GA-WRX80-SU8-IPMI

User's Manual Rev. 1001



Federal Communications Commission Supplier's declaration of conformity is hereby for Product: SERVER BOARD Model Number(s): GA-WRX80-SU8-IPM Brand/Trade: GIGABYTE We declare under our sole responsibility that the above mentioned device has been tested and found in compliance with CFR 47 PART 15 REGULATION. THIS DEVICE COMPLES WITH PART 15-0F THE FCC RULES (1) THIS DEVICE MWRY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MWRY NOT CAUSE UNDESIRED OPERATION. Reponsible Party – U.S. Contact Information Company: G.B. TINC. (U.S.A) Address: 1735B Railroad Street Cily of Industry, CA 91748 Country: U.S.A Telephone Not(626)864-9338 / (626)854-9326 Name Eric Lu Gompany: G.B. TINC. (U.S.A) Address: 1735B Railroad Street Cily of Industry, CA 91748 Country: U.S.A Telephone Not(626)864-9338 / (626)864-9326 Name Eric Lu Title: General Manayu Telephone Not(626)864-9338 / (626)864-9326 Name Eric Lu Title: General Manayu Signature: Date: Dec. 11, 2020
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GA-WRX80-SU8-IPMI Motherboard Layout

1	BMC_VGA	11	FUSB2	21	ATX_PCIE	31	PWR_SW
2	BMC_WATCHD	12	F_USB32C	22	ATX	32	RST_SW
3	COM2	13	USB30V	23	P_X4_M2_A	33	QF_SW
4	SMB_IPMB	14	PMBUS	24	P_X4_M2_B	34	F_LED1
5	I_SGPI01	15	CLR_CMOS	25	SATA_0_1	35	BMC_LED1
6	I_SGPIO2	16	CI	26	SATA_2_3		
7	ТРМ	17	F_PANEL	27	BAT		
8	SL_CN1/CN2	18	CPU_FAN1	28	F_AUDIO		
9	SL_CN3	19	SYS_FAN1~6	29	SPEAKER		
10	FUSB30_1/2	20	ATX_CPU	30	ТВТ		

Box Contents

- GA-WRX80-SU8-IPMI motherboard
- ☑ Motherboard driver disc
- Four SATA cables
- ☑ Quick Installation Guide
- ☑ I/O Shield



GA-WRX80-SU8-IPMI Motherboard Block Diagram

Chapter 1 Hardware Installation

1-1 Installation Precautions

The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Prior to installation, carefully read the user's manual and follow these procedures:

- Prior to installation, make sure the chassis is suitable for the motherboard.
- Prior to installation, do not remove or break motherboard S/N (Serial Number) sticker or warranty sticker provided by your dealer. These stickers are required for warranty validation.
- Always remove the AC power by unplugging the power cord from the power outlet before installing or removing the motherboard or other hardware components.
- When connecting hardware components to the internal connectors on the motherboard, make sure they are connected tightly and securely.
- When handling the motherboard, avoid touching any metal leads or connectors.
- It is best to wear an electrostatic discharge (ESD) wrist strap when handling electronic components such as a motherboard, CPU or memory. If you do not have an ESD wrist strap, keep your hands dry and first touch a metal object to eliminate static electricity.
- Prior to installing the motherboard, please have it on top of an antistatic pad or within an electrostatic shielding container.
- Before connecting or unplugging the power supply cable from the motherboard, make sure the power supply has been turned off.
- Before turning on the power, make sure the power supply voltage has been set according to the local voltage standard.
- Before using the product, please verify that all cables and power connectors of your hardware components are connected.
- To prevent damage to the motherboard, do not allow screws to come in contact with the motherboard circuit or its components.
- Make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing.
- Do not place the computer system on an uneven surface.
- Do not place the computer system in a high-temperature or wet environment.
- Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user.
- If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician.
- If you use an adapter, extension power cable, or power strip, ensure to consult with its installation and/or grounding instructions.

1-2 Product Specifications

CPU .	 AMD Ryzen[™] Threadripper[™] PRO 3000WX (up to 64C) Single sWRX8 4094 socket; CPU TDP supports up to 280W
Chipset ·	AMD WRX80 Chipset
Memory	 8 x DDR4 DIMM sockets supporting up to 1 TB of system memory 8 channels memory architecture (1 DIMM per channel) Support up to DDR4 3200/2933/2600 MHz Support for UDIMM (ECC), RDIMM, 3DS RDIMM and LRDIMM memory modules Support system memory capacity up to 1024 GB
Onboard Graphics	1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz
Audio .	 Realtek[®] ALC1220-VB CODEC High Definition Audio 2/4/5.1/7.1-channel Support for S/PDIF Out
	 Dual Intel[®] X550 10 GbE LAN Dual Intel[®] i210AT GbE LAN (NCSI MLAN)
Expansion Slots	 (Slot7) PCle x16 (running at Gen 4 x16) (Slot6) PCle x16 (running at Gen 4 x16) (Slot5) PCle x16 (running at Gen 4 x16) (Slot4) PCle x16 (running at Gen 4 x16) (Slot3) PCle x16 (running at Gen 4 x16) (Slot2) PCle x16 (running at Gen 4 x8) (Slot1) PCle x16 (running at Gen 4 x16)
Storage Interface	 4 x SATA 6Gb/s connectors (support for software RAID 0, RAID1, RAID5, and RAID10) 2 x M.2 connectors (Socket 3, M key, type 2242/2280, supporting PCIe Gen 4 x4 or SATA mode) 2 x slimSAS (PCIe Gen 4 x4 or 4x SATAIII) + 1 x slimSAS (PCIe Gen 4 x4) connectors
USB	 1 x USB Type-C[®] port on the back panel, with USB 3.2 Gen 2 support 5 x USB 3.2 Gen 2 Type-A ports (red) on the back panel 1 x USB Type-C[®] header onboard, with USB 3.2 Gen 2 support 2 x USB 3.2 Gen 1 header onboard 1 x USB 3.2 Gen 1 vertical connector onboard 1 x USB 2.0 header on board
Connectors	 1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V CPU power connector 1 x 8-pin ATX 12V GPU power connector 1 x CPU fan header 6 x system fan headers 4 x SATA 6Gb/s connectors 2 x M.2 Socket 3 connectors 3 x slimSAS connectors 1 x front panel header 1 x front panel audio header

Internal Connectors Back Panel Connectors	 1 x USB Type-C[®] header, with USB 3.2 Gen 2 support 1 x USB 3.2 Gen 1 vertical connector 2 x USB 3.2 Gen 1 header 1 x USB 2.0 header 1 x Thunderbolt[™] add-in card connector 1 x Trusted Platform Module(TPM) header (2x6 pin, for the GC-TPM2.0_S module only) 1 x serial port header 1 x clear CMOS jumper 2 x SATA SGPIO headers 1 x BMC_VGA jumper 1 x SMB_IPMB connector 1 x SPBAker 1 x Speaker 1 x D-sub port 1 x serial port 1 x Serial port 1 x SMB_12MB
Connectors	 1 x Serial port 1 x USB 3.2 Gen 2 Type-C port (red) 5 x USB 3.2 Gen 2 Type-A port (red) 2 x GbE RJ-45 ports 2 x 10GbE RJ-45 ports
	 1 x optical S/PDIF Out connector 5 x audio jacks
I/O Controller	ASPEED® AST2500 BMC chip
Hardware Monitor	 Voltage detection Temperature detection Fan speed detection Fan speed control * Whether the fan speed control function is supported will depend on the fan you install.
Operating Properties	 Operating temperature: 10°C to 40°C Operating humidity: 8 - 80% Non-operating temperature: -40°C to 70°C Non-operating humidity: 5% - 95%
Form Factor	CEB Form Factor; 30.5cm x 26.7cm
Operating System	Windows 10 Linux

* GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice.

1-3 Installing the CPU



- Make sure that the motherboard supports the CPU.
- Always turn off the computer and unplug the power cord from the power outlet before installing the CPU to prevent hardware damage.
- Locate the pin one of the CPU. The CPU cannot be inserted if oriented incorrectly. (Or you may locate the notches on both sides of the CPU and alignment keys on the CPU socket.)
- Apply an even and thin layer of thermal grease on the surface of the CPU.
- Do not turn on the computer if the CPU cooler is not installed, otherwise overheating and damage
 of the CPU may occur.
- Set the CPU host frequency in accordance with the CPU specifications. It is not recommended
 that the system bus frequency be set beyond hardware specifications since it does not meet the
 standard requirements for the peripherals. If you wish to set the frequency beyond the standard
 specifications, please do so according to your hardware specifications including the CPU, graphics
 card, memory, hard drive, etc.

