GA-C621-WD12(-IPMI)

User's Manual Rev. 1001



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Box Contents

- GA-C621-WD12 or GA-C621-WD12-IPMI motherboard
- Motherboard driver disk
- ☑ I/O Shield
- $\ensuremath{\boxdot} \ensuremath{\mathbb{Q}}$ Quick Installation Guide
- ✓ Ten SATA cables
- ☑ One VGA bracket *
- One COM port bracket *

Only for the GA-C621-WD12-IPMI.

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	 Support for Intel® Xeon® Scalable Processors in the LGA 3647 package Dual Socket P (Square) with 2 UPI support of up to 10.4 GT/s, CPU TDP support up to 205W
Chipset	Intel® C621 Chipset
Memory	 12 x DDR4 DIMM sockets supporting up to 1.5 TB of system memory 6 channel memory architecture (6 channel per CPU) Support for DDR4 2666 MHz memory modules if use a Skylake CPU Support for DDR4 2933 MHz memory modules if use a Cascade lake CPU Support for ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS memory modules
Audio	 Realtek[®] ALC1220-VB codec High Definition Audio 2/4/5.1/7.1-channel Support for S/PDIF Out
	2 x Intel [®] 210AT GbE LAN chips (10/100/1000 Mbit)
Expansion Slots	 4 x PCI Express x16 slots, running at x16 3 x PCI Express x16 slots, running at x8 (All of the PCI Express x16 slots conform to PCI Express 3.0 standard.)
Storage Interface	 Chipset: 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2 SSD support) 8 x SATA 6Gb/s connectors (I-SATA0~I-SATA7) 2 x SATA 6Gb/s connectors (S-SATA0, S-SATA1) 2 x U.2 connectors Support for RAID 0, RAID 1, RAID 5, and RAID 10
USB USB	 Chipset: 1 x USB Type-C[™] port on the back panel, with USB 3.1 Gen 2 support 1 x USB 3.1 Gen 2 Type-A ports (red) on the back panel 7 x USB 3.1 Gen 1 ports (4 ports on the back panel, 1 port onboard, 2 ports available through the internal USB header) 2 x USB 2.0/1.1 ports available through the internal USB header
Internal Connectors	 1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x 6-pin ATX 12V power connector 2 x CPU fan headers 5 x system fan headers 1 x M.2 Socket 3 connector 10 x SATA 6Gb/s connectors 2 x U.2 connectors 2 x U.2 connectors 2 x SATA DOM power headers 1 x PMBus connector 1 x Intel[®] VROC Upgrade Key header 1 x front panel header 1 x front panel audio header 1 x USB 3.1 Gen 1 header 1 x USB 3.1 Gen 1 port

Internal	 1 x USB 2.0/1.1 header
Connectors	 1 x Trusted Platform Module (TPM) header
	1 x serial port connector
	 1 x chassis intrusion header
	3 x SATA SGPIO headers
	 1 x SMD_VMD header
	 1 x IPMB connector *
	1 x SMB connector
	1 x TBT connector
	 1 x BMC_UART connector *
	1 x VGA connector *
	1 x wake on LAN header
	1 x speaker header
	1 x Clear CMOS jumper
	 1 x VGA jumper *
	 1 x Watch-Dog timer jumper *
	1 x VRM SMB Clock jumper
	1 x VRM SMB Data jumper
	1 x power button
	1 x reset button
Back Panel	 1 x PS/2 keyboard/mouse port
Connectors	 1 x USB Type-C[™] port, with USB 3.1 Gen 2 support
	 1 x USB 3.1 Gen 2 Type-A port (red)
	 4 x USB 3.1 Gen 1 ports
	 2 x USB 2.0/1.1 ports
	 2 x RJ-45 ports
	 1 x optical S/PDIF Out connector
	 5 x audio jacks
I/O Controller	ASPEED® AST2500 BMC chip
Hardware	Voltage detection
Monitor	Temperature detection
	Fan speed detection
	Fan speed control
	* Whether the fan speed control function is supported will depend on the fan you install.
BIOS	1 x 256 Mbit flash
	Use of licensed AMI BIOS
	 PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Operating	Operating temperature: 10°C to 40°C
Properties	 Operating humidity: 8 - 80%
	 Non-operating temperature: -40°C to 70°C
	 Non-operating humidity: 5% - 95%
Form Factor	EEB Form Factor; 30.5cm x 33.0cm

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

* Only for the GA-C621-WD12-IPMI.

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.

