

msi PRO Z690-P DDR4 Motherboard User Guide

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PRO Z690-P DDR4 Motherboard User Guide



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PRO Z690-P DDR4 Motherboard

Thank you for purchasing the MSI® PRO Z690-P DDR4 motherboard. This User Guide gives information about board layout, component overview, BIOS setup and software installation.

Safety Information

- The components included in this package are prone to damage from electrostatic discharge (ESD). Please adhere to the following instructions to ensure successful computer assembly.
- Ensure that all components are securely connected. Loose connections may cause the computer to not recognize a component or fail to start.
- Hold the motherboard by the edges to avoid touching sensitive components.
- It is recommended to wear an electrostatic discharge (ESD) wrist strap when handling the motherboard to prevent electrostatic damage. If an ESD wrist strap is not available, discharge yourself of static electricity by touching another metal object before handling the motherboard.
- Store the motherboard in an electrostatic shielding container or on an anti-static pad whenever the motherboard is not installed.
- Before turning on the computer, ensure that there are no loose screws or metal components on the motherboard or anywhere within the computer case.
- Do not boot the computer before installation is completed. This could cause permanent damage to the components as well as injury to the user.
- If you need help during any installation step, please consult a certified computer technician.
- Always turn off the power supply and unplug the power cord from the power outlet before installing or removing any computer component.
- Keep this user guide for future reference.
- Keep this motherboard away from humidity.
- Make sure that your electrical outlet provides the same voltage as is indicated on the PSU, before connecting
 the PSU to the electrical outlet.
- Place the power cord such a way that people can not step on it. Do not place anything over the power cord.
- All cautions and warnings on the motherboard should be noted.
- If any of the following situations arises, get the motherboard checked by service personnel:
 - Liquid has penetrated into the computer.

- The motherboard has been exposed to moisture.
- The motherboard does not work well or you can not get it work according to user guide.
- The motherboard has been dropped and damaged.
- The motherboard has obvious sign of breakage.
- Do not leave this motherboard in an environment above 60°C (140°F), it may damage the motherboard.

Specifications

CPU	Supports 12th Gen Intel® Core™ Processors Processor socket LGA1700 * Please go to <u>www.msi.com</u> to get the newest support status as new processors ar e released.						
Chipset	Intel® Z690 chipset						
Memory	 4x DDR4 memory slots, support up to 128GB* Supports 2133/ 2666/ 3200 MHz (by JEDEC & POR) Max overclocking frequency: 1DPC 1R Max speed up to 5000+ MHz 1DPC 2R Max speed up to 4600+ MHz 2DPC 1R Max speed up to 4400+ MHz 2DPC 2R Max speed up to 4000+ MHz Supports Dual-Channel mode Supports non-ECC, un-buffered memory Supports Intel® Extreme Memory Profile (XMP) *Please refer www.msi.com for more information on compatible memory 						
Expansion Slots	 2x PCle x16 slots PCl_E1 (From CPU) Support PCle 5.0 x16 PCl_E3 (From Z690 chipset) Support PCle 3.0 x4 3x PCle 3.0 x1 slots (Fom Z690 chipset) 1x M.2 slot with E key for Intel® Wireless-AX CNVi and PCle WiFi module 						

Onboard Graphics	1x HDMI 1.4 with HDR port, supports a maximum resolution of 4K 30Hz */** 1x DisplayPort 1.4 port, supports a maximum resolution of 4K 60Hz */** * Available only on processors featuring integrated graphics. ** Graphics specifications may vary depending on the CPU installed.
Multi-GPU	• Supports AMD CrossFire™ Technology

Audio	Realtek® ALC897 Codec • 7.1-Channel High Definition Audio Supports S/PDIF output
Storage	 4x SATA 6Gb/s ports (From Z690 chipset) 2x M.2 slots (Key M) M2_1 slot (From CPU) Supports PCle 4.0 x4 Supports 2260/ 2280/ 22110 storage devices M2_2 slot (From Z690 chipset) Supports PCle 4.0 x4 Supports PCle 4.0 x4 Supports SATA 6Gb/s Supports 2242/ 2260/ 2280 storage devices Supports Intel® Optane™ Memory Support Intel® Smart Response Technology for Intel Core™ processors
RAID	Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
LAN	• 1x Realtek® RTL8125BG 2.5Gbps LAN controller