Installing the CPU

Locate the alignment keys on the motherboard CPU socket and the notches on the CPU.



1-4 Installing the Memory



Read the following guidelines before you begin to install the memory:

- Make sure that the motherboard supports the memory. It is recommended that memory of the same capacity, brand, speed, and chips be used.
 - (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
- Always turn off the computer and unplug the power cord from the power outlet before installing the memory to prevent hardware damage.
- Memory modules have a foolproof design. A memory module can be installed in only one direction. If you are unable to insert the memory, switch the direction.

4 Channel Memory Configuration

This motherboard supports 8 Channel Technology. After the memory is installed, the BIOS will automatically detect the specifications and capacity of the memory.

The eight DDR4 memory sockets are divided into eight channels and each channel has one memory socket as following:

- Channel 1: P1-DIMM_A1
- ▶ Channel 2: P1-DIMM_B1
- ▶ Channel 3: P1-DIMM_D1
- ➤ Channel 4: P1-DIMM_D1
- ▶ Channel 5: P1-DIMM_E1
- ▶ Channel 6: P1-DIMM_F1
- ▶ Channel 7: P1-DIMM_G1
- ▶ Channel 8: P1-DIMM_H1

Due to CPU limitations, read the following guidelines before installing the memory in 8 Channel mode.

 When enabling 8 Channel mode with eight memory modules, it is recommended that memory of the same capacity, brand, speed, and chips be used.



1-5 **Back Panel Connectors**



O D-Sub Port

The D-Sub port supports a 15-pin D-Sub connector and supports a maximum resolution of 1920x1200@60 Hz (the actual resolutions supported depend on the monitor being used). Connect a monitor that supports D-Sub connection to this port.

COM Port

Use this port to connect devices such as a mouse, modem or other peripherals.

USB 3.2 Gen 2 Type-A Port (Red)

The USB 3.2 Gen 2 Type-A port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. Use this port for USB devices.

O USB Type-C[®] Port

The reversible USB port supports the USB 3.2 Gen 2x2 specification and is compatible to the USB 3.2 Gen 2, USB 3.2 Gen 1, and USB 2.0 specifications. Use this port for USB devices.

GbE LAN Port (LAN1~2)

The Gigabit Ethernet LAN port provides Internet connection at up to 1 Gbps data rate. The following describes the states of the LAN port LEDs.

Activity LED Link LED Ŀ

	LED	State	Description
감독	Link (Right)	Solid Green	100 Mbps data rate
		Solid Amber	1 Gbps data rate
LAN Port	Activity (Left)	Blinking Yellow	Active

10 GbE LAN Port

The Gigabit Ethernet LAN port provides Internet connection at up to 10 Gbps data rate. The following describes the states of the LAN port LEDs.



	LED	State	Description
Link (Dinkt)	Link (Dight)	Solid Amber	10 Gbps data rate
LINK (Right)		Solid Green	1 Gbps data rate
	Activity (Left)	Blinking Yellow	Active

Activity LED Link LED



When removing the cable, pull it straight out from the connector. Do not rock it side to side to prevent an electrical short inside the cable connector.

Center/Subwoofer Speaker Out

Use this audio jack to connect center/subwoofer speakers.

Rear Speaker Out

Use this audio jack to connect rear speakers.

Optical S/PDIF Out Connector

This connector provides digital audio out to an external audio system that supports digital optical audio. Before using this feature, ensure that your audio system provides an optical digital audio in connector.

Line In/Side Speaker Out

The line in jack. Use this audio jack for line in devices such as an optical drive, walkman, etc.

Line Out/Front Speaker Out

The line out jack. This jack supports audio amplifying function. For better sound quality, it is recommended that you connect your headphone/speaker to this jack (actual effects may vary by the device being used).

• Mic In

The Mic in jack.

Audio Jack Configurations:

	Jack	Headphone/ 2-channel	4-channel	5.1-channel	7.1-channel
8	Center/Subwoofer Speaker Out			~	~
0	Rear Speaker Out		~	~	~
0	Line In/Side Speaker Out				~
0	Line Out/Front Speaker Out	~	~	~	~
0	Mic In				~



If you want to install a Side Speaker, you need to retask the Line in jack to be Side Speaker out through the audio driver.

 To enable or configure the audio amplifying function for the Line out jack, please access the Realtek Audio Console application.

1-6 Internal Connectors





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SL_CN1/CN2

FUSB30_1/2

SL_CN3

Read the following guidelines before connecting external devices:

CPU_FAN1

ATX_CPU

SYS FAN1~6

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- · First make sure your devices are compliant with the connectors you wish to connect.
- Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.

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F_AUDIO

SPEAKER

TBT

 After installing the device and before turning on the computer, make sure the device cable has been securely attached to the connector on the motherboard.

1) BMC_VGA

1 🚥

Pin	Definition
1-2	Enable (Default)
2-3	Disable

2) BMC_WATCHD

1 🚥

Pin	Definition
1-2	Enable
2-3	Disable (Default)

3) COM2 (Serial Port Header)

10		•	9
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- 1	•	•	
- 1	•	•	
21	•	•	11

Pin	Definition	Pin	Definition
1	NDCD-	2	NSIN
3	NSOUT	4	NDTR-
5	GND	6	NDSR-
7	NRTS-	8	NCTS-
9	NRI-	10	-

4) SMB_IPMB

1 • •

Pin	Definition
1	SMB_DATA
2	GND
3	SMB_CLK
4	NA

- 5) I_SGPIO1 (For SATA_0_1)
- 6) I_SGPIO2 (For SATA_2_3)

	Pin	Definition	Pin	Definition
	1	NA	2	-
	3	SATA_DATA	4	GND
Γ	5	GND	6	SATA_LOAD
	7	NA	8	SATA_CLK

7) TPM (Trusted Platform Module/Port 80 Header)

1	••	2
	• I	
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Pin	Definition	Pin	Definition
1	LPC_IO0	2	P3V3
3	LPC_IO1	4	-
5	LPC_IO2	6	TPM_CLK
7	LPC_IO3	8	GND
9	LFRAME#	10	NA
11	SERIRQ	12	TPM_RST

8) SL_CN1/SL_CN2



Pin	Definition	Pin	Definition
B1	GND	A1	GND
B2	Tx0+/SATA1_TX+	A2	Rx0+/SATA1_RX+
B3	Tx0-/SATA1_TX-	A3	Rx0-/SATA1_RX-
B4	GND	A4	GND
B5	Tx1+/SATA2_TX+	A5	Rx1+/SATA2_RX+
B6	Tx1-/SATA2_TX-	A6	Rx1-/SATA2_RX-
B7	GND	A7	GND
B8	SB0	A8	SB7
B9	SB1	A9	SB4
B10	SB2	A10	SB3
B11	SB5	A11	Clock+
B12	SB6	A12	Clock-
B13	GND	A13	GND
B14	Tx2+/SATA3_TX+	A14	Rx2+/SATA3_RX+
B15	Tx2-/SATA3_TX-	A15	Rx2-/SATA3_RX-
B16	GND	A16	GND
B17	Tx3+/SATA4_TX+	A17	Rx3+/SATA4_RX+
B18	Tx3-/SATA4_TX-	A18	Rx3-/SATA4_RX-
B19	GND	A19	GND

9) SL_CN3



Pin	Definition	Pin	Definition
B1	GND	A1	GND
B2	Tx0+	A2	Rx0+
B3	Tx0-	A3	Rx0-
B4	GND	A4	GND
B5	Tx1+	A5	Rx1+
B6	Tx1-	A6	Rx1-
B7	GND	A7	GND
B8	SB0	A8	SB7
B9	SB1	A9	SB3
B10	SB8	A10	SB9
B11	SB2	A11	SB4
B12	SB6	A12	SB5
B13	GND	A13	GND
B14	Tx2+	A14	Rx2+
B15	Tx2-	A15	Rx2-
B16	GND	A16	GND
B17	Tx3+	A17	Rx3+
B18	Tx3-	A18	Rx3-
B19	GND	A19	GND

10) FUSB30_1/FUSB30_2 (USB 3.2 Gen 1 Headers)



Pin	Definition	Pin	Definition
1	VBUS	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	GND
4	GND	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	GND
7	GND	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS
10	NC	20	-

11) FUSB2 (USB 2.0/1.1 Header)



Pin	Definition	Pin	Definition
1	Power (5V)	2	Power (5V)
3	USB DX-	4	USB DY-
5	USB DX+	6	USB DY+
7	GND	8	GND
9	-	10	NC

12) F_USB32C (USB Type-C[®] Header with USB 3.2 Gen 2 Support)