6 Channel Memory Configuration

This motherboard supports 6 Channel Technology. After the memory is installed, the BIOS will automatically detect the specifications and capacity of the memory.

The twelve DDR4 memory sockets are divided into 6 channels and each channel has two memory sockets as following:

- ➤ Channel 1: P1-DIMM-A1 (For CPU 1)/P2-DIMM-G1 (For CPU 2)
- ➤ Channel 2: P1-DIMM-B1 (For CPU 1)/P2-DIMM-H1 (For CPU 2)
- → Channel 3: P1-DIMM-C1 (For CPU 1)/P2-DIMM-J1 (For CPU 2)
- ➤ Channel 4: P1-DIMM-D1 (For CPU 1)/P2-DIMM-K1 (For CPU 2)
- ➤ Channel 5: P1-DIMM-E1 (For CPU 1)/P2-DIMM-L1 (For CPU 2)
- → Channel 4: P1-DIMM-F1 (For CPU 1)/P2-DIMM-M1 (For CPU 2)

Due to CPU limitations, read the following guidelines before installing the memory in 6 Channel mode.

- 1. 6 Channel mode cannot be enabled if only one memory module is installed.
- When enabling 6 Channel mode with two memory modules, it is recommended that memory of the same capacity, brand, speed, and chips be used.



1-5 Back Panel Connectors



USB 2.0/1.1 Port Over 1 Over

The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices.

PS/2 Keyboard/Mouse Port

Use this port to connect a PS/2 mouse or keyboard.

USB 3.1 Gen 2 Type-A Port (Red)

The USB 3.1 Gen 2 Type-A port supports the USB 3.1 Gen 2 specification and is compatible to the USB 3.1 Gen 1 and USB 2.0 specification. Use this port for USB devices.

ISB Type-C[™] Port

The reversible USB port supports the USB 3.1 Gen 2 specification and is compatible to the USB 3.1 Gen 1 and USB 2.0 specification. Use this port for USB devices.

GbE LAN Port

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

C		
_	LAN Port	

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

USB 3.1 Gen 1 Port

The USB 3.1 Gen 1 port supports the USB 3.1 Gen 1 specification and is compatible to the USB 2.0 specification. Use this port for USB devices.

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/Side Speaker Out

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		~	~	v
0	Line In/Side Speaker Out				¥
0	Line Out/Front Speaker Out	~	~	~	~
0	Mic In/Side Speaker Out				~



If you want to install a Side Speaker, you need to retask either the Line in or Mic 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 HD Audio Manager application.



- When removing the cable connected to a back panel connector, first remove the cable from your device and then remove it from the motherboard.
- 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.



1	BMC_VGA *	11	BMC_UART *	21	CLR_CMOS	31	U2_1~2
2	BMC_WATCHD*	12	SATA_DOM0	22	CI	32	PWR_SW
3	COM	13	SATA_DOM1	23	CPU_FAN1~2	33	RST_SW
4	SMB_IPMB*	14	VRM_SCL	24	SYS_FAN1~5	34	S_SGPIO
5	I_SGPIO1	15	VRM_SDA	25	ATX	35	F_AUDIO
6	I_SGPIO2	16	FUSB30	26	ATX8P_1~2	36	VGA*
7	WOL	17	VROC	27	ATX12V 6P	37	SMB_VMD
8	SMB	18	FUSB2	28	S-SATA0~1	38	SPEAKER
9	TPM	19	F_PANEL	29	I-SATA0~7	39	BMC_LED2 *
10	ТВТ	20	PMBUS	30	PCIEX4_M2	40	BAT



Read the following guidelines before connecting external devices:

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.

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) COM

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 *

Pin	Definition
1	SMB_DATA
2	GND
3	SMB_CLK
4	NA

* Only for the GA-C621-WD12-IPMI.

- 5) I_SGPIO1 (For I-SATA0~3)
- 6) I_SGPIO2 (For I-SATA4~7)

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

7) WOL (Wake On Lan)

1 • •

Pin	Definition
1	Power (5V)_AUX
2	GND
3	WAKE_EN

8) SMB

Pin	Definition
1	SMB_DATA
2	GND
3	SMB_CLK

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

1		2
1	1 · 1	1-
	[••]	
	∥ ••∣	
1	••	12

Pin	Definition	Pin	Definition
1	LPC_IO0	2	Power (3.3V)
3	LPC_IO1	4	-
5	LPC_IO2	6	TPM_CLK
7	LPC_IO3	8	GND
9	LFRAME#	10	NA
11	SERIRQ	12	TPM_RST