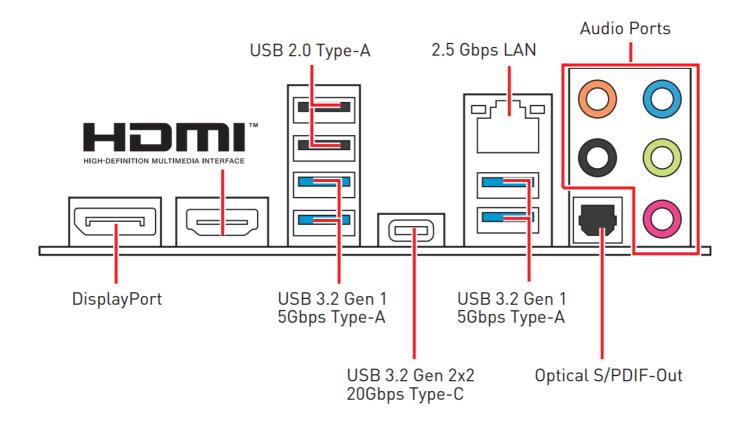
USB	 Intel® Z690 Chipset 8x USB 3.2 Gen 1 5Gbps ports (4 Type-A port on the back panel and 4 ports availa ble through the internal USB connectors) 6x USB 2.0 ports (2 Type-A port on the back panel and 4 ports available through the internal USB connectors) 1x USB 3.2 Gen 2×2 20Gbps Type-C port on the back panel
Back Panel Connector s	 1x DisplayPort 1x HDMI port 2x USB 2.0 ports 4x USB 3.2 Gen 1 5Gbps Type-A ports 1x USB 3.2 Gen 2×2 20Gbps Type-C port 1x 2.5Gbps LAN (RJ45) port 5x audio jacks 1x Optical S/PDIF Out connector

Internal Connectors	 1x 24-pin ATX main power connector 1x 8-pin ATX 12V power connector 1x 4-pin ATX 12V power connector 4x SATA 6Gb/s connectors 2x M.2 slots (M-Key) 2x USB 3.2 Gen 1 5Gbps connectors (supports additional 4 USB 3.2 Gen 1 5Gbps ports) 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports) 1x 4-pin CPU fan connector 1x 4-pin water-pump fan connector 4x 4-pin system fan connectors 1x Front panel audio connector 2x System panel connectors 1x Chassis Intrusion connector 1x Chassis Intrusion connector 1x Clear CMOS jumper 1x TBT connector (Supports RTD3)
LED Features	 1x 4-pin RGB LED connector 1x 3-pin RAINBOW LED connector 4x EZ Debug LED
I/O Controller	NUVOTON NCT6687 Controller Chip
Hardware Monitor	 CPU/ System/ Chipset temperature detection CPU/ System/ Pump fan speed detection CPU/ System/ Pump fan speed control
Form Factor	ATX Form Factor 12 in. x 9.6 in. (30.5 cm x 24.4 cm)
BIOS Features	 1x 256 Mb flash UEFI AMI BIOS ACPI 6.4, SMBIOS 3.4 Multi-language

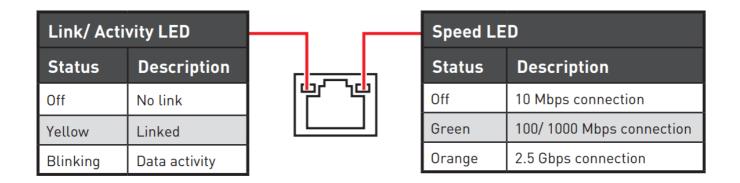
Software	 Drivers MSI Center Intel® Extreme Tuning Utility MSI APP Player (BlueStacks) Open Broadcaster Software (OBS) CPU-Z MSI GAMING Google Chrome™, Google Toolbar, Google Drive Norton™ Internet Security Solution
MSI Center Features	 LAN Manager Mystic Light Frozr Al Cooling User Scenario True Color Live Update Monitor Super Charger Speed Up

- Audio - Audio Boost - Network - 2.5G LAN - LAN Manager - Cooling - Pump Fan - Smart Fan Control - LED - Mystic Light - Mystic Light SYNC - EZ Debug LED - Performance - Lightning Gen 5 PCI-E Slot - Lightning Gen 4 M.2 - DDR4 Boost - Core Boost - Game Boost - Lightning USB 20Gbps - USB with Type A+C - Protection - PCI-E Steel Armor - Experience - MSI Center