Pin	Definition	Pin	Definition
1	VBUS	11	VBUS
2	TX1+	12	TX2+
3	TX1-	13	TX2-
4	GND	14	GND
5	RX1+	15	RX2+
6	RX1-	16	RX2-
7	VBUS	17	GND
8	CC1	18	D-
9	SBU1	19	D+
10	SBU2	20	CC2
	Pin 1 2 3 4 5 6 7 8 9 9 10	Pin Definition 1 VBUS 2 TX1+ 3 TX1- 4 GND 5 RX1+ 6 RX1- 7 VBUS 8 CC1 9 SBU1 10 SBU2	Pin Definition Pin 1 VBUS 11 2 TX1+ 12 3 TX1- 13 4 GND 14 5 RX1+ 15 6 RX1- 16 7 VBUS 17 8 CC1 18 9 SBU1 19 10 SBU2 20

13) USB30V (USB 3.2 Gen 1 Connector)



14) PMBUS (Power supply I2C Connector)



Pin	Definition
1	SMB_CLK
2	SMB_DATA
3	PSU_ALERT
4	GND
5	P3V3

15) CLR_CMOS

1

Pin	Definition
1-2	NA (Default)
2-3	Clear CMOS

16) CI

Pin	Definition	
1	Intrusion Input	
2	GND	

17) F_PANEL

Pin	Definition	Pin	Definition	
1	Power LED+	2	5V Standby	
3	-	4	ID LED+	
5	Power LED-	6	ID LED-	
7	HDD LED+	8	System Status LED+	
9	HDD LED1	10	System Status LED-	
11	Power Button	12	LAN1 Active LED+	
13	GND	14	LAN1 Link LED-	
15	Reset Button	16	SMBus Data	
17	GND	18	SMBus Clock	
19	ID Button	20	Case Open	
21	GND	22	LAN2 Active LED+	
23	NMI Switch	24	LAN2 Link LED-	

18) CPU_FAN1 19) SYS_FAN1~6

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Pin	Definition
1	GND
2	P12V
3	FAN_TACH
4	FAN_PWM

20/21) ATX_CPU/ATX_PCIE (2x4, 12V Power Connectors)





ATX_CPU



22) ATX (2x12 Main Power Connector)





25/26) SATA_0_1/SATA_2_3 (SATA 6Gb/s Connectors)



27) BAT



28) F_AUDIO

10 ••• 9 ••• 2 ••• 1

Definition	Pin	Definition
MIC2_L	2	GND
MIC2_R	4	NC
LINE2_R	6	Sense
FAUDIO_JD	8	No Pin
LINE2_L	10	Sense
	Definition MIC2_L MIC2_R LINE2_R FAUDIO_JD LINE2_L	DefinitionPinMIC2_L2MIC2_R4LINE2_R6FAUDIO_JD8LINE2_L10

29) SPEAKER

1

Pin	Definition	
1	5V	
2	NA	
3	NA	
4	SPK-	

30) TBT (Thunderbolt[™] Pin Header)

Pin	Definition
1	FORCE_POWER
2	SCI_EVENT
3	SLP_S3
4	SLP_S4
5	GND

- 31) PWR_SW (Power Button)
- 32) RST_SW (Reset Button)
- 33) QF_SW (Q-Flash Plus Button)



34) F_LED1 (Onboard Power LED)

State	Description	
Solid Red	Standby	
Solid Green	Power On	

35) BMC_LED1 (BMC Heartbeat LED)

State	Description	
Blinking Green	BMC Normal	

Chapter 2 BIOS Setup

BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on.



- Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
- It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results. Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values. (Refer to the "Load Optimized Defaults" section in this chapter or introductions of the battery/clear CMOS jumper in Chapter 1 for how to clear the CMOS values.)

2-1 Startup Screen

The following startup Logo screen will appear when the computer boots.



2-2 Main

Once you enter the BIOS Setup program, the Main Menu (as shown below) appears on the screen. Use arrow keys to move among the items and press <Enter> to accept or enter a sub-menu.

Main Menu Help

The on-screen description of a highlighted setup option is displayed on the right of the Main Menu. Submenu Help

While in a submenu, press <F1> to display a help screen (General Help) of function keys available for the menu. Press <Esc> to exit the help screen. Help for each item is in the Item Help block on the right side of the submenu.



When the system is not stable as usual, select the **Restore Defaults** item to set your system to its defaults. The BIOS Setup menus described in this chapter are for reference only and may differ by BIOS version.

BIOS Information		▲ Choose the system
BIOS Vendor	American Megatrends	default language
Core Version	5.17	
Compliancy	UEFI 2.7; PI 1.6	
Project Version	WRX80SU8-F3	
Build Date and Time	04/12/2021 17:20:47	
BMC Firmware Revision	1.00	
System UUID	C9000000-0000-58CD-140D -040F0303E507	
Access Level	Administrator	
		++: Select Screen
Memory Information		T↓: Select Item
Total Memory	Total Memory: 16384 MB	Enter: Select
	(DDR4)	+/-: Change Opt.
		F1: General Help
	[English]	F2: Previous values
Queter Dete	[Tup 04/19/2021]	F3: Uptimized Defaults
System Date	[108 04/10/2021]	FOR DUIT

This section provides information on your motherboard model and BIOS version. You can also select the default language used by the BIOS and manually set the system time.

∽ System Language

Selects the default language used by the BIOS.

System Date

Sets the system date. The date format is week (read-only), month, date, and year. Use <Enter> to switch between the Month, Date, and Year fields and use the <+> or <-> key to set the desired value.

∽ System Time

Sets the system time. The time format is hour, minute, and second. For example, 1 p.m. is 13:00:00. Use <Enter> to switch between the Hour, Minute, and Second fields and use the <+> or <-> key to set the desired value.

2-3 Advanced

Aptio Setup Utility – Copyright (C) 2021 American Megatrends, Inc. Main <mark>Advanced</mark> PBS Chipset Server Mgmt Security Boot Save & Exit					
 Trusted Computing AND fTEM configuration ACPI Settings Legacy Video Select AST2500 Super IO Configuration Serial Port Console Redirection CFU Configuration IDE Configuration Doption ROM Dispatch Policy PCI Subsystem Settings 	Trusted Computing Settings				
 USB Configuration Network Stack Configuration CSM Configuration NVMe Configuration Offboard SATA Controller Configuration AMD Mem Configuration Status RAM Disk Configuration 	<pre>++: Select Screen t1: Select Item Enter: Select +/-: Change Opt. F1: Beneral Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>				
Version 2.20.1276. Copyright (C) 2021 America	n Megatrends, Inc. AB				

Trusted Computing(TPM)

Enables or disables Trusted Platform Module (TPM).

AMD fTPM

→ AMD fTPM switch

Allows you to select the TPM device. Options are: AMD CPU fTPM, OffBoard LPC TPM, OnBoard SPI TPM. (Default: AMD CPU fTPM)

∽ Erase fTPM NV for factory reset

When new CPU is installed, select **Enabled** to reset fTPM, if you have BitLocker or encryption-enabled system, the system will no boot without a recovery key. Select **Disabled** to keep previous fTPM record and continue system boot, fTPM will NOT be enabled with new CPU unless fTPM is reset (reinitialized), you could swap back to the old CPU to recover TPM related keys and data. (Default: Enabled)

ACPI Settings

∽ Enable ACPI Auto Configuration

Enables or disables BIOS ACPI auto configuration. (Default: Disabled)

☞ Enable Hibernation

Enables or disables system ability to Hibernate (OS/S4 sleep state). This option may not be effective with some operating systems. (Default: Enabled)

∽ ACPI Sleep State

Select the highest ACPI sleep state the system will enter when the suspend button is pressed. Options are: Suspend Disabled and S3 (Suspend to RAM) (Default).

Legacy Video Select

On Board/External VGA Select

Specifies the first initiation of the monitor display from the onboard graphics or the external graphics card. (Default: Onboard)

AST2500 Super IO Configuration

∽ Serial Port 1 Configuration (the COM Port on the back panel)

Serial Port

Enables or disables the serial port on the back panel.

Change Settings Select an optimal settings for Super IO Device. (Default: Auto) Please note that This item is available when Serial Port is set to Enabled.

Serial Port 2 Configuration (the onboard COM2 Header)

Serial Port

Enables or disables the onboard serial port.

∽ Change Settings Select an optimal settings for Super IO Device. (Default: Auto) Please note that This item is available when Serial Port is set to Enabled.

Serial Port Console Redirection

This section allows you to enable/disable serial port console redirection for remote server management through a serial port.

