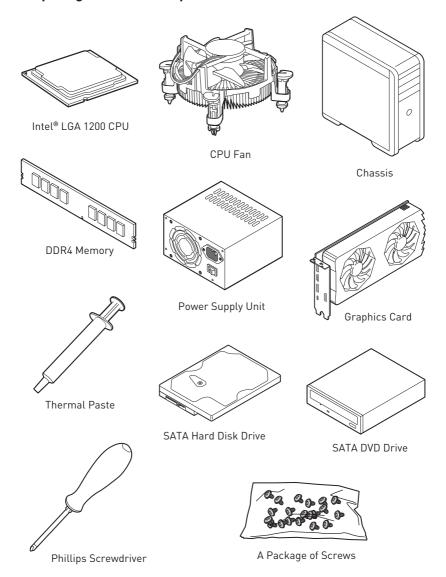
Quick Start

Thank you for purchasing the MSI® **B560M PRO-VDH/ B560M PRO-VDH WIFI** motherboard. This Quick Start section provides demonstration diagrams about how to install your computer. Some of the installations also provide video demonstrations. Please link to the URL to watch it with the web browser on your phone or tablet. You may have even link to the URL by scanning the QR code.

Preparing Tools and Components



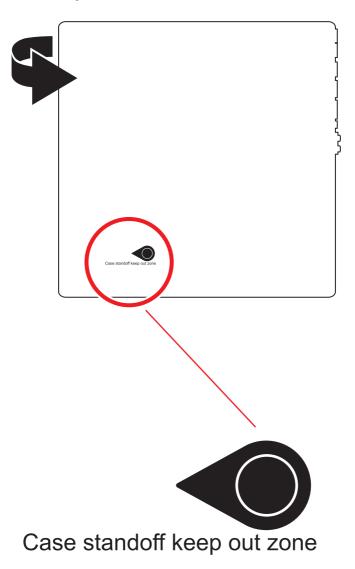
Safety Information

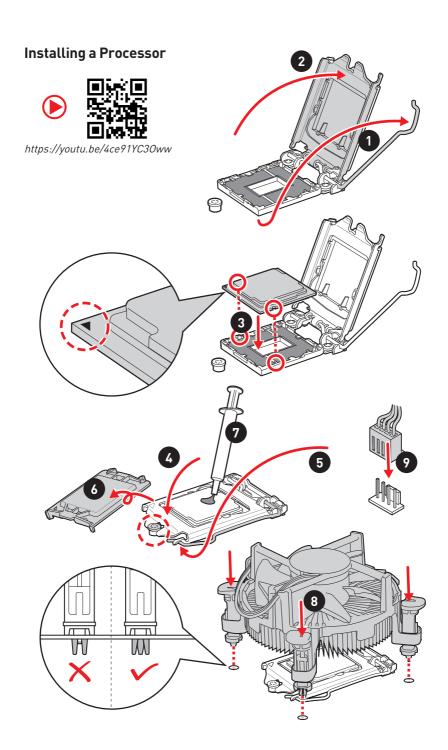
- The components included in this package are prone to damage from electrostatic discharge (ESD). Please adhere to the following instructions to ensure successful computer assembly.
- Ensure that all components are securely connected. Loose connections may cause the computer to not recognize a component 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 quide.
 - 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.

Case stand-off notification

Before installing the motherboard into the case, install first the necessary mounting stand-off required for a motherboard on the mounting plate in the case.

To prevent damage to the motherboard, any unnecessary mounting stand-off between the motherboard circuits and the computer case is prohibited. The Case standoff keep out zone signs will be marked on the backside of motherboard (as shown below) to serve as a warning to user.