10) TBT



Pin	Definition
1	FORCE_POWER
2	SCI_EVENT
3	SLP_S3
4	SLP_S5
5	GND

11) BMC_UART *

Pin	Definition
1	BMC_UART_TXD
2	GND
3	BMC_UART_RXD
4	Power (5V)

12) SATA_DOM0 (SATA DOM0 Power Header) 13) SATA_DOM1 (SATA DOM1 Power Header)

1

Pin	Definition
1	Power (5V)
2	GND
3	NA

14) VRM_SCL (For VRM SMB_CLK)15) VRM_SDA (For VRM SMB_DATA)

Pin	Definition
1-2	SMB to PCH
2-3	SMB to BMC

* Only for the GA-C621-WD12-IPMI.

16) FUSB30

20

11

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

17) VROC (RAID Key for CPU NVMe SSD)

[] 1

Pin	Definition
1	GND
2	Power (3.3V)_AUX
3	GND
4	PCH RAID KEY

18) FUSB2

V)
÷

19) F_PANEL

	Pin	Definition	Pin	Definition
1	1	Power LED+	2	5V Standby
Ē	3	-	4	ID LED+
E.	5	Power LED-	6	ID LED-
8	7	HDD LED+	8	System Status LED+
÷:	9	HDD LED1	10	System Status LED-
23 24	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-

20) PMBUS (Power supply I₂C Connector)

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Pin	Definition
1	SMB_CLK
2	SMB_DATA
3	PSU_ALERT
4	GND
5	Power (3.3V)

21) CLR_CMOS

1000

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

22) CI

8

Pin	Definition
1	Intrusion Input
2	GND

23) CPU_FAN1/CPU_FAN2

1		
	1	:[
CPU_FAN1	CI	PU_FAN2

Pin	Definition
1	GND
2	Power (12V)
3	FAN_TACH
4	FAN_PWM

24) SYS_FAN1~5



Pin	Definition
1	GND
2	Power (12V)
3	FAN_TACH
4	FAN_PWM

25) ATX (2x12 Main Power Connector)



26) ATX8P_1~2 (2x4, 12V Power Connectors)



27) ATX12V_6P (2x3, 12V Power Connectors)



28) S-SATA0~1 (SATA 6Gb/s Connectors, Supported by the Intel® PCH)



29) I-SATA0~7 (SATA 6Gb/s Connectors, Supported by the Intel® PCH)



30) PCIEX4_M2 (M.2 Socket 3 Connectors)



31) U2_1~2 (U2 Connector)



32) PWR_SW (Power Button)33) RST_SW (Reset Button)

<u></u>.

34) S_SGPIO (For S-SATA0~1)

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

35) F_AUDIO



36) VGA (Supported by the BMC) *

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Pin	Definition	Pin	Definition
1	VGA-R	2	VGA-G
3	VGA-B	4	NA
5	GND	6	GND
7	GND	8	GND
9	5V	10	GND
11	NA	12	DDC_DATA
13	H_SYNC	14	V_SYNC
15	DDC_CLK	16	-

* Only for the GA-C621-WD12-IPMI.

37) SMD_VMD (NVMe SMBUS Control Header)

	Pin	Definition	Pin	Definition
10	1	SMB_CPU1_NVME_CLK	2	SMB_CPU1_NVME_DATA
201	3	GND	4	GND
	5	SMB_CPU2_NVME_CLK	6	SMB_CPU2_NVME_DATA
	7	GND	8	-
	9	SMB_PCH_NVME_CLK	10	SMB_PCH_NVME_DATA

38) SPEAKER (Speaker Header)

10 10

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

39) BMC_LED2 (BMC Heartbeat LED) *

State	Description
Off	BMC Normal

40) BAT



* Only for the GA-C621-WD12-IPMI.

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. (Sample BIOS Version: WD12F1)



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 Project Version Build Date and Time Access Level	WD12F1 02/15/2019 18:54:05 Administrator	Choose the system default language
Platform Information Platform Processor PCH RC Revision BIDS ACM SINIT ACM	NO12 50654 - SKX UO LBG QS/FRQ - 16 - S1 0566.D03 1.7.1 1.7.0	
Memory Information Total Memory Usable Memory	32768 MB 32768 MB	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt
		F1: General Help F2: Previous Values
System Date System Time	[Sun 01/16/2000] [19:30:51]	F3: Optimized Defaults F4: Save & Exit ESC: Exit