CPU Configuration

→ SVM Mode

Enables or disables the CPU Virtualization Technology. (Default: Enabled)

∽ SMM Mode

Enables or disables the CPU SMM Lock function. (Default: Enabled)

∽ CPU 0 Information

This item shows the CPU informations.

IDE Configuration

This section allows you to configure the onboard IDE devices.

Option ROM Dispatch Policy

Restore if Failure

If system fails to boot and this option is set to Enabled, software will reset settings of this page as well as CSM page to its default values automatically. (Default: Disabled)

∽ Primary Video Ignore

If software will detect that due to the Policy settings, Option ROM of Primary Video Device will not dispatch, it will ignore this device policy settings, and restore it to Enable automatically. (Default: Enabled)

∽ On Board Display Controller

Enables or disables the onboard display controller. (Default: Enabled)

∽ On Board Network Controller

Enables or disables the onboard network controller. (Default: Enabled)

∽ Slot #1~#12 Empty

Enables or disables Option ROM execution for selected slot. (Default: Enabled)

PCI Subsystem Settings

∽ Above 4G Decoding

Enables or disables 64-bit capable devices to be decoded in above 4 GB address space (only if your system supports 64-bit PCI decoding). Set to **Enabled** if more than one advanced graphics card are installed and their drivers are not able to be launched when entering the operating system (because of the limited 4 GB memory address space). (Default: Disabled)

☞ SR-IOV Support

If system has SR-IOV capable PCIe devices, this option enables or disables single root IO Virtualization support. (Default: Disabled)

☞ BME DMA Mitligation

Re-enable bus master attribute disabled during PCI enumeration for PCI bridges after SMM locked. (Default: Disabled)

∽ Hot-Plug Support

Globally enables or disables hot plug support for the entire system. If system has hot plug capable slots and this option set to **Enabled**, it provides a setup screen for selecting PCI resource padding for hot plug. (Default: Enabled)

∽ I210 LAN1/LAN2, X550 LAN3/LAN4

Globally enables or disables hot plug support for the entire system. If system has hot plug capable slots and this option set to **Enabled**, it provides a setup screen for selecting PCI resource padding for hot plug. (Default: Enabled)

USB Configuration

∽ Legacy USB Support

Allows USB keyboard/mouse to be used in MS-DOS. (Default: Enabled)

∽ XHCI Hand-off

Determines whether to enable XHCI Hand-off feature for an operating system without XHCI Hand-off support. (Default: Enabled)

∽ USB Mass Storage Driver Support

Enables or disables support for USB storage devices. (Default: Enabled)

Port 60/64 Emulation

Enables or disables emulation of I/O ports 64h and 60h. This should be enabled for full legacy support for USB keyboards/mice in MS-DOS or in operating system that does not natively support USB devices. (Default: Disabled)

☞ USB transfer time-out

The time-out value for Control, Bulk, and Interrupt transfers. (Default: 20 sec)

Device reset time-out

USB mass storage device Start Unit command time-out. (Default: 20 sec)

Device power-up delay

Maximum time the device will take before it properly reports itself to the Host Controller. Auto uses default vale: for a Root port it is 100 ms, for a Hub port the delay is taken from Hub descriptor. (Default: Auto)

Mass Storage Devices

Displays a list of connected USB mass storage devices. This item appears only when a USB storage device is installed.

Network Stack Configuration

Over the stack of the stack

Disables or enables booting from the network to install a GPT format OS, such as installing the OS from the Windows Deployment Services server. (Default: Enabled)

☞ IPv4 PXE Support

Enables or disables IPv4 PXE Support. This item is configurable only when Network Stack is enabled.

☞ IPv4 HTTP Support

Enables or disables HTTP boot support for IPv4. This item is configurable only when **Network Stack** is enabled.

☞ IPv6 PXE Support

Enables or disables IPv6 PXE Support. This item is configurable only when Network Stack is enabled.

☞ IPv6 HTTP Support

Enables or disables HTTP boot support for IPv6. This item is configurable only when **Network Stack** is enabled.

☞ PXE boot wait time

Allows you to configure how long to wait before you can press <Esc> to abort the PXE boot. This item is configurable only when **Network Stack** is enabled.

Media detect count

Allows you to set the number of times to check the presence of media. This item is configurable only when **Network Stack** is enabled.

CSM Configuration

CSM Support

Enables or disables UEFI CSM (Compatibility Support Module) to support a legacy PC boot process.

- ➡ Enabled Enables UEFI CSM.
- ➡ Disabled Disables UEFI CSM and supports UEFI BIOS boot process only.

☞ GateA20 Active

➡ Upon Request GA20 can be disabled using BIOS services. (Default)

➡ Always GA20 cannot be disabled.

This option is useful when any RT code is executed above 1 MB. This item is configurable only when **CSM Support** is set to **Enabled**.

Option ROM Messages

Set display mode for Option ROM. Options available: Force BIOS, Keep Current. This item is configurable only when **CSM Support** is set to **Enabled**.

INT19 Trap Response

Configures BIOS reaction on INT19 trapping by Option ROM.

- ► Immediate The system executes the trap right away.
- ✤ Postponed The system executes the trap during legacy boot.

This item is configurable only when CSM Support is set to Enabled.

Native NVME OPROM Support

Determines NVME OPROM execution policy for devices. This item is configurable only when **CSM Support** is set to **Enabled**.

☞ Boot option filter

Controls Legacy/UEFI ROMs priority.

- ➡ UEFI and Legacy Disables option ROM.
- ➡ Legacy only Enables legacy option ROM only.
- ➡ UEFI only Enables UEFI option ROM only.

This item is configurable only when CSM Support is set to Enabled.

Over the second seco

Allows you to select whether to enable the legacy option ROM for the LAN controller.

- ➡ Legacy Enables legacy option ROM only.
- ➡ UEFI Enables UEFI option ROM only.
- This item is configurable only when CSM Support is set to Enabled.

Storage

Allows you to select whether to enable the UEFI or legacy option ROM for the storage device controller.

▶ Legacy
 ▶ UEFI
 Enables legacy option ROM only.
 ▶ UEFI
 Enables UEFI option ROM only.

This item is configurable only when **CSM Support** is set to **Enabled**.

〜 Video

Allows you to select whether to enable the UEFI or Legacy option ROM for the graphics controller.

➡ Legacy Enables legacy option ROM only.

➡ UEFI Enables UEFI option ROM only.

This item is configurable only when CSM Support is set to Enabled.

Other PCI devices

Allows you to select whether to enable the UEFI or Legacy option ROM for the PCI device controller other than the LAN, storage device, and graphics controllers.

➡ Legacy Enables legacy option ROM only.

► UEFI Enables UEFI option ROM only.

This item is configurable only when CSM Support is set to Enabled.

NVMe Configuration

Displays information on your M.2 NVME PCIe SSD if installed.

- Offboard SATA Controller Configuration Enables or disables the SATA controllers integrated in the Chipset.
- AMD Mem Configuration Status Displays memory configuration status.

RAM Disk Configuration Press <Enter> to add/remove RAM disks.

- T1s Auth Configuration Press <Enter> to select T1s Auth Configuration.
- **iSCSI Configuration** Configure the iSCSI parameters.
- Intel(R) I210 Gigabit Network Connection This sub-menu provides information on LAN configuration and related configuration options.
- VLAN Configuration Press <Enter> to configure VLAN.
- MAC IPv4/IPv6 Network Configuration Press <Enter> to configure IPv4/IPv6 network parameters.

Inter(R) Ethernet Controller X550 Press <Enter> to configure 10 Gigabit Ethernet device parameters.

Driver Health

Provides health status for the drivers/controllers.

2-4 PBS

Aptio Setup Utilit Main Advanced PBS	<mark>y – Copyright (C)</mark> Chipset Server M≬	2021 American Megatrends, Inc. «mt Security Boot Save & Exit
▶ AMD Firmware Version		▲ Show all of AMD Firmware Version
NVMe RAID mode	[Disabled]	
SlimLine PCIE/SATA Switch 1	[PCIe]	
SlimLine PCIE/SATA Switch 2	[PCIe]	
PCIe Slot1 Configuration	[×16 Mode]	
PCIe Slot2 Configuration	[x8 Mode]	→+: Select Screen
PCIe Slot3 Configuration	[x16 Mode]	†↓: Select Item Enter: Select
PCIe Slot4 Configuration	[x16 Mode]	+/-: Change Opt. F1: General Help
PCIe Slot5 Configuration	[×16 Mode]	F2: Previous Values F3: Optimized Defaults
		ESC: Exit
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AMD Firmware Version

The sub-menu displays the information of AMD Firmware.