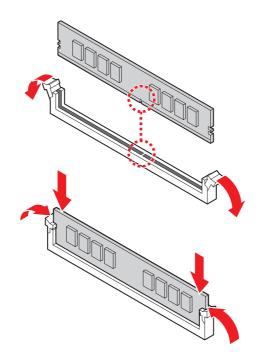


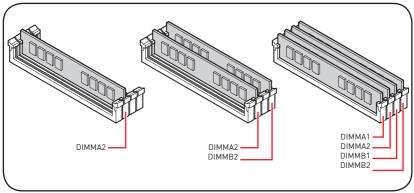
Installing DDR4 memory



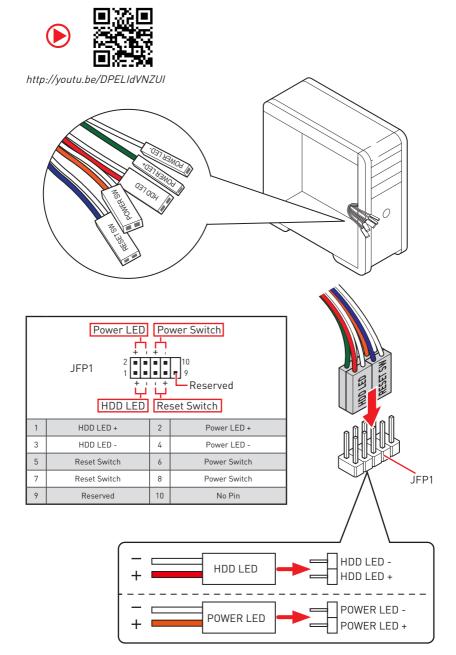


http://youtu.be/T03aDrJPyQs

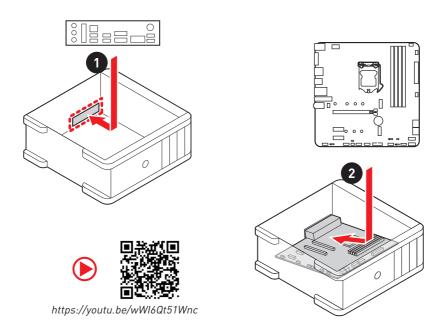


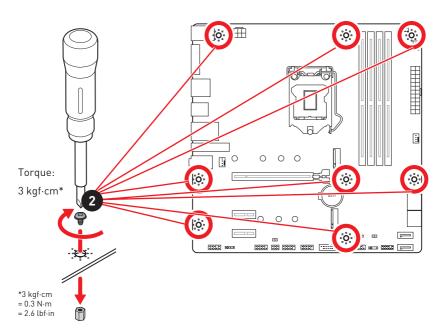


Connecting the Front Panel Header



Installing the Motherboard



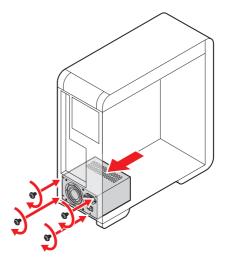


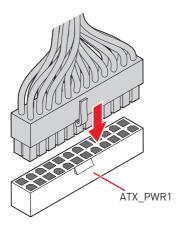
Connecting the Power Connectors

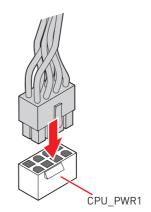


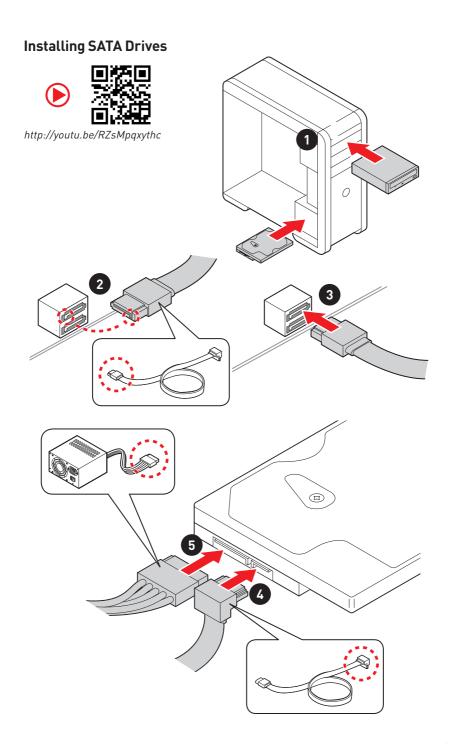


http://youtu.be/gkDYyR_83I4

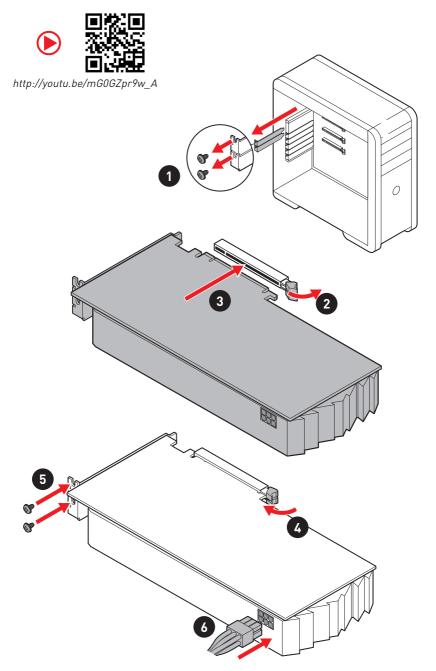




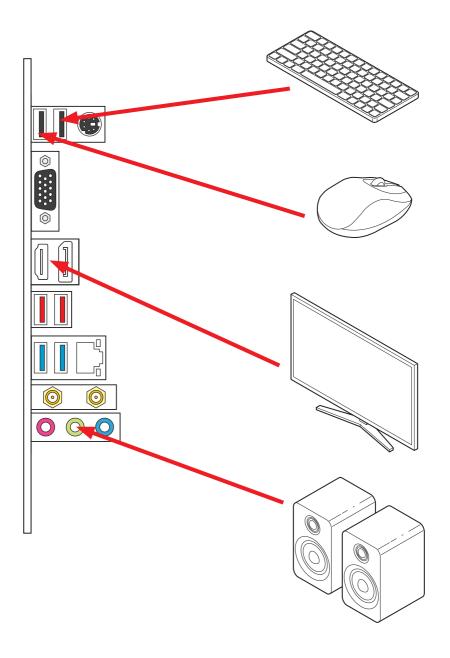




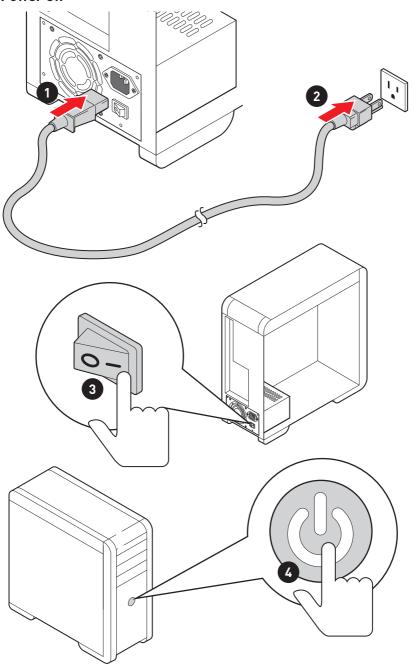
Installing a Graphics Card



Connecting Peripheral Devices



Power On



Contents

Quick Start	1
Preparing Tools and Components	1
Safety Information	2
Case stand-off notification	3
Installing a Processor	4
Installing DDR4 memory	5
Connecting the Front Panel Header	6
Installing the Motherboard	7
Connecting the Power Connectors	
Installing SATA Drives	9
Installing a Graphics Card	
Connecting Peripheral Devices	