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) 2019 American Main <mark>Advanced</mark> Platform Configuration Socket Configuration	Megatrends, Inc. Server Mgmt Security Boot
 Trusted Computing(TPM) NCT6665D Super ID Configuration Hardware Monitor Serial Port Console Redirection PCI Subsystem Settings USB Configuration CSM Configuration Network Stack Configuration INSEC Configuration Intel(R) I210 Gigabit Network Connection - 	Trusted Computing Settings
E010536:F9309348 Intel(A) 210 Gigabit Network Connection - E0:D5:SE:F5:D9:47	++: Select Screen H: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1274. Copyright (C) 2019 American M	egatrends, Inc. B4

Trusted Computing(TPM)

Enables or disables Trusted Platform Module (TPM).

NCT6685D Super IO Configuration

This section provides information on the super I/O chip and allows you to configure the serial port.

- Hardware Monitor
- ☞ Temperature Status Displays current CPU/system temperature.
- Fan Speed Status Displays current CPU fan/system fan speeds.
- Voltage Status Displays the current system voltages.

Serial Port Console Redirection

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

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).

USB Configuration

Legacy USB Support Allows USB keyboard/mouse to be used in MS-DOS.

∽ USB Mass Storage Driver Support

Enables or disables support for USB storage devices.

CSM Configuration

☞ CSM Support

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.

∽ HDD Connection Order

Some OS require HDD handles to be adjusted, i.e. OS ins installed onf drive 80h. (Default: Adjust)

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 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.

Thunderbolt(TM) Configuration

☞ TBT Root port Selector

Allows you to select Thunderbolt AIC location.

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.

☞ 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.

☞ IPSEC Certificate

Enables or disables the Internet Protocol Security. 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. (Default: 0)

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. (Default: 1)

iSCSI Configuration

Configure the iSCSI parameters.

Intel(R) I210 Gigabit Network Connection (Dual_Lan)

This sub-menu provides information on LAN configuration and related configuration options.

Intel(R) I210 Gigabit Network Connection (Dual_Lan)

This sub-menu provides information on LAN configuration and related configuration options.

2-4 Platform Configuration

Aptio Setup Ut: Main Advanced Platform Cor	ility – Copyright (C) 2019 Am nfiguration <mark>Socket Configura</mark>	erican Megatrends, Inc. tion Server Mgmt Security Boot →
 PCH Configuration Hiscellaneous Configuration Single Bit Error 	(Disable)	Displays and provides option to change the FCH Settings +*: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.	1274. Copyright (C) 2019 Amer.	ican Megatrends, Inc. B4

- PCH Configuration
- PCH Devices

External SSC Enable-CK420

Enable Spread Spectrum (only affects external clock generator). (Default: Enable)

☞ PCH state after G3

Allows you to select S0 or S5 for ACPI state after a G3.

> PCH SATA Configuration (I-SATA0~I-SATA7 Connectors)

☞ SATA Controller

Enables or disables the integrated SATA controllers.

∽ Configure SATA as

Enables or disables RAID for the SATA controllers integrated in the Chipset or configures the SATA controllers to AHCI mode.

➡ RAID Enables RAID for the SATA controller.

AHCI Configures the SATA controllers to AHCI mode. Advanced Host Controller Interface (AHCI) is an interface specification that allows the storage driver to enable advanced Serial ATA features such as Native Command Queuing and hot plug. (Default)

SATA Mode options

☞ SATA HDD Unlock

Enables or disables hard drive password unlock in the OS.

☞ SATA Led locate

If enabled, LED/SGPIO hardware is attached. (Default: Enable)

∽ Support Aggressive Link Power Management

Enables or disables the power saving feature, ALPM (Aggressive Link Power Management), for the Chipset SATA controllers.

∽ Load EFI Driver for RAID

Allows you to select whether to load EFI driver in RAID mode. If disabled, loads legacy OPROM.

∽ Port 0/1/2/3/4/5/6/7

Enables or disables each SATA port. (Default: Enable)

PCH sSATA Configuration (S-SATA0, S-SATA1 Connectors)

☞ sSATA Controller

Enables or disables the integrated SATA controllers.

Configure sSATA as

Enables or disables RAID for the SATA controllers integrated in the Chipset or configures the SATA controllers to AHCI mode.

➡ RAID Enables RAID for the SATA controller.

AHCI Configures the SATA controllers to AHCI mode. Advanced Host Controller Interface (AHCI) is an interface specification that allows the storage driver to enable advanced Serial ATA features such as Native Command Queuing and hot plug.