∽ NVMe RAID mode

Enables or disables the NVMe RAID mode. (Default: Disabled)

- SlimLine PCIE/SATA Switch 1/Switch 2 The signals are auto switched by HW detection. Options are: PCIe, SATA. (Default: PCIe)
- PCIe Slot1 Configuration Allows you to configure the PCIEX16_1 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode)
- PCIe Slot2 Configuration Allows you to configure the PCIEX8_2 slot. Options are: x8 Mode, X4X4 Mode. (Default: x8 Mode)
- PCIe Slot3 Configuration Allows you to configure the PCIEX16_3 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode)
- PCIe Slot4 Configuration Allows you to configure the PCIEX16_4 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode)
 PCIe Slot5 Configuration
- Allows you to configure the PCIEX16_5 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode) C PCIe Slot6 Configuration

Allows you to configure the PCIEX16_6 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode)

- PCIe Slot7 Configuration Allows you to configure the PCIEX16_7 slot. Options are: x16 Mode, X4X4X4X4 Mode. (Default: x16 Mode)
- Thunderbolt Support Enables or disables the Thunderbolt function. (Default: Disabled)

2-5 Chipset

	A; Main	otio Setup Advanced	Utility - Copy PBS Chipset	right (C Server I) 2021 Amer Mgmt Secur	ican Megatrends, Inc. ity Boot Save & Exit
•	South	Bridge Bridge			- <u></u>	★: Select Screen 1: Select Screen 1: Select Item Enter: Select 4/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit
)	/ersion 2.2	20,1276. Copyr:	lght (C) :	2021 America	an Megatrends, Inc.

- South Bridge
 - SB USB Configuration This page allows you to configure the SB USB ports.
 - Rom Armor
 Enables or disables Rom Armor.

North Bridge

- ∽ Total Memory Displays the total memory information.
- Socket 0 Information Displays the information related to Socket 0.

2-6 Server Mgmt

Main Advanced PBS	Chipset Server Mgmt	Security Boot Save & Exit
BMC Self Test Status	PASSED	▲ Enable/Disable
BMC Device ID	32	interfaces to
BMC Device Revision	81	communicate with BMC
BMC Firmware Revision	1.00	
IPMI Version	2.0	
Wait For BMC	[Disabled]	
FRB-2 Timer	[Enabled]	
FRB-2 Timer timeout	6	
FRB-2 Timer Policy	[Do Nothing]	→+: Select Screen
OS Watchdog Timer	[Disabled]	↑↓: Select Item
OS Wtd Timer Timeout	10	Enter: Select
OS Wtd Timer Policy	[Reset]	+/−: Change Opt.
		F1: General Help
System Event Log		F2: Previous Values
View FRU information		F3: Optimized Defaults
Bmc self test log		▼ F4: Save & Exit
		ESC: Exit

☞ BMC Support

Enables or disables interfaces to communicate with BMC. (Default: Enabled)

☞ Wait For BMC

Allows you to determine whether to wait for BMC response for specified time out. In PILOTII, BMC starts at the same time when BIOS starts during AC power ON. It takes around 30 seconds to initialize Host to BMC interfaces. (Default: Disabled)

FRB-2 Timer

Enables or disables the FRB-2 Timer. (Default: Enabled)

FRB-2 Timer timeout Enters value between 1 to 30 minute(s) for FRB-2 Timer Expiration. This item is available when FRB-2 Timer is set to Enabled.

☞ FRB-2 Timer Policy

Configures how the system should respond if the FRB-2 Timer expires. This item is available when **FRB-2** Timer is set to **Enabled**. Options are: Do Nothing (default), Reset, Power Down, and Power Cycle.

∽ OS Watchdog Timer

Enables or disables the OS Watchdog Timer function. (Default: Disabled)

∽ OS Wtd Timer Timeout

Enters value between 1 to 30 minute(s) for OS Boot Watchdog Timer Expiration. This item is available when **OS Watchdog Timer** is set to **Enabled**.

∽ OS Wtd Timer Policy

Configures how the system should respond if the OS Boot Watchdog Timer expires. This item is available when **OS Watchdog Timer** is set to **Enabled**. Options are: Do Nothing, Reset (default), Power Down, and Power Cycle.

System Event Log

Press [Enter] to change the SEL event log configuration.

- SEL Components
 Fractions of displace the supert leaving for super/assesses and a during best in
 - Enables or disables the event logging for error/progress codes during boot. (Default: Enabled)
- Erase SEL

Chooses options for erasing SEL. Options are: No (default), Yes, On next reset, Yes, On every reset.

☞ When SEL is Full

Chooses options reactions to a full SEL. Options are: Do nothing (default), Erase Immediately, Delete Oldest Record.

∽ Log EFI Status Codes

Enables or disables the logging of EFI Status Codes. Options are: Disabled, Both, Error code (default), Progress code.

View FRU information

This page displays the basic system ID information, as well as system product information. Items on this page are non-configurable.

Bmc self test log

Logs the report returned by BMC self test command.

Erase Log

Selects the options for ease log. Options are: Yes, On every reset (default), No.

∽ When log if full

Selects the action to be taken when log is full. Options are: Clear Log (default), Do not log any more.

BMC network configuration

Press [Enter] to configure BMC network parameters.

∽ Configuration Address source

Selects to configure LAN channel parameters statically or dynamically (by BIOS or BMC). **Unspecified** will not modify any BMC network parameters during BIOS phase. Options are: Unspecified (default), Static, DynamicBmcDhcp, DynamicBmcNonDhcp.

∽ Station IP address

Enters IP Address. This item is available when Configuration Address source is set to Static.

Subnet mask

Enters Subnet mask. This item is available when Configuration Address source is set to Static.

Router IP address Enters Router IP address. This item is available when Configuration Address source is set to Static.

∽ Router MAC address

Enters Router MAC address. This item is available when **Configuration Address source** is set to **Static**.

☞ IPv6 Support

Enables or disables IPv6 support. (Default: Enabled)

∽ Configuration Address source

Selects to configure LAN channel parameters statically or dynamically (by BIOS or BMC). **Unspecified** will not modify any BMC network parameters during BIOS phase. Options are: Unspecified (default), Static, DynamicBmcDhcp.

Station IPv6 address Enters IPv6 Address. This item is available when Configuration Address source is set to Static.

∽ Prefix Length

Changes the prefix length. This item is available when Configuration Address source is set to Static.

∽ Configuration Router Lan1/Lan2 Address source

Selects to configure LAN channel parameters statically or dynamically (by BIOS or BMC). **Unspecified** will not modify any BMC network parameters during BIOS phase. Options are: Unspecified (default), Static, DynamicBmcDhcp.

- IPv6 Router IP Address Changes IPv6 Router1 IP Address. This item is available when Configuration Router Lan Address source is set to Static.
- IPv6 Router Prefix Length Changes the prefix length. This item is available when Configuration Router Lan Address source is set to Static.
 IPv6 Router Prefix Value

Changes the IPv6 Router prefix value. This item is available when **Configuration Router Lan Address** source is set to **Static**.

View System Event Log

Press [Enter] to view the system event log records.

BMC User Settings

Press [Enter] to add new BMC user.

2-7 Security

Aptio Setup Utility – Copyright (C) 2021 Ameri Main Advanced PBS Chipset Server Mgmt <mark>Securi</mark>	can Megatrends, Inc. ty Boot Save & Exit
Password Description If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup. If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights. The password length must be in the following range: Minimum length 3 Maximum length 20 Administrator Password User Password	Set Administrator Password ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults
Version 2.20.1276. Copyright (C) 2021 America	ESC: Exit

Administrator Password

Allows you to configure an administrator password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. Differing from the user password, the administrator password allows you to make changes to all BIOS settings.

User Password

Allows you to configure a user password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. However, the user password only allows you to make changes to certain BIOS settings but not all. To cancel the password, press <Enter> on the password item and when requested for the password, enter the correct one first. When prompted for a new password, press <Enter> without entering any password. Press <Enter> again when prompted to confirm.

NOTE: Before setting the User Password, be sure to set the Administrator Password first.

2-8 Boot

Aptio Setup Utility Main Advanced PBS (<mark>y – Copyright (C) 2021 Ame</mark> Chipset Server Mgmt Secu	rican Megatrends, Inc. rity Boot Save & Exit
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot Boot Mode	[[On] [Enabled] [UEFI without Secure boot]	▲ Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Boot Option Priorities Boot Option #1	[UEFI: PXE IPv4 Intel(R) I210 Gigabit	
Boot Option #2	Network Connection] [UEFI: PXE IPv4 Intel(R) I210 Gigabit Network Connection]	++: Select Screen fi: Select Item Enter: Select +/-: Change Ont
Boot Option #3	[UEFI: PXE IPv4 Intel(R) Ethernet Controller X550]	F1: General Help F2: Previous Values F3: Optimized Defaults ▼ F4: Save & Exit ESC: Exit
Version 2.20.1276	. Copyright (C) 2021 Ameri	can Megatrends, Inc.