Power On	
Specifications	15
Package contents	20
Block Diagram	21
Rear I/O Panel	22
LAN Port LED Status Table	
Realtek Audio Console	
Installing Antennas (For B560M PRO-VDH WIFI only)	24
Overview of Components	25
CPU Socket	
DIMM Slots	28
PCI_E1~3: PCIe Expansion Slots	29
SATA1~6: SATA 6Gb/s Connectors	29
M2_1~2: M.2 Slots (Key M)	30
JFP1, JFP2: Front Panel Connectors	32
JAUD1: Front Audio Connector	32
CPU_PWR1, ATX_PWR1: Power Connectors	33
JCOM1: Serial Port Connector	33
JUSB3: USB 3.2 Gen 1 Connector	34
JUSB1~2: USB 2.0 Connectors	34
CPU_FAN1, PUMP_FAN1, SYS_FAN1~2: Fan Connectors	35
JCI1: Chassis Intrusion Connector	
JTPM1: TPM Module Connector	36
JBAT1: Clear CMOS (Reset BIOS) Jumper	
JDASH1 : Tuning Controller connector	37

	EZ Debug LED	37
	JRGB1: RGB LED connector	38
	JRAINBOW1: Addressable RGB LED connector	39
Inst	talling OS, Drivers & MSI Center	40
	Installing Windows® 10	40
	Installing Drivers	40
	MSI Center	40
UEF	FI BIOS	41
	BIOS Setup	42
	Entering BIOS Setup	42
	BIOS User Guide	42
	Resetting BIOS	43
	Updating BIOS	43
Inte	el® Optane™ Memory Configuration	45
Tro	ubleshooting	46