SATA Mode options

☞ SATA HDD Unlock

Enables or disables hard drive password unlock in the OS.

- SATA Led locate If enabled, LED/SGPIO hardware is attached.
- Support Aggressive Link Power Management Enables or disables the power saving feature, ALPM (Aggressive Link Power Management), for the Chipset SATA controllers.
- Load EFI Driver for RAID Allows you to select whether to load EFI driver in RAID mode. If disabled, loads legacy OPROM.
- SSATA Port 0/1
 Enables or disables each SATA port. (Default: Enable)
- Hot plug Enables or disable the hot plug capability for each SATA port. (Default: Disable)
- Configured as eSATA Enables or disables support for external SATA devices.

Miscellaneous Configuration

∽ Active Video

Allows you to select the active video type. Options are Auto, Onboard Device, PCIE Device.

∽ Single Bit Error

Enables or disables Single Bit Error selection.

2-5 Socket Configuration



Processor Configuration

The sub-menu displays and provides options to change the processor settings.

Hyper-Threading [ALL]

The Hyper Threading Technology allows a single processor to execute two or more separate threads concurrently. When hyper-threading is enabled, multi-threaded software applications can execute their.

∽ VMX

Enables or disables the Vanderpool Technology. This will take effect after rebooting the system.

- PPIN Control Select Unlock/Enable to use the Protected-Processor Inventory Number (PPIN) in the system.
- Hardware Prefetcher Select whether to enable the speculative prefetch unit of the processor.
- L2 RFO Prefetch Disable Enables or disables the L2 RFO Prefetch.
- Adjacent Cache Prefetch When enabled, cache lines are fetched in pairs. When disabled, only the required cache line is fetched.
- DCU Streamer Prefetcher Prefetches the next L1 data line based upon multiple loads in same cache line.
- DCU IP Prefetcher
 Prefetches the next L1 data line based upon sequential load history.
- LLC Prefetch Enables or disables LLC prefetch on all threads.
- Extended APIC
 Enables or disables APIC support.
- AES-NI Enables or disables AES-NI support.

RDT CAT Opportunistic Tuning

Cache Allocation Technology mask tuning options.

- UPI Status The sub-menu displays UPI status.
- Memory Configuration The sub-menu displays and provides options to change the memory settings.
- IIO Configuration The sub-menu displays and provides options to change the IIO settings.
- Advanced Power Management Configuration The sub-menu displays and provides options to change the power management settings.

2-6 Server Mgmt

Aptio Setup Util Main Advanced Platform Conf	<mark>ity – Copyright (C) 201</mark> iguration Socket Confi	9 American Megatrends, Inc. guration Server Mgmt Security Boot I
BMC Self Test Status BMC Device ID BMC Device Revision BMC Finware Revision IPMI Version BMC Interface(s) BMC Support Mait For EMC System Event Log > Bmc Self test log > View FRU information	PASSED 32 1 4.03 2.0 KCS, [Enabled] [Enabled]	Configure BMC network parameters
Ponc network bonniggeradum ▶ View System Event Log		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.12	74. Copyright (C) 2019	American Megatrends, Inc. 84

☞ BMC Support

Enables or disables interfaces to communicate with BMC.

☞ 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.

- System Event Log Press [Enter] to change the SEL event log configuration.
- Bmc self test log Logs the report returned by BMC self test command.
- View FRU information Press [Enter] to view FRU information.
- BMC network configuration Press [Enter] to configure BMC network parameters.
- View System Event Log Press [Enter] to view the system event log records.

2-7 Security



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.

Secure Boot

Allows you to enable or disable Secure Boot and configure related settings.

2-8 Boot

Boot Configuration [On] Select the keyboard NumLock Bootup NumLock State [On] Select the keyboard NumLock Quiet Boot [Enabled] State Optimized Boot [Disebled] Select the keyboard NumLock Boot Option Priorities [UEFI: Built-in EFI Boot Option #1 [UEFI: Built-in EFI **: Select Screen 11: Select Item	Aptio Setup Main Advanced Platform	Utility – Copyright (C) 2019 American Configuration Socket Configuration :	Megatrends, Inc. Server Mgmt Security <mark>Boot</mark>
Boot Option Priorities Boot Option #1 [UEFI: Built-in EFI Shell] **: Select Screen 11: Select Item	Boot Configuration Bootup NumLock State Quiet Boot Optimized Boot Boot Mode	(On) (Enabled) (Disabled) (Legacy Mode)	Select the keyboard NumLock state
Boot Option #1 [UEFI: Built-in EFI Shell] **: Select Screen 11: Select Item	Boot Ontion Priorities		
++: Select Screen 11: Select Item	Boot Option #1	[UEFI: Built-in EFI Shell]	
++: Select Screen 11: Select Item			
Enter: Select +/ Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit			++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1274. Convright (C) 2019 American Megatrends. Inc.	Version 2.1	20.1274. Convright (C) 2019 American M	egatrends. The B4

Bootup NumLock State

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

∽ Quiet Boot

Allows you to determine whether to display the GIGABYTE Logo at system startup.