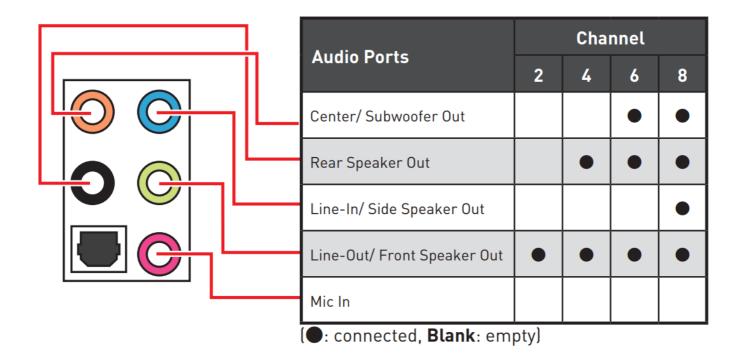
Rear I/O Panel



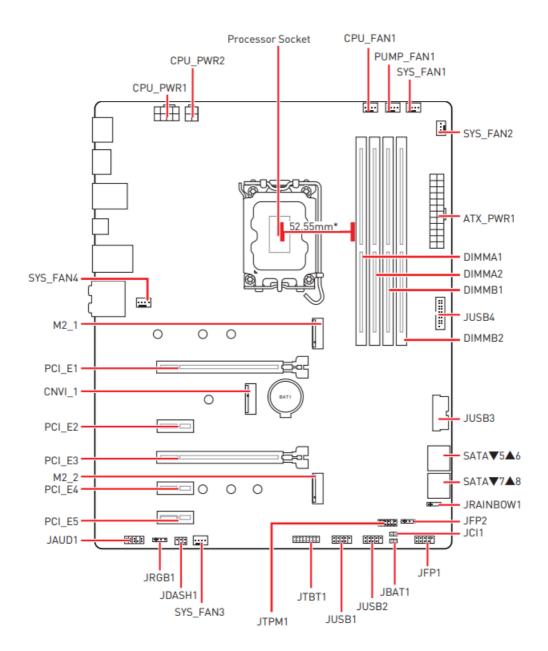
LAN Port LED Status Table



Audio Ports Configuration



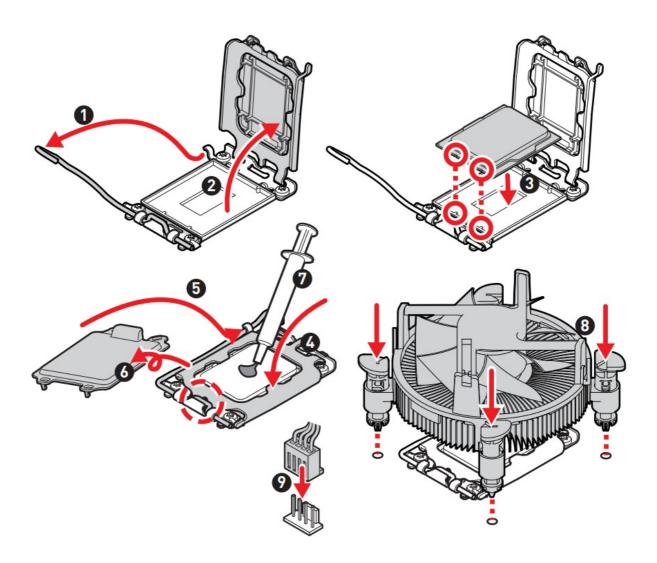
Overview of Components



* Distance from the center of the CPU to the nearest DIMM slot.

CPU Socket

Please install the CPU into the CPU socket as shown below.