Specifications

• Supports 10th Gen Intel® Core™ Processors, 11th Ge Intel® Core™ Processors, Pentium® Gold and Celeron® Processors* • Processor socket LGA1200 * Please go to intel.com for compatibility information			
Chipset Intel® B560 Chipset			
Cilipset	<u> </u>		
	4x DDR4 memory slots, support up to 128GB*		
	• Supports 1R 2133/ 2666/ 2933 MHz for 10th Gen Intel® CPU (by JEDEC & POR)*		
	• Supports 1R 2133/ 2666/ 2933/ 3200 MHz for 11th Gen Intel® CPU (by JEDEC & POR)*		
	Max overclocking frequency:		
	1DPC 1R Max speed up to 5066 MHz		
Memory	1DPC 2R Max speed up to 4600+ MHz		
	2DPC 1R Max speed up to 4266+ MHz		
	2DPC 2R Max speed up to 4000+ MHz		
	Supports Dual-Channel mode		
	Supports non-ECC mode, un-buffered memory		
	Supports Intel® Extreme Memory Profile (XMP)		
	* Please refer www.msi.com for more information on compatible memory.		
	• 1x PCIe x16 slot		
	PCI_E1 (From CPU)		
Expansion Slot	 Supports up to PCle 4.0 for 11th Gen Intel[®] CPU 		
Expansion Stot	 Supports up to PCIe 3.0 for 10th Gen Intel[®] CPU 		
	• 2x PCIe 3.0 x1 slots		
	PCI_E2 & PCI_E3 (From B560 chipset)		
	• 1x HDMI 2.0b with HDR port, supports a maximum resolution of 4K 60Hz*/**		
	• 1x DisplayPort 1.4 port, supports a maximum resolution of 4K 60Hz*/**		
Onboard Graphics	• 1x VGA port, supports the maximum resolutions of 2048x1536 @50Hz, 2048x1280 @60Hz and 1920x1200 @60Hz*/**		
	* Available only on processors featuring integrated graphics. ** Graphics specifications may vary depending on the CPU installed.		

	• 6x SATA 6Gb/s ports (From B560 chipset)			
	• 2x M.2 slots (Key M)			
	■ M2_1 slot			
	 Supports up to PCIe 4.0 x4 for 11th Gen Intel[®] CPU (From CPU) 			
	 Supports up to PCIe 3.0 x4 & SATA 6Gb/s for 10th Gen Intel® CPU (From B560 chipset)* 			
	 Supports 2242/ 2260/ 2280/ 22110 storage devices 			
Storage	M2_2 slot** (from B560 chipset)			
	 Supports up to PCIe 3.0 x4 			
	 Supports 2242/ 2260/ 2280 storage devices 			
	□ Intel® Optane™ Memory Ready*			
	• Supports Intel® Smart Response Technology for Intel Core™ processors			
	* SATA2 will be unavailable when installing M.2 SATA SSD in the M2_1 slot. ** Before using Intel® Optane™ memory modules, please ensure that you have updated the drivers and BIOS to the latest version from MSI website.			
	Intel® B560 Chipset			
	 2x USB 3.2 Gen 2 10Gbps Type-A ports on the back panel 			
USB	 4x USB 3.2 Gen 1 5Gbps ports (2 Type-A ports on the back panel, and 2 ports are available through the internal USB 3.2 Gen 1 5Gbps connector) 			
	2x USB 2.0 Type-A ports on the back panel			
	USB Hubs GL850G			
	 4x USB 2.0 ports are available through the internal USB 2.0 connectors 			
	Realtek® AL897 Codec			
Audio	■ 7.1-Channel High Definition Audio			
LAN	• 1x Realtek® RTL8125B 2.5Gbps LAN controller			

