. This has no effect if external graphics present. Secondary boot display selection will appear based on your selection. VGA modes will be supported only on primary display.

LCD Panel Type: Select LCD panel used by Internal Graphics Device by selecting the appropriate setup item.

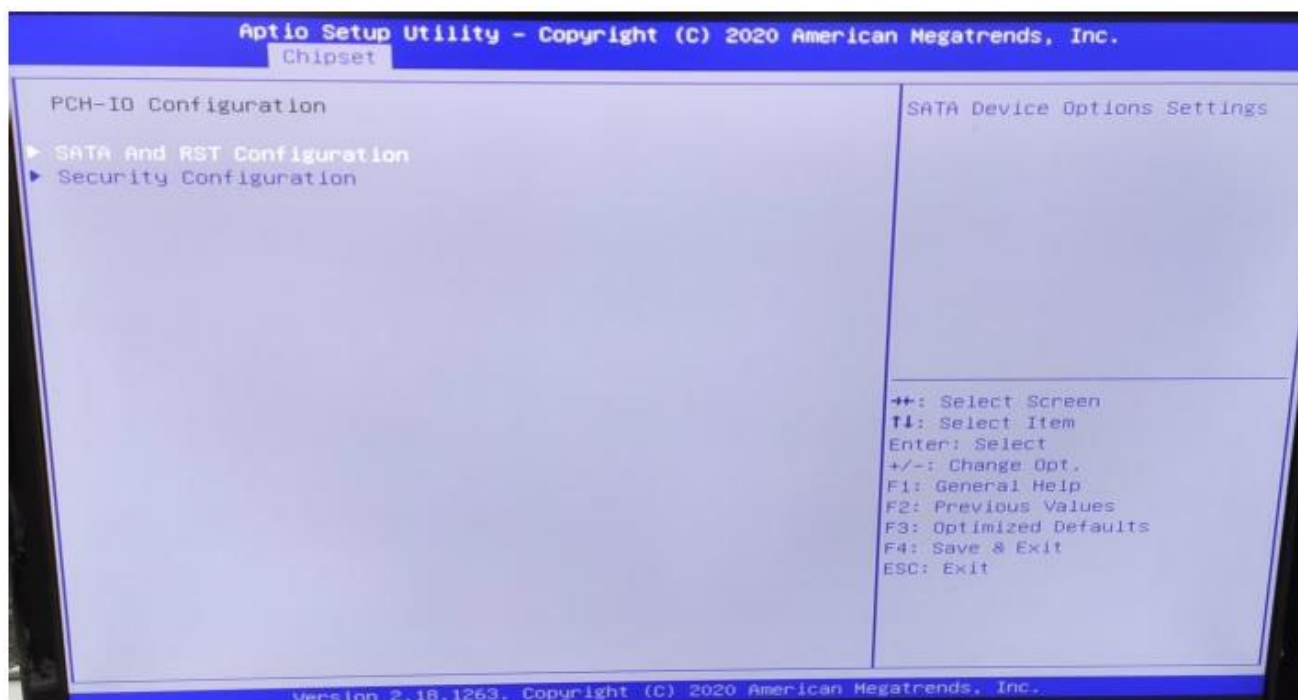
SDVO-LFP Panel Type: Select SDVO panel used by Internal Graphics Device by selecting the appropriate setup item.

Panel Scaling: Select the LCD panel scaling option used by the Internal Graphics Device.

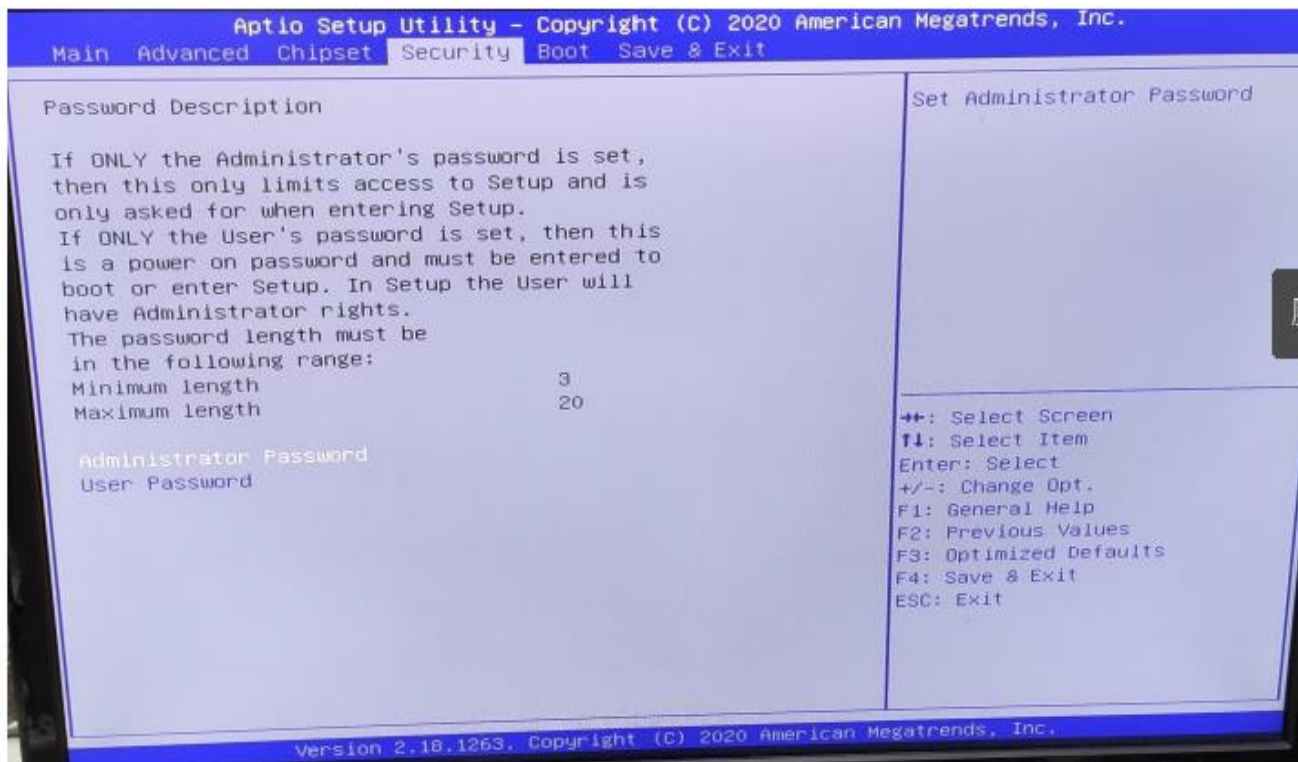
Backlight control: backlight control setting.