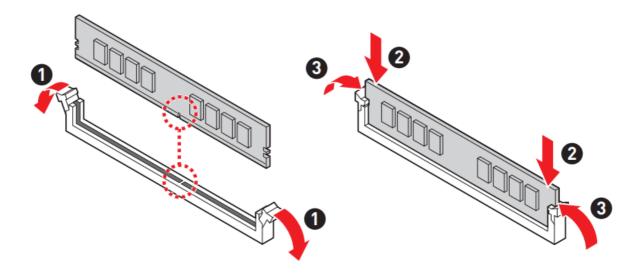


△ Important

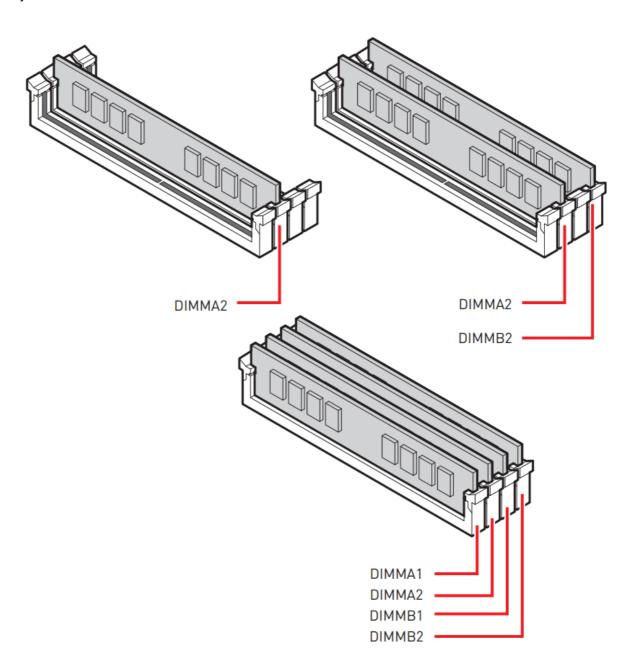
- Always unplug the power cord from the power outlet before installing or removingthe CPU.
- Please retain the CPU protective cap after installing the processor. MSI will deal with Return Merchandise Authorization (RMA) requests if only the motherboard comes with the protective cap on the CPU socket.
- When installing a CPU, always remember to install a CPU heatsink. A CPU heatsink is necessary to prevent overheating and maintain system stability.
- Confirm that the CPU heatsink has formed a tight seal with the CPU before booting your system.
- Overheating can seriously damage the CPU and motherboard. Always make sure the cooling fans work properly to protect the CPU from overheating. Be sure to apply an even layer of thermal paste (or thermal tape) between the CPU and the heatsink to enhance heat dissipation.
- Whenever the CPU is not installed, always protect the CPU socket pins by covering the socket with the plastic cap.
- If you purchased a separate CPU and heatsink/ cooler, Please refer to the documentation in the heatsink/ cooler package for more details about installation.

DIMM Slots

Please install the memory module into the DIMM slot as shown below.



Memory module installation recommendation

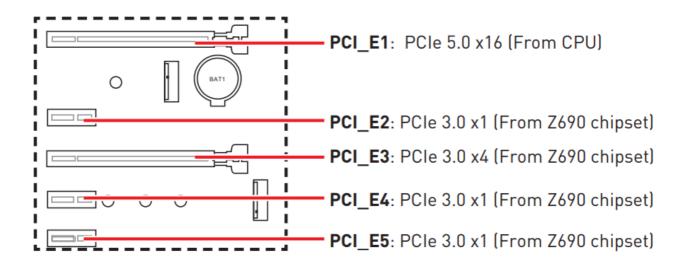


\triangle Important

• Always insert memory modules in the DIMMA2 slot first.

- To ensure system stability for Dual channel mode, memory modules must be of the same type, number and density.
- Some memory modules may operate at a lower frequency than the marked value when overclocking due to the
 memory frequency operates dependent on its Serial
 Presence Detect (SPD). Go to BIOS and find the DRAM Frequency to set the memory frequency if you want to
 operate the memory at the marked or at a higher frequency.
- It is recommended to use a more efficient memory cooling system for full DIMMs installation or overclocking.
- The stability and compatibility of installed memory module depend on installed CPU and devices when overclocking.
- Please refer www.msi.com for more information on compatible memory.

PCI_E1~5: PCIe Expansion Slots

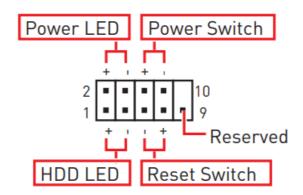


△ Important

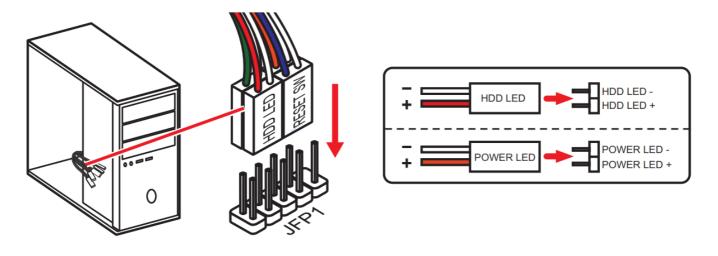
- When adding or removing expansion cards, always turn off the power supply and unplug the power supply
 power cable from the power outlet. Read the expansion card's documentation to check for any necessary
 additional hardware or software changes.
- If you install a large and heavy graphics card, you need to use a tool such as MSI Gaming Series Graphics Card Bolster to support its weight to prevent deformation of the slot.
- For a single PCIe x16 expansion card installation with optimum performance, using the PCI_E1 slot is recommended.

JFP1, JFP2: Front Panel Connectors

These connectors connect to the switches and LEDs on the front panel.