Optimized Boot

Enables or disables Optimized Boot feature.

☞ Boot Mode

Selects the boot mode. Options are Legacy Mode/UEFI Mode.

∽ Boot Option Priorities

Specifies the overall boot order from the available devices. Removable storage devices that support GPT format will be prefixed with "UEFI:" string on the boot device list. To boot from an operating system that supports GPT partitioning, select the device prefixed with "UEFI:" string.

Or if you want to install an operating system that supports GPT partitioning such as Windows 10 64-bit, select the optical drive that contains the Windows 10 64-bit installation disk and is prefixed with "UEFI." string.

∽ Boot Option Priorities

Specifies the overall boot order from the available devices. Removable storage devices that support GPT format will be prefixed with "UEFI:" string on the boot device list. To boot from an operating system that supports GPT partitioning, select the device prefixed with "UEFI:" string.

Or if you want to install an operating system that supports GPT partitioning such as Windows 10 64-bit, select the optical drive that contains the Windows 10 64-bit installation disk and is prefixed with "UEFI:" string.

2-9 Save & Exit

Aptio Setup ◀ Save & Exit	Utility – Copyright	(C) 2019 American	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes Discard Changes Discard Changes Default Options			Exit system setup after saving the changes.
Restore Defaults Save as User Defaults Restore User Defaults Boot Override			II: Select Screen II: Select Item Enter: Select +/→: Dhange Opt, F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESD: Exit
			egatrends, Inc. 84

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

Dashboard

GA-C621-WD12	≡							3 A	© Sync	C Refresh	1 admin -
Himment Information 4.83.17664 Jan 15 2009 11:07:03 CST Heat Online	Dashboard Control Panel									4.5	ome > Dashboard
Quick Links *	0 d 1 w		265	The second se	2						
 Dashboard 	BMC Up Time	alıt	Pending Deassertions	-	Access						
🚯 Sension			More info O				re iefo 🗢				
FRU Information	Today (a)	Details	30 days (a)	Details	A Se	ensor Monitorir	g - 7 critical sensors				
System Information											
🕍 Logs & Reports 🔷					^						~
O Settings											~
🖵 Remote Control	No events for today		No events for last 30 days								
G Image Redirection					*						*
O Power Control											
🗲 Maintenance					^				for 19 yea	ical going lo irs ago	~
👁 Signout											~
					÷.						~
									for 19 yea	irs ago	
					⊖ Cu	irrently recovere	d .				

This page shows the summary monitoring information of the board.

Dashboard- Event Log



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. With your cursor, hover over the graph to view the number of events by date. You can also select between BMC or Client Time zone. 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.

Dashboard- Audit Log

GA-C621-WD12	=	8	A (Sync	C Refresh	1 ada	nin -
Enneare Information 4.03.171614 Jan 15 2009 11:07:021 CST © Heat Online	Audit Log #indition					Hone - J	uditlog
Quick Links							0
 Dashboard 	Fitter by Date Start Date O - End Date O						
Sensor							
FRU Information	Audit Log: 2 out of 2 event entries						
System Information	3anuary 2000						
Left Logs & Reports	ID: 2 January 16th 2000, 11:26:49 am ANIE0055EF50945 adviserd: [2145:2162 INFO]/kvm Login from IP:10.1.9.26 user:admin						
O Settings	ID: 1 January 10th 2000, 11:25:50 am ANIE0055EFS0945 spx_restservice: spx_restservice [2281: 2281 INFO]https Login from IP:10.1.9.26 user:admin-						
Remote Control	0						
Gi Image Redirection							
O Power Control							
Maintenance							
🕒 Sign out							
<		-	-	-			2