∽ Setup Prompt Timeout

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

∽ Bootup NumLock State

Enables or disables Numlock feature on the numeric keypad of the keyboard after the POST.

Allows you to determine whether to display the GIGABYTE Logo at system startup. (Default: Enabled)

☞ Boot Mode

Selects the boot mode. Options are Legacy Only, UEFI without Secure boot, UEFI with Secure boot.

∽ Boot Option #1/2/3/4/5

Specifies the boot order for a specific device type.

☞ Fast Boot

Enables or disables Fast Boot to shorten the OS boot process. (Default: Enabled)

SATA Support

Last Boot SATA Devices Only Except for the previous boot drive, all SATA devices are disabled before the OS boot process completes. (Default)

All SATA Devices All SATA devices are functional in the operating system and during the POST.
 HDD Only Except for the previous boot drive, all SATA devices are disabled before the OS boot process completes.

This item is available only when Fast Boot is set to Enabled.

∽ NVMe Support

Allows you to enable or disable NVMe device(s). (Default: Enabled) This item is available only when **Fast Boot** is set to **Enabled**.

☞ VGA Support

Allows you to select which type of operating system to boot. Auto Enables legacy option ROM only. EFI Driver Enables EFI option ROM. (Default) This item is available only when **Fast Boot** is set to **Enabled**.

☞ USB Support

- Disabled
 All USB devices are disabled before the OS boot process completes.
- Full Initial All USB devices are functional in the operating system and during the POST. (Default)

Partial Initial Part of the USB devices are disabled before the OS boot process completes.
 This item is available only when **Fast Boot** is set to **Enabled**.

☞ PS2 Devices Support

Enables or disables the PS/2 devices be functioned in the operating system and during the POST. This item is available only when **Fast Boot** is set to **Enabled**. (Default: Enabled)

∽ NetWork Stack Driver Support

Enables or disables booting from the network. This item is available only when **Fast Boot** is set to **Enabled**. (Default: Disabled)

☞ Redirection Support

Enables or disables Redirection function. This item is available only when **Fast Boot** is set to **Enabled**. (Default: Disabled)

2-9 Save & Exit

Aptio Setup Utility – Copyright (C) 2021 Amer Main Advanced PBS Chipset Server Mgmt Secur	ican Megatrends, Inc. ity Boot Save & Exit
Save Options Save Changes and Exit Discard Changes and Exit	 Exit system setup after saving the changes.
Save Changes and Reset Discard Changes and Reset	
Save Changes Discard Changes	
Default Options Restore Defaults Save as User Defaults Restore User Defaults	++: Select Screen 1J: Select Item Enter: Select +/-: Change Opt. F1: General Help
Boot Override UEFI: PXE IPv4 Intel(R) I210 Gigabit Network Connection	F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1276. Copyright (C) 2021 Americ	an Megatrends, Inc.

Save Changes and Exit

Press <Enter> on this item and select **Yes**. This saves the changes to the CMOS and exits the BIOS Setup program. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

Discard Changes and Exit

Press <Enter> on this item and select Yes. This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Select No or press <Esc> to return to the BIOS Setup Main Menu.

∽ Save Changes and Reset

Press <Enter> on this item and select **Yes** to save the changes to the CMOS. Select **No** or press <Esc> to return to the BIOS Setup Main Menu. Reboot the system after saving the changes.

Discard Changes and Reset

Press <Enter> on this item and select **Yes** to cancel the BIOS changes. Select **No** or press <Esc> to return to the BIOS Setup Main Menu. Reboot the system without saving any changes.

Save Changes

Press <Enter> on this item and select **Yes** to save the changes to the CMOS. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

Discard Changes

Press <Enter> on this item and select **Yes** to cancel the BIOS changes. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

☞ Restore Defaults

Press <Enter> on this item and select **Yes** to load the BIOS factory default settings. The BIOS defaults settings help the system to operate in optimum state. Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values.

Save as User Defaults

Save to current BIOS settings as user-defined default settings.

Restore User Defaults

Load the user-define default settings for all BIOS options.

Boot Override

Allows you to select a device to boot immediately. Press <Enter> on the device you select and select Yes to confirm. Your system will restart automatically and boot from that device.

Chapter 3 Application

BMC Web

You can use the IP from BIOS Setup Manu to connect to BMC Web UI. For example, login to BMC Web using the link https://10.1.9.89.

Login



After entering the IP address into web browser, you can see the login page. You can enter your username and the password (default username is **admin**, default password is **admin**), select the language, and then click on the **Sign me in button** to enter the Web UI.

Dashboard

WRX80-SU8	=				Z A	US - English	• Sync	C Refresh	admin -
Himmener information FL0.220006 Dec 36 2003 11.07.27 CST Host Online	Dashboard Control Panel							4 Home	- Dashboard
Qalek Links. *	0 d 2 hrs	66	π.	5					
 Dashboard 	BMC Power-On Hours	Pending	: Deassertions	Access Logs					
🏟 Sensor			More info O		More info 🖸				
O FRU Information	🕰 Today (a)	Details	Ω 30 days (₀)	Details	A Sensor Monitoring - 7 cri	ical sensors			
System Information					SYS_FAN2				
C Sensor Scanning					SYS_FAN3				
🕍 Logs & Reports 🔷	No events for today.		No events for last 20 days.		SYS_FAN4				
 Settings 					A SYS_FANS				
🖵 Remote Control					STS_FANG				
G Image Redirection					SYS_FAN7				
Power Control/UID					* Povo_veA1	1.56 1013			
🖌 Maintenance					Currently recovered				
🗢 Signout									

This page shows the overall monitoring information of the device status. The user warning messages and quick buttons are located at the top right of the Web UI.

- 1. Click on to check notification messages.
- Click on ▲ to check warning messages.
 Click on ^{tot-fragen} to change language.
- 4. Click on o sync to synchronize with latest sensor status.
- 5. Click on CRefresh to reload current page.
- 6. Click on **1** admin to logout.

Sensor

WRX80-SU8	=				US-English	• OSync ORefresh 🛓 admin •
Emean information F1.0.220006 Dec 34 2003 11.07.07 CST © Host Online	Sensor Reading Live reading of all	ensors.				# Home - Sensor Heading
Quick Links. *	Critical Sensors (8)					
 Dashboard 						
🚯 Sensor	ORpm :	1.56Volts	ORom .	Offpm	ORpm	CRpm
O FRU Information	(. 	(🐳); ((.),	(🕹) 🕹	(1 , *);
System Information	and the second sec	and the second s	and the second s	and the second s	and the second s	and the second s
Sensor Scanning	CPU_FAN1	P3V3_VBAT	SYS_FAN2	SYS_FAN3	SYS_FAN4	SYS_FAN5
Legi & Reports >	ORom	500Ram				
 Settings 		-(😴):				
🖵 Remote Control	and the second s	and the second s				
A Image Redirection	SYS_FAN6	SYS_FAN7				
O Power Control/UID						
	Ubiscrete Sensor States (10)					
🗢 Sign out	Sensor Name			State		
	BNC Watchdog					
	++ CPU Missing			State Asserted		
	O FP NMI Diag Int					
	IPHI Watchdog					
	W POLISING					

On this page, details for all the available sensors e.g. Name, Type, Status, Current Reading and Behavior are displayed. Sensor readings are available for Temperature, Fan, Watchdog and Voltage Sensors as well as for supported Discrete Sensors. This page will refresh automatically with the latest data retrieved from the database. Please note that there may be some delay in retrieving this live data. Sensors are organized by their Type and State (Critical, Discrete, Normal and Disabled).