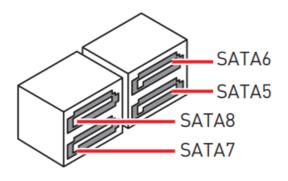
1	HDD LED +	2	Power LED +
3	HDD LED –	4	Power LED –
5	Reset Switch	6	Power Switch
7	Reset Switch	8	Power Switch
9	Reserved	10	No Pin



Buzzer _	1	Speaker –	2	Buzzer +
JFP2 1 Speaker	3	Buzzer –	4	Speaker +

SATA5~8: SATA 6Gb/s Connectors

These connectors are SATA 6Gb/s interface ports. Each connector can connect to one SATA device.



- Please do not fold the SATA cable at a 90-degree angle. Data loss may result during transmission otherwise.
- SATA cables have identical plugs on either sides of the cable. However, it is recommended that the flat connector be connected to the motherboard for space saving purposes.

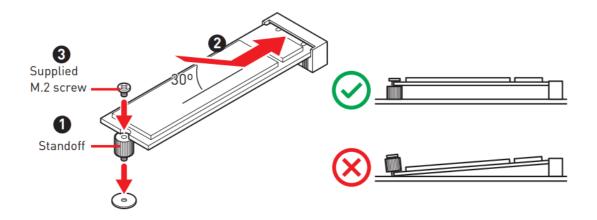
JAUD1: Front Audio Connector

This connector allow you to connect audio jacks on the front panel.

	1	MIC L 2		Ground		
2 10	3	MIC R	4	NC		
	5	Head Phone R	6	MIC Detection		
1 9	7	SENSE_SEND	_			
	9	Head Phone L				

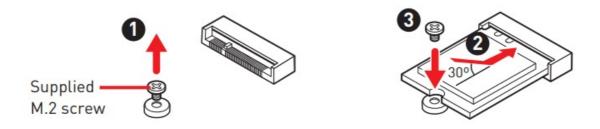
M2 1~2: M.2 Slot (Key M)

Please install the M.2 solid-state drive (SSD) into the M.2 slot as shown below.



M2_WIFI1: M.2 Slot (Key E)

Please install the Wi-Fi module into M.2_2 slot as shown below.



ATX_PWR1, CPU_PWR1~2: Power Connectors

These connectors allow you to connect an ATX power supply.

		1	+3.3V	13	+3.3V
12 [7] 2/		2	+3.3V	14	-12V
12 24		3	Ground	15	Ground
		4	+5V	16	PS-ON#
	ATX_PWR1	5	Ground	17	Ground
		6	+5V	18	Ground
1 1 13		7	Ground	19	Ground
1 🔲 13		8	PWR OK	20	Res
		9	5VSB	21	+5V
		10	+12V	22	+5V
		11	+12V	23	+5V
		12	+3.3V	24	Ground
8 5		1	Ground	5	+12V
	CPU_PWR1	2	Ground	6	+12V
		3	Ground	7	+12V
4 1		4	Ground	8	+12V
		1	Ground	3	+12V
4 DD 3 2 DD 1	CPU_PWR2	2	Ground	4	+12V

⚠ Important

Make sure that all the power cables are securely connected to a proper ATX power supply to ensure stable operation of the motherboard.

JUSB1~2: USB 2.0 Connectors

These connectors allow you to connect USB 2.0 ports on the front panel.

	1	VCC	2	VCC
2 10	3	USB0-	4	USB1-
	5	USB0+	6	USB1+
1 9	7	Ground	8	Ground
	9	No Pin	10	NC

△ Important

- Note that the VCC and Ground pins must be connected correctly to avoid possible damage.
- In order to recharge your iPad, iPhone and iPod through USB ports, please install MSI Center utility.

JUSB3~4: USB 3.2 Gen 1 5Gbps Connector

This connector allows you to connect USB 3.2 Gen 1 5Gbps ports on the front panel.

	1	Power	11	USB2.0+
	2	USB3_RX_DN	12	USB2.0-
	3	USB3_RX_DP	13	Ground
10 11	4	Ground	14	USB3_TX_C_DP
	5	USB3_TX_C_DN	15	USB3_TX_C_DN
	6	USB3_TX_C_DP	16	Ground
1 20	7	Ground	17	USB3_RX_DP
	8	USB2.0-	18	USB3_RX_DN
	9	USB2.0+	19	Power
	10	Ground	20	No Pin

△ Important

Note that the Power and Ground pins must be connected correctly to avoid possible damage.

JTBT1: Thunderbolt Add-on Card Connector

This connector allows you to connect the add-on Thunderbolt I/O card.