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

Sensor

GA-C621-WD12	=				5 A	© Sync 📿 Refresh 💄 admin +
Emmeane Information 4.83.179614 Jan 13 2009 11:27:23 CST © Heart Online	Sensor Reading Live reading of all a	875075				18 Home - Sensor Reading
Qiikk Unks. *	Critical Sensors (7)					
 Dashboard 						
🚳 Sensor		. 0.62	, O .			
FRU Information	Rem J	Volts	Rpm)	Rpm)	Rpm	Rpm J
					and the second sec	
	CPU_FAN2	P3V3_VBAT	SYS_FAN1	SYS_FAN2	SYS_FAN3	SYS_FAN4
	1 and 1					
	(Bpm)					
	*					
	SYS_FANS					
	UDiscrete Sensor States (13)					
	Sensor Name			State		
	DIMC Watchdog					
	↔ CATERR					
	↔ CPU Missing			State Asserted		
	++ CPU1 Proc Status			Processor Presence Detected		
	++ CPU2 Proc Status					

On this page, details for all the available sensors e.g. Name, Type, Status, Current Reading and Behavior are displayed The 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

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. If you select a sensor from the Normal Sensors sections, a Live Widget is also displayed showing its behavior over time.

FRU Information

GA-C621-WD12	=				2 A	Ó Sync 😋 Refresh 🏦 admin •
Himmetri Information 4.03.179614 Jan 35 2009 11/27/25 CST © Host Online	FRU Field Replacable Units					nd Home → FRJ
Quick Links	Available FRU Devices					
 Dashboard 	FRU Device ID	0 ~				
Sensor	FRU Device Name	BOARD_FRU				
FRU Information		-				
System Information	Chassis Information		Board Information		Product Information	
🕍 Logs & Reports 🔷	Chassis Information Area Format Version	ī	Board Information Area Format Version	1	Product Information Area Format Version	i
 Settings 	Chassis Type	Unspecified	Language	0	Language	0
🖵 Remote Control	Chassis Part Number	NA.	Manufacture Date Time	Thu Jan 10 16:14:00 2019	Product Manufacturer	GIGABYTE TECHNOLOGY CO.,LTD
G Image Redirection	Chassis Serial Number	NA.	Board Manufacturer	GIGABITE TECHNOLOGY CO.,LTD	Product Name	C621-WD12
A Design Constant	Chassis Extra		Board Product Name	O621-W012	Product Part Number	M18907
O FOMI CALLA			Board Serial Number	V18035	Product Version	WD12 002
Maintenance			Board Part Number	M18907	Product Serial Number	V18035
🝽 Sign out			FRU File ID		Asset Tag	
			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 that device.

FRU Device Name

The device name of the selected FRU will be displayed.

System Information

GA-C621-WD12	=	
Ennware information 4.83.178414 Jan 13 2009 11:27:23 CST • Host Online	System Informa	ation Some Devices Information
Quick Units.	BIOS	
	Marrian	9404.9
📾 Sensor	Vendor	AM
FRU Information	Release Version	DODS
	-	
	CPU	
O Settings	Index 1	
	Core 6	
	Frequency 1700	
	Brand Intel(R) Xe	on (R) Bronze 3104 CPU @ 1.70GHz
✔ Waintenance	DIMM	
	Fremency	1 2132
	524	22
	Manufacturer	Nicron
	Serial Number	E1338411
	Part Number	36A5F4672LZ-26381
	Channel	Α

The BIOS, CPU and DIMM Device information list.

Logs & Reports- IPMI Event Log



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. With your cursor, hover over the graph to view the number of events by date. You can also select between BMC or Client Time zone. 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.

Logs & Reports- System Log



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.

Logs & Reports- Audit Log

GA-C621-WD12	=	s 🔺 Ósync	😋 Refresh 💄 admin +
Emaster information 4.83.178614 Jan 35 2009 13 07 021 CST © Host Online	Audit Log as well top		# Home > Audilog
Quick Links. *			0
 Dashboard 	Filter by Cole Sturt Date O - End Date O		
Sensor			
FRU Information	Audit Log: 2 out of 2 overt entries		
System Information	January 2000		
Left Logs & Reports	ID: 2 January 16th 2000, 11:26:49 am AMIE0055EFSD945 adviserd - (2145:2162 IMFO)/kvm Login from IP:10.1.9.26 useradmin -		
O Settings	ID: 1 January 16th 2000, 11:25:0 am AMIE0055EF80945 spx, restservice: spx, restservice [2281:2281 INFO]https Login from IP:10.1.9.26 useradmin -		
🖵 Remote Control	0		
Image Redirection	Ť		
O Power Control			
🗲 Maintenance			
🕒 Sign out			
<		_	>