Sensor Details

WRX80-SU8	=		US - English	• O Sync O Refresh 💄 admin •
Emmeans Information F1.0.220006 Dec 24 2020 11.07/27 CST © Heat Online	Sensor d	etail Al information about this average		# Home > Sensariheading > Sensariheading
Quick Links.		N1 Sensor Information		
 Dashboard 	1			Rpm
🚯 Sensor			Upper Non-Recoverable	NA
FRU Information			Upper Ontical	NA
System Information	E.		Upper Non-Critical	NA
Sensor Scanning			Lower Non-Critical	1200 Rpm
🕍 Logi & Reports >			Lower Ontical	800 Rpm
• Settings				Charge Thresholds
Remote Control		Time (HHAMK53)		
Image Redirection	Sensor	Events		
Power Control/UID	January 20	8		
📕 Maintenance				
🗢 Sign out	v	0: 53 CPU_FAN1 sensor of type fan logged a lower non critical going low		
	•	D: 54 CPU_FAN1 sensor of type fan logged a lower critical going low		
	December 3	017		
	٥	: 45 CPU_FAN1 sensor of type fan logged a lower non critical going low		

Click on any sensor to view more information about it. For each sensor, thresholds (if supported) and graphical representation of all associated events (read-only) are shown. You can enter the threshold values and click on **Save** to configure the threshold values. If you select a sensor from the Normal Sensors sections, a Live Widget is also displayed showing its behavior over time.

FRU Information

	WRX80-SU8	=				🖀 🛦 US-English 🔹 OSym	c 🖸 Refresh 💄 admin +
<u> </u>	Enneure information F1.0.220006 Dec 34 2029 11.07/27 CST © Heat Online	FRU Field Replacable Units					# Home - FRU
Quick	Linka. v	Available FRU Devices					
a Da		FRU Device ID	0~				
8 24		FRU Device Name	BOARD_FRU				
0 FR							
⊨ sy		Chassis Information		Board Information		Product Information	
• s		Chassis Information Area Format Version	1	Board Information Area Format Version	1	Product Information Area Format Version	1
IM 10		Chassis Type	Unspecified	Language	0	Language	0
• Se		Chassis Part Number	N/A	Nanufacture Date Time	Tue Dec 15 19:32:00 2020	Product Manufacturer	GIGAEVTE
🖵 Re		Chassis Serial Number	NA	Board Manufacturer	GIGABYTE	Product Name	WRX80-SU8
	are Redirection	Chassis Extra		Board Product Name	W9080-SU8	Product Part Number	N/A.
				Board Serial Number	V20040	Product Varsion	F1.0
0 10	we control of b			Board Part Number	N/A	Product Serial Number	V20340
× 14				FRU File ID		Asset Tag	
(e si				Board Extra		FRU File ID	
						Product Extra	

This page displays Basic Information, Chassis Information, Board Information, and Product Information for the BMC's FRU devices.

FRU Device ID

Select a FRU Device ID from the drop-down list to view the details of the device.

FRU Device Name

The device name of the selected FRU will be displayed.

System Information

WRX80-SU8	=					🛎 🔺 US	- English * O Sync	C Refresh	1 admin -
Enneversinformation F1.0.220006 Dec 24 2023 11.07.027 CST 0 Host Online	System Inf	ormation Some Devices Information						# Hone -	System information
Quick Links.	BIOS								
🚳 Sensor	Product	WKOBUSUB							
	Wendor	olgatyte 11.0							
	CPU								
	Index	1							
	Core	64							
	Frequency	2700							
	Brand	Advanced Micro Devices, Inc.							
	DIMM								
G Street	Index	8	index	7	Index	6	Index		5
	Frequency	0	Prequency	0	Trequency	D	Prequency		٥
	Size	0	Size		Size	0	Size		0
	Manufacturer		Nanufacturer		Hanufacturer		Nanufacturer		
	Serial Number	0	Serial Number	0	Serial Number	0	Serial Number		0

This page displays BIOS, CPU, and DIMM Device information list.

Sensor Scanning

WRX80-SU8	≡		S A US-Engli	sh • • • Sync	C Refresh	1 admin -
Ennware information F1.0.220006 Dec 34 2009 11.07 /27 CST © Host Online	Sensor Scanning Enable/Disable Sensor	kanning			# Hone	Sensor Scarning
Qalek Units. *	Sensor List					
Dashboard	Sensor	Enable / Disable				
🚯 Sensor	CPU_FAM1					
O FitU Information	SYS_FAN1					
System Information	SYS_FAN2	Ø				
C Sensor Scanning	SYS_FAN3					
Legs & Reports >	SYS_FAN4					
Settines	SYS_FANS	2				
	SYS_FANE	2				
	515_7401					
es sugeneure.com						
O Power Control/UID						
Maintenance						
Sign out						

In this page, you can set to enable or disable CPU FANs and System FANs scanning.

PUTUE DEVENTE DECEMBENT PUTUE DE VENTE PUTUE

This page displays the list of events incurred by the different sensors on this device. Click on a record to see the details of that entry. You can hover over the graph with your cursor to view the number of events by date. You can use the date range, sensor type, or sensor name filter options to view those specific events. Click **Clear Event Logs** option to delete all existing records for all sensors. Click **Download Event Logs** option to download the logs in a text file format.

System Log

WRX80-SU8	=																	10	A US	English	• Sync	C Refresh	1 admi	in -
Enneaux Information F1.0.220006 Dec 34 2009 11.07.07 CST © Host Online	Syste	stem	ו Log	All system	event logs																		kome – Syste	en Log
Quick Links.	1																							0
	Thesh	an bas Da				0			0															
🏚 Sensor	Piller	s by to	ne su	IT Date		0	End Date		0	ever	in caregory	y sum												_
FRU Information													Syster	m Log: 2 out	of 2 event er	stries								
	January	ary 201	18																					
	•	2	ID: 1 Jar	iuary 3rd 2	018, 8:08:3	13 pm	AMIDODDOBOB	02E0 🖡	ernek ken	nel ((5.42000)	0] Helper N	Iodule Driv	ver Version	1.2 -									
	6	5	ID: 2 Jar	iuary 3rd 2	018, 8:08:3	3 pm	AMIOCODOBOB	02E0 🕨	ernel: ken	nel (5.43000	0) Copyrig	ht (c) 2009	-2015 Ame	rican Megat	rends Inc								
PHI Event Log	0	0																						
 Settings 																								

This page displays logs of system events for this device (if the options have been configured). **Note:** Logs must be configured under "Settings/Log Settings/Advanced Log Settings" to display any entries. Filtering options are also available for this and all logs in this section.

Audit Log

	WRX80-SU8						S A US-English -	© Sync	C Refresh	1 admin -
<u> </u>	Homeore information F1.0.220006 Dec 24 2020 11.07/27 CST © Host Online	Audit	t Log All audit loga							ome - Auditing
Quick	Unics. •									0
e 0a		Elterh		- Technic	0					
6 9										
0 18					Audit Log: 5 out of 5 event entries					
₽ %		January	2018							
	isor Scanning	•	ID: 5 January 3rd 2018, 8:35:55 pm	AMI00DD080802E0	spx_restservice: spx_restservice [2434 : 2434 INFO]https Login from IP:10.1.5	0.142 usertadmin -				
LH 10		0	ID: 4 January 3rd 2018, 8:31:18 pm	AMI000D080802E0	adviserd: adviserd [2399 : 2410 INFO]KVM logout from IP:10.1.9.142 user:adm	nin -				
> 1 > 1	MI Event Log ystem Log	6	ID: 3 January 3rd 2018, 6:31:16 pm	AMIOCIDD080802E0	spx_restservice: spx_restservice [2434:2434 INFO]HTTPS logout from IP:10.	1.9.142 user:admin -				
	udit Log Ideo Log	•	ID: 2 January 3rd 2018, 8:24:43 pm	AMIOCODOBOBO2E0	adviserd: adviserd [2399 : 2410 INFO]kvm Login from IP:10.1.9.142 user:adm	in -				
• Se		0	ID: 1 January 3rd 2018, 8:24:01 pm	AMI00DD080802E0	spx_restservice: spx_restservice [2434 : 2434 INFO]https Login from IP:10.1.5	0.142 user:admin -				
P M		0								
A In										
O Po										
<i>⊁</i> ₩										
(e sj										

This page displays audit events for this device (if configured). **Note:** For configuration, go to "Settings/Log Settings/Advanced Log Settings."

Video Log

WRX80-SU8	=	🖀 🛦 US-English v OSync 🖓 Refresh 🎗 admin v
Enneare Information F1.0.220006 Dec 31 2020 11.07.027 CST © Host Online	Video Log at sides eventings	₩ Home > VidesLog.
Quick Links. *		0
 Dashboard 	Electrofita sturbus 0 - Eachan 0	
n Sensor		
FRU Information	Video Log: 0 out of 0 ovent entries	
System information	0	
C Sensor Scanning		
LALL Logs & Reports		
* PHI Event Log		
> Audit Log		
» Video Log		
O Settirga		
P Remote Control		
Image Redirection		
Power Control/UID		
✗ Maintenance		
🕒 Sign out		

This page displays available recorded video files (if the options have been configured). **Note:** For configuration, go to "Settings/Video Recording/Auto Video Settings/Video Trigger Settings."