	1	TBT_Force_PWR	2	TBT_S0IX_Entry_REQ
	3	TBT_CIO_Plug_Event#	4	TBT_S0IX_Entry_ACK
	5	SLP_S3#_TBT	6	TBT_PSON_Override_N
1 15	7	SLP_S5#_TBT	8	Net Name
	9	Ground	10	SMBCLK_VSB
	11	DG_PEWake	12	SMBDATA_VSB
	13	TBT_RTD3_PWR_EN	14	Ground
	15	TBT_Card_DET_R#	16	PD_IRQ#

JDASH1: Tuning controller Connector

This connector is used to connect an optional Tuning Controller module.

2 6	1	No pin	2	NC
	3	MCU_SMB_SCL_M	4	MCU_SMB_SDA_M
1 5	5	VCC5	6	Ground

CPU_FAN1, PUMP_FAN1, SYS_FAN1~4: Fan Connectors

Fan connectors are PWM (Pulse Width Modulation) Mode. PWM Mode fan connectors provide constant 12V output and adjust fan speed with speed control signal.

Connector	Fan mode	Max. current	Max. power
CPU_FAN1	PWM mode	2A	24W
PUMP_FAN1	PWM mode	3A	36W
SYS_FAN1~4	PWM mode	1A	12W

1 PW	/M Mode pin definition		
1	Ground	2	+12V
3	Sense	4	Speed Control Signal

△ Important

You can adjust fan speed in BIOS > HARDWARE MONITOR.

JTPM1: TPM Module Connector

This connector is for TPM (Trusted Platform Module). Please refer to the TPM security platform manual for more details and usages.

	1	SPI Power	2	SPI Chip Select
	3	Master In Slave Out (SPI Data)	4	Master Out Slave In (SPI Data)
2 12	5	Reserved	6	SPI Clock
1 11	7	Ground	8	SPI Reset
	9	Reserved	10	No Pin
	11	Reserved	12	Interrupt Request

JCI1: Chassis Intrusion Connector

This connector allows you to connect the chassis intrusion switch cable.



Using chassis intrusion detector

- 1. Connect the JCI1 connector to the chassis intrusion switch/ sensor on the chassis.
- 2. Close the chassis cover.
- 3. Go to BIOS > SETTINGS > Security > Chassis Intrusion Configuration.
- 4. Set Chassis Intrusion to Enabled.
- 5. Press F10 to save and exit and then press the Enter key to select Yes.
- 6. Once the chassis cover is opened again, a warning message will be displayed on screen when the computer is turned on.

Resetting the chassis intrusion warning

- 1. Go to BIOS > SETTINGS > Security > Chassis Intrusion Configuration.
- 2. Set Chassis Intrusion to Reset.
- 3. Press F10 to save and exit and then press the Enter key to select Yes.

JBAT1: Clear CMOS (Reset BIOS) Jumper

There is CMOS memory onboard that is external powered from a battery located on the motherboard to save system configuration data. If you want to clear the system configuration, set the jumpers to clear the CMOS memory.



Resetting BIOS to default values

- 1. Power off the computer and unplug the power cord.
- 2. Use a jumper cap to short JBAT1 for about 5-10 seconds.
- 3. Remove the jumper cap from JBAT1.
- 4. Plug the power cord and power on the computer.

JRAINBOW1: Addressable RGB LED connector

The JRAINBOW connector allows you to connect the WS2812B Individually Addressable RGB LED strips 5V.

_1	1	+5V	2	Data
• • •	3	No Pin	4	Ground

△ CAUTION

Do not connect the wrong type of LED strips. The JRGB connector and the JRAINBOW connector provide different voltages, and connecting the 5V LED strip to the JRGB connector will result in damage to the LED strip.

△ Important

- The JRAINBOW connector supports up to 75 LEDs WS2812B Individually Addressable RGB LED strips (5V/Data/Ground) with the maximum power rating of 3A (5V). In the case of 20% brightness, the connector supports up to 200 LEDs.
- Always turn off the power supply and unplug the power cord from the power outlet before installing or removing the RGB LED strip.
- Please use MSI's software to control the extended LED strip.

JRGB1: RGB LED connector

The JRGB connector allows you to connect the 5050 RGB LED strips 12V.

_1	1	+12V	2	G
	3	R	4	В

△ Important

- The JRGB connector supports up to 2 meters continuous 5050 RGB LED strips (12V/G/R/B) with the maximum power rating of 3A (12V).
- Always turn off the power supply and unplug the power cord from the power outlet before installing or removing the RGB LED strip.
- Please use MSI's software to control the extended LED strip.