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

Logs & Reports- Video Log



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

GA-C621-WD12	=			🗃 🛕 Ó Sync 🖸 Refresh 🏦 admin •
Ennware information 4.03.170014 Jon 15 2029 11:27:23 CST 0 Heat Online	Settings Configure BMC options			W Howe - Settings
Qiikk Unks. •	Ó	0		0
Dashboard	Captured 8500	Date & Time	External User Services	KVM Mouse Setting
🏟 Sensor	B		#	12
FRU Information	Log Settings	Media Redirection Settions	Network Settings	PAM Order Settines
묘 System Information	- Col secolo	Automation and a		
LalL Logs & Reports	•	240		*
	Platform Event Filter	Services	SMTP Settings	SSL Settings
Settings Bemate Control		11		
-				
🖨 Image Redirection	system Frewari	UserManagement	video Recording	
O Power Control				
(# 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, User Management, and Video Recording.

Remote Control

GA-C621-WD12	=	10	о Sync	C Refresh	1 admin -
Himman information ABLITIG14 Ave 15 2019 11/27/21 CST Host Online	Remote Control Preser Control & Remote ROM & DO.			di Home -	Remote Control
Quick Links. *	KVM				
 Dashboard 					
 Sensor 					
FitU Information					
System Information					
Lat. Logs & Reports					
O Settings					
🖵 Remote Control					
En Image Redirection					
O Power Control					
F Maintenance					
🕞 Signout					

On this page, you can remote control your host system on BIOS Setup or Operating System.

Remote Control- Example 1

64-C621-WD12 🗮 🖉 🌢 Objec 🖸 Betreh	
	1 admin -
Remote Control Power Control &	Remete Control
Quick Links KVM / Revise XM(10.13.111); 100: e100 1-Monuelt Equ - 0 X	
Obtood A Catificate servicity/101.0319/seexchail	
● Strover	
0 1102 Marrar 8 Junior 1 Marrar 1 September 2 Septembe	
beter televisor b	
Boot configuration Boot configuration Boot to respond Nancox	
Guist Bot (Erobad) Optimize Bot (Dissbad)	
Bot Ottom Priorities	
BOULDELAN AN UPPER BOULDELAN AN	
New Control	
F Martanarca H+: solicit Schem	
Signal Constraints	
LWK 1988 LKT LCTK 14KT 455 56 56 56	

This page shows the BIOS Setup settings.

Remote Control- Example 2



This page shows the operating system settings.

Image Redirection

GA-C621-WD12 🗮 🖬 🛦 ös	ync 🖸 Refresh 💄 admin +
La same should be should b	# Home > Image Redirection
Exercised Exercised Exercised Exercised	
6 Servi	
• FRJ Hormation	
□ zystem Information	
Lat Logs 8 Reports	
• setring	
Contract Contract	
B Inge Melecton	
Forer Control	
▶ Kartearce	
e age at	

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

GA-C621-WD12	=	
Himmeter Information 4.83.178114 Jane 35 2009 1127-21 CST I Host Chiline	Power Control on Most Server	
Quick Links.	Power Actions	0
# Dashboard	Host is currently on	
n Sensor	Power Off	
FRU information	Power On	
System Information	Power Cycle	
M Logi & Reports	Hard Reset	
Settings	ACPI Shutdown	
🖵 Remote Control		Perform Action
A Image Redirection		
O Power Control		
📕 Maintenance		
🗢 Signout		

On this page, you can remote control the power of your host system.

Maintenance

GA-C621-WD12	=			🖀 🛕 O Sync 🖸 Refresh 🏦 admin •
Ennware.Information 4.03.179814 Jan 13 2009 11:27:21 CST © Heat Online	Maintenance			W Home = Maintenance
QuickUnits. •	Backup Configuration	EMC. Recovery	Pirmare Image Location	Firmware Information
Sensor FRU Information	Firmware Update	Preserve Configuration	E. Rostore Configuration	D Restore Factory Defaults
	System Administrator			
Settings Remote Control				

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

Regulatory Statements

Regulatory Notices

This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose.

Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE.

Our Commitment to Preserving the Environment

In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). 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.

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) 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. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure

that it is recycled in a manner that protects human health and the environment. 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.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us at the Customer Care number listed in your product's user's manual and we will be glad to help you with your effort.

Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly. With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

Battery Information

European Union—Disposal and recycling information GIGABYTE Recycling Program (available in some regions)



This symbol indicates that this product and/or battery should not be disposed of with household waste. You must use the public collection system to return, recycle, or treat them in compliance with the local regulations.



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GIGABYTE eSupport

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