Panel Color Depth: select the LFP panel color depth.

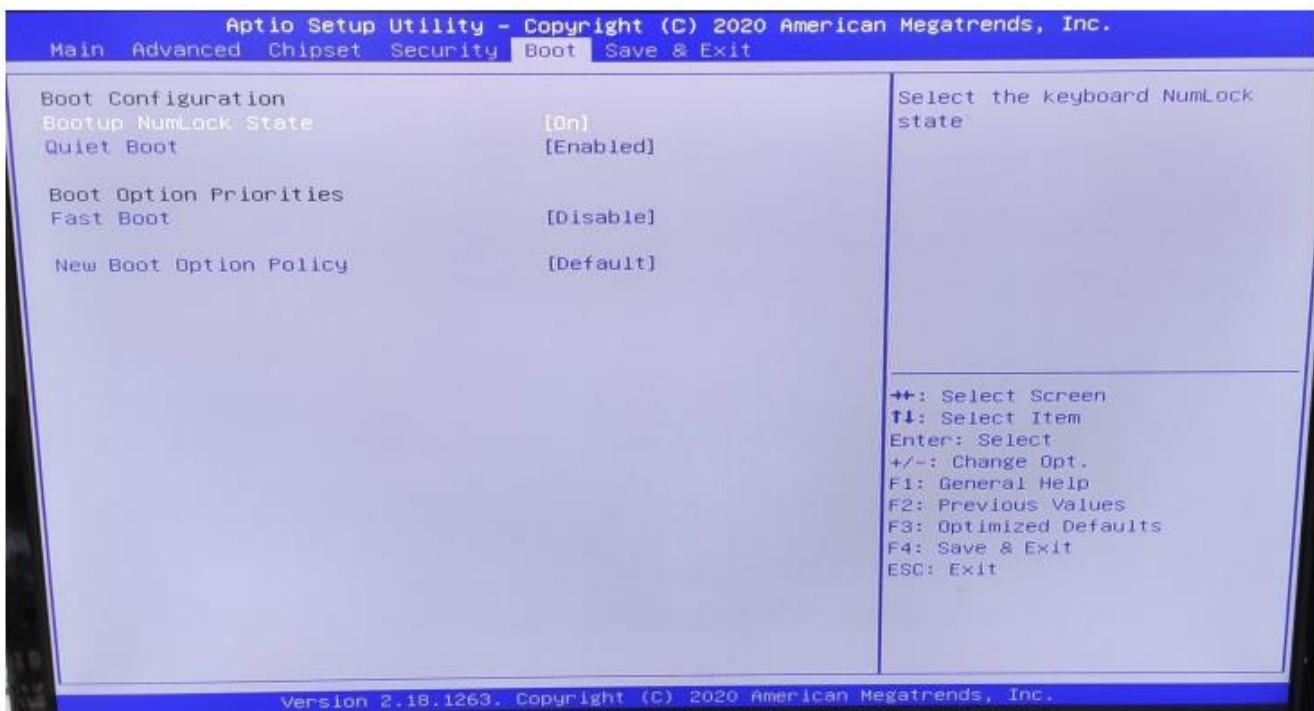
4.5.2 PCH-IO Configuration



4.6 Security



4.7 Boot



Bootup NumLock State: Select the keyboard NumLock state.

Quiet Boot: Enables or disables Quiet Boot option.

Fast Boot: Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

Boot option priorities

Boot Option #1: Sets the system boot order.

4.8 Save & Exit



This screen provides functions for handling changes made to the BIOS settings and the exiting of the Setup program.

Save Changes and Exit

Exit system setup after saving the changes.

Discard Changes and Exit

Exit system setup without saving any changes.

Save Changes and Reset

Reset the system after saving the changes.

Discard Changes and Reset

Reset system setup without saving any changes.

Save Options

Save Changes: Save Changes done so far to any of the setup options.

Discard Changes: Discard Changes done so far to any of the setup options.