EZ Debug LED

These LEDs indicate the status of the motherboard.

CPU – indicates CPU is not detected or fail.

DRAM – indicates DRAM is not detected or fail.

VGA – indicates GPU is not detected or fail.

BOOT – indicates booting device is not detected or fail.

Installing OS, Drivers & MSI Center

Please download and update the latest utilities and drivers at www.msi.com

Installing Windows 10/ Windows 11

- 1. Power on the computer.
- 2. Insert the Windows 10/ Windows 11 installation disc/USB into your computer.
- 3. Press the Restart button on the computer case.
- 4. Press F11 key during the computer POST (Power-On Self Test) to get into Boot Menu.
- 5. Select the Windows 10/ Windows 11 installation disc/USB from the Boot Menu.
- 6. Press any key if screen shows Press any key to boot from CD or DVD... message. If not, please skip this step.
- 7. Follow the instructions on the screen to install Windows 10/ Windows 11.

Installing Drivers

- 1. Start up your computer in Windows 10/ Windows 11.
- 2. Insert MSI® Drive disc/ USB Driver into the optical drive/ USB port.
- 3. Click the Select to choose what happens with this disc pop-up notification, then select Run DVDSetup.exe to open the installer. If you turn off the AutoPlay feature from the Windows Control Panel, you can still manually execute the DVDSetup.exe from the root path of the MSI Drive disc.
- 4. The installer will find and list all necessary drivers in the Drivers/Software tab.
- 5. Click the Install button in the lower-right corner of the window.
- 6. The drivers installation will then be in progress, after it has finished it will prompt you to restart.
- 7. Click OK button to finish.
- 8. Restart your computer.

MSI Center

MSI Center is an application that helps you easily optimize game settings and smoothly use content creation softwares. It also allows you to control and synchronize LED light effects on PCs and other MSI products. With MSI Center, you can customize ideal modes, monitor system performance, and adjust fan speed.

MSI Center User Guide

If you would like to know more information about MSI Center, please refer to http://download.msi.com/manual/mb/MSICENTER.pdf or scan the QR code to access.



http://download.msi.com/manual/mb/MSICENTER.pdf

△ Important

Functions may vary depending on the product you have.

UEFI BIOS

MSI UEFI BIOS is compatible with UEFI (Unified Extensible Firmware Interface) architecture. UEFI has many new functions and advantages that traditional BIOS cannot achieve, and it will completely replace BIOS in the future. The MSI UEFI BIOS uses UEFI as the default boot mode to take full advantage of the new chipset's capabilities.

The term BIOS in this user guide refers to UEFI BIOS unless otherwise noted.

UEFI advantages

Fast booting – UEFI can directly boot the operating system and save the BIOS selftest process. And also

eliminates the time to switch to CSM mode during POST.

• Supports for hard drive partitions larger than 2 TB.

Supports more than 4 primary partitions with a GUID Partition Table (GPT).

• Supports unlimited number of partitions.

Supports full capabilities of new devices – new devices may not provide backward compatibility.

• Supports secure startup – UEFI can check the validity of the operating system to ensure that no malware

tampers with the startup process.

Incompatible UEFI cases

32-bit Windows operating system – this motherboard supports only 64-bit Windows 10/ Windows 11 operating

system.

• Older graphics card - the system will detect your graphics card. When display a warning message There is no

GOP (Graphics Output protocol) support detected in

this graphics card.

△ Important

We recommend that you to replace with a GOP/UEFI compatible graphics card or using integrated graphics from

CPU for having normal function. How to check the BIOS mode?

1. Power on your computer.

2. Press Delete key, when the Press DEL key to enter Setup Menu, F11 to enter Boot Menu message appears on

the screen during the boot process.

3. After entering the BIOS, you can check the BIOS Mode at the top of the screen.

BIOS Mode: UEFI

BIOS Setup

The default settings offer the optimal performance for system stability in normal conditions. You should always

keep the default settings to avoid possible system damage or failure booting unless you are familiar with BIOS.

△ Important

BIOS items are continuously update for better system performance. Therefore, the description may be slightly

different from the latest BIOS and should be for reference only. You could also refer to the HELP information

panel for BIOS item description.

The BIOS screens, options and settings will vary depending on your system.

Entering BIOS Setup

Press Delete key, when the Press DEL key to enter Setup Menu, F11 to enter Boot Menu message appears on

the screen during the boot process.