Settings				
WRX80-SU8	=		a a t	IS-English • O Sync O Refresh 💄 admin •
Ennwarr.infarmation F1.0.220006 Dec 24 2023 11.07.27 CST © Host Online	Settings Configure BMC options			# Hone > Settings
Quick Links. * Dashboard	Captured 8500	Dade & Time	External User Services	KNW Mouse Setting
 Sensor FRU information 	E Los fettines.	Vector References	A Network Settings	FE PAM Order Settings
System Information Sensor Scanning	T	O ^C	M	*
Latt Logs & Reports	Platform Event Filter	Services	SMTP Settings	SSL Settings
O Settings	Curtaen Diseand			
Remote Control	ogsten Pitewen	User management.		
Power Control/UID				
🗲 Maintenance				
Ge Signout				

This page allows you to configure BMC options. The options are: Captured BSOD, Date & Time, External User Services, KVM Mouse Setting, Log Settings, Media Redirection Settings, Network Settings, PAM Order Settings, Platform Event Filter, Services, SMTP Settings, SSL Settings, System Firewall, and User Management.

Remote Control

3	WRX80-SU8	=	8 A	US - English	* OSync	C Refresh	1 admin -
a	Enneare information F1.0.220006 Dec 34 2009 11.07.02 CST Host Online	Remote Control Remote MM				# Hone	Remote Control
Quick L	tinks. •	H5Viewer					
 Sec. FRU 		€ taichthteine					
💷 Syst							
C Sen							
Left Log							
• Sett							
🖵 Ret							
(a) ins	ge Redirection						
O Pow							
📕 Mai							
(+ Sign							

On this page, you can remote control your host system on BIOS Setup or Operating System. Click the **Launch H5Viewer** button to launch the H5viewer window.

Remote Control- Example (BIOS Setup menu)

Aptio Setup Utility Rain Advanced AMD CBS	– Copyright (C) 2021 Amer S AKD PBS Chipset Serve	ican Megatrends, Inc. r Mgmt Security Boot →	
BIOS Information BIOS Vendor Corre Version Complancy Project Version Build Date and Time BHC Firmwore Revision System UUID	American Megatrends 5.17 UEF1 2.7; PI 1.6 MRX005U8-F3 03/03/2021 15:04:13 1.00 C900000-0000-58CD-140D -040F0303CE07	choose the system default language	
Access Level Memory Information Total Memory	Administrator Total Memory: 16384 MB (DDR4)	+: Select Screen 11: Select Item Enter: Select +/-: Change Opt. El: General Helo	
System Language System Date	(English) (Wed 01/03/2018)	F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit	
l Versian 2.20.1276.	Copyright (C) 2021 Americ	an Megatrends, Inc. 34	

This page shows the BIOS Setup settings.

Image Redirection

WRX80-SU8	=		8 A	JS - English *	O Sync	C Refresh	1 admin -
Ennearce Information F1.0.220006 Dec 31 2020 11.07.027 CST © Host Online	Image Redirection					# Home >	image Redirection
Quick Links. •	Remote images						
🚯 Sensor							
FRU Information							
System Information							
Sensor Scanning							
Legi & Reports							
O Settings							
P Remote Control							
🛆 Image Redirection							
Power Control/UID							
🔅 Sign out							

The displayed table shows remote images available to the BMC. You can start redirection or clear the images from here. Up to 4 images can be added for each image type, depending on your configuration.

Power Control/UID

WRX80-SU8	=	
Ennearciclamation F1.0.220006 Dec 24 2000 11.07.27 CST Host Online	Power Control on Host Server	
Quick Links.	Power Actions	0
	Host is currently on	
🙆 Sensor	Power Off	
	Power On	
	Power Cycle	
	Hard Reset	
	ACPI Shutdown	
		O Perform Action
	UID LED	
	UID Off	

On this page, you can remote control the power of your host system. Also, you can turn on/off the UID LED.

Maintenance

WRX80-SU8	=		Z A	US+English • O Sync O Refresh 💄 admin •
Encourage information F1.0.220006 Dec 34 2000 11.07.07 CST 0 Host Online	Maintenance			d Home > Maintenance.
Qatck Links	*		0	
 Dashboard 	Backup Configuration	Firmware Image Location	Firmware information	Firmware Update
	Δ.	+	5	
FRU Information	Preserve Configuration	Restore Configuration	Restore Factory Defaults	System Administrator

This page allows you to configure BMC options. The options are Backup Configuration, Firmware Image Location, Firmware Information, Firmware Update, Preserve Configuration, Restore Configuration, Restore Factory Defaults, and System Administrator.

Firmware Update

BMC Update Procedure:

- 1. Click on Maintenance > Firmware Update from the menu bar.
- 2. Select Update type to BMC and Firmware Image.
- 3. Click on Start firmware update.
- 4. Click on Preserve all Configurations.
- 5. Upload Public Key if needed.
- 6. Click on Start firmware update and click on OK from the warning message.
- 7. Verify for section based flashing. Selecting Full Flash is recommended.
- 8. Click on Flash selected sections and OK from the warning message.

BIOS Update Procedure:

- 1. Click on Maintenance > Firmware Update from the menu bar.
- 2. Select Update type to BIOS and Firmware Image.
- 3. Click on Start firmware update and click on OK from the warning message.
- 4. Click on Flash BIOS.

Regulatory Notices

United States of America, Federal Communications Commission Statement

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Product Name: Motherboard Trade Name: GIGABYTE Model Number: GA-WRX80-SU8-IPMI

Responsible Party – U.S. Contact Information: G.B.T. Inc. Address: 17358 Railroad street, City Of Industry, CA91748 Tel.: 1-626-854-9338 Internet contact information: https://www.gigabyte.com

FCC Compliance Statement:

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna
- · Increase the separation between the equipment and receiver.
- · Connect the equipment to an outlet on a circuit different from that to
- which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. This class B digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

European Union (EU) CE Declaration of Conformity

This device complies with the following directives: Electromagnetic Compatibility Directive 2014/30/EU, Low-voltage Directive 2014/35/ EU, RoHS directive (recast) 2011/65/EU & the 2015/863 Statement. This product has been tested and found to comply with all essential requirements of the Directives.

European Union (EU) RoHS (recast) Directive 2011/65/EU & the European Commission Delegated Directive (EU) 2013/863 Statement GIGAPTTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE, PBB, DEHP, BBP, DBP and DIBP). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

European Union (EU) Community Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2012/19/ EU WEEE (Waste Electrical and Electronic Equipment) (recast) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

End of Life Directives-Recycling



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

Déclaration de Conformité aux Directives de l'Union européenne (UE)

Cet appareil portant la marque CE est conforme aux directives de l'UE suivantes: directive Compatibilité Electromagnétique 2014/30/ UE, directive Basse Tension 2014/35/UE et directive RoHS II 2011/65/ UE. La conformité à ces directives est évaluée sur la base des normes européennes harmonisées applicables.

European Union (EU) CE-Konformitätserklärung

Dieses Produkte mit CE-Kennzeichnung erfüllen folgenden EU-Richtlinien: EMV-Richtlinie 2014/30/EU, Niederspannungsrichtlinie 2014/30/EU und RoHS-Richtlinie 2011/65/EU erfüllt. Die Konformität mit diesen Richtlinien wird unter Verwendung der entsprechenden Standards zur Europäischen Normierung beurteilt.

CE declaração de conformidade

Este produto com a marcação CE estão em conformidade com das seguintes Diretivas UE: Diretiva Baixa Tensão 2014/33/EU; Diretiva CEM 2014/30/EU; Diretiva RSP 2011/65/UE. A conformidade com estas diretivas é verificada utilizando as normas europeias harmonizadas.

CE Declaración de conformidad

Este producto que llevan la marca CE cumplen con las siguientes Directivas de la Unión Europea: Directiva EMC (2014/30/EU), Directiva de bajo voltaje (2014/35/EU), Directiva RoHS (recast) (2011/65/EU). El cumplimiento de estas directivas se evalúa mediante las normas europeas armonizadas.

Dichiarazione di conformità CE

Questo prodotto è conforme alle seguenti direttive: Direttiva sulla compatibilità elettromagnetica 2014/30/UE, Direttiva sulla bassa tensione 2014/35/UE, Direttiva RoHS (rifusione) 2011/65/UE. Questo prodotto è stato testato e trovato conforme a tutti i requisiti essenziali delle Direttive.



GIGA-BYTE TECHNOLOGY CO., LTD.

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GIGABYTE eSupport

To submit a technical or non-technical (Sales/Marketing) question, please link to: https://esupport.gigabyte.com