Function key

F1: General Help

F2: Add/ Remove a favorite item

F3: Enter Favorites menu

F4: Enter CPU Specifications menu

F5: Enter Memory-Z menu

F6: Load optimized defaults

F7: Switch between Advanced mode and EZ mode

F8: Load Overclocking Profile

F9: Save Overclocking Profile

F10: Save Change and Reset*

F12: Take a screenshot and save it to USB flash drive (FAT/ FAT32 format only).

Ctrl+F: Enter Search page

* When you press F10, a confirmation window appears and it provides the modification information. Select between Yes or No to confirm your choice.

BIOS User Guide

If you'd like to know more instructions on setting up the BIOS, please refer to http://download.msi.com/manual/mb/Intel600BIOS.pdf or scan the QR code to access.



http://download.msi.com/manual/mb/Intel600BIOS.pdf

Resetting BIOS

You might need to restore the default BIOS setting to solve certain problems. There are several ways to reset BIOS:

- Go to BIOS and press F6 to load optimized defaults.
- Short the Clear CMOS jumper on the motherboard.

△ Important

Be sure the computer is off before clearing CMOS data. Please refer to the Clear CMOS jumper section for resetting BIOS.

Updating BIOS

Updating BIOS with M-FLASH

Before updating:

Please download the latest BIOS file that matches your motherboard model from MSI website. And then save the BIOS file into the USB flash drive.

Updating BIOS:

- 1. Insert the USB flash drive that contains the update file into the USB port.
- 2. Please refer the following methods to enter flash mode.
 - Reboot and press Ctrl + F5 key during POST and click on Yes to reboot the system.
 - Reboot and press Del key during POST to enter BIOS. Click the M-FLASH button and click on Yes to reboot the system.
- 3. Select a BIOS file to perform the BIOS update process.
- 4. When prompted click on Yes to start recovering BIOS.
- 5. After the flashing process is 100% completed, the system will reboot automatically.

Updating the BIOS with MSI Center Before updating:

- Make sure the LAN driver is already installed and the internet connection is set properly.
- Please close all other application software before updating the BIOS.

To update BIOS:

- 1. Install and launch MSI Center and go to Support page.
- 2. Select Live Update and click on Advance button.
- 3. Select the BIOS file and click on Install button.
- 4. The installation reminder will appear, then click the Install button on it.
- 5. The system will automatically restart to update BIOS.
- 6. After the flashing process is 100% completed, the system will restart automatically.

Regulatory Notices

FCC Compliance Statement

Note: 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 the 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 into 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Tested to comply with FCC standards FOR HOME OR OFFICE USE

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



CE Conformity

Products bearing the CE marking comply with one or more of the following EU Directives as may be applicable: RED 2014/53/EU; Low Voltage Directive 2014/35/EU; EMC Directive 2014/30/EU; RoHS Directive 2011/65/EU. Compliance with these directives is assessed using applicable European Harmonized Standards. The point of contact for regulatory matters is MSI, MSI-NL Eindhoven 5706 5692 ER Son.

C-Tick Compliance



Battery Information

European Union:

Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.



Taiwan:

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

California, USA:

The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California. For further information please visit:

http://www.dtsc.ca.gov/hazardouswaste/perchlorate/

CAUTION: There is a risk of explosion, if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

WEEE (Waste Electrical and Electronic Equipment) Statement



To protect the global environment and as an environmentalist, MSI must remind you that... Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal wastes anymore, and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life. MSI will comply with the product take back requirements at the end of life of MSI-branded products that are sold into the EU. You can return these products to local collection points.

India RoHS

This product complies with the "India E-waste (Management and Handling) Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Environmental Policy



- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.
- Visit the MSI website and locate a nearby distributor for further recycling information.
- Users may also reach us at <u>gpcontdev@msi.com</u> for information regarding proper Disposal, Take-back, Recycling, and Disassembly of MSI products.

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Revision History

Version 2.0, 2021/10, First release.

Version 2.1, 2022/01, updated release.

Technical Support

If a problem arises with your system and no solution can be obtained from the user guide, please contact your place of purchase or local distributor. Alternatively, please try the following help resources for further guidance.

- Visit the MSI website for technical guide, BIOS updates, driver updates, and other information: http://www.msi.com
- Register your product at: http://register.msi.com

Documents / Resources



msi PRO Z690-P DDR4 Motherboard [pdf] User Guide

PRO Z690-P DDR4 Motherboard, PRO Z690-P DDR, PRO Z690-P, PRO Z690-P Motherboard, DDR4 Motherboard, Motherboard

References

- **10 MSI Redirect**
- <u>dtsc.ca.gov/hazardouswaste/</u>
- **10 MSI Redirect**
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- 🖁 <u>csr</u>

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