	• Intel® Wi-Fi 6 AX201				
Wireless LAN & Bluetooth® (For B560M PRO-	• The Wireless module is pre-installed in the M.2 (Key-E) slot				
	• Supports MU-MIMO TX/RX, 2.4GHz/ 5GHz (160MHz) up to 2.4Gbps				
VDH WIFI)	• Supports 802.11 a/ b/ g/ n/ ac/ ax				
	WiFi 6 pre certified				
	• Supports Bluetooth® 5.1, FIPS, FISMA				
	• 1x 24-pin ATX main power connector				
	• 1x 8-pin ATX 12V power connector				
	• 6x SATA 6Gb/s connectors				
	• 2x M.2 slots (M-Key)				
	• 1x USB 3.2 Gen 1 5Gbps connector (supports additional 2 USB 3.2 Gen 1 ports)				
	• 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)				
	• 1x 4-pin CPU fan connector				
Internal Connectors	• 1x 4-pin water-pump fan connector				
	• 2x 4-pin system fan connectors				
	• 1x Front panel audio connector				
	• 2x System panel connectors				
	• 1x Chassis Intrusion connector				
	• 1x Clear CMOS jumper				
	• 1x TPM module connector				
	• 1x Serial port connector				
	• 1x Tuning Controller Connector				
	• 1x 4-pin RGB LED connector				
LED Features	• 1x 3-pin RAINBOW LED connector				
	• 4x EZ Debug LED				

	• 1x PS/2 keyboard/ mouse combo port
	• 2x USB 2.0 Type-A ports
	• 1x VGA port
	• 1x DisplayPort
Back Panel	• 1x HDMI port
Connectors	• 2x USB 3.2 Gen 2 10Gbps Type-A ports
	• 1x 2.5G LAN (RJ45) port
	• 2x USB 3.2 Gen 1 5Gbps Type-A ports
	• 2x Wi-Fi Antenna connectors
	• 3x audio jacks
I/O Controller	NUVOTON NCT6687 Controller Chip
	CPU/ System/ Chipset temperature detection
Hardware Monitor	CPU/ System/ Pump fan speed detection
	CPU/ System/ Pump fan speed control
	Micro-ATX Form Factor
Form Factor	• 9.6 in. x 9.6 in. (24.4 cm x 24.4 cm)
	• 1x 256 Mb flash
	• UEFI AMI BIOS
BIOS Features	• ACPI 6.2, SMBIOS 3.0
	Multi-language
	• Drivers
	MSI Center
6.6	Intel® Extreme Tuning Utility
Software	• CPU-Z MSI GAMING
	• Google Chrome™, Google Toolbar, Google Drive
	Norton™ Internet Security Solution

	• LAN Manager				
	Mystic Light				
	Frozr Al Cooling				
	User Scenario				
MSI Center Features	• True Color				
	Live Update				
	Monitor				
	Super Charger				
	Speed Up				
	• Audio				
	Audio Boost				
	• Cooling				
	 M.2 Shield Frozr 				
	■ Pump Fan				
	■ Smart Fan Control				
	• LED				
	Mystic Light Extension (RAINBOW/RGB)				
	■ EZ DEBUG LED				
Special Features	Performance				
	■ DDR4 Boost				
	■ Core Boost				
	■ USB 3.2 Gen 2 10G				
	 Lightning Gen 4 PCI-E Slot 				
	■ Lightning Gen 4 M.2				
	Protection				
	■ PCI-E Steel Armor				
	Experience				
	■ Click BIOS 5				

Package contents

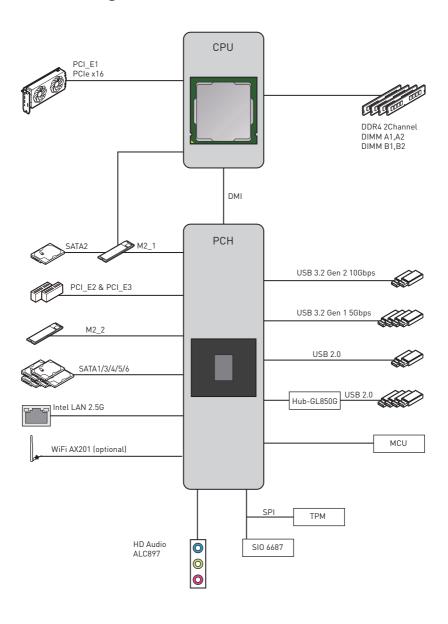
Please check the contents of your motherboard package. It should contain:

Motherboard	B560M PRO-VDH WIFI / B560M PRO-VDH	
Documentation Quick installation guide		1
Application	Driver DVD 1	
Cable SATA 6G cables (2 cables/pack)		1
	Wi-Fi Antenna (For B560M PRO-VDH WIFI only)	1
	M.2 screw + standoff (2 sets/pack)	1
Accessories	IO shielding	1
	Dragon Badge	1
	Product registration card	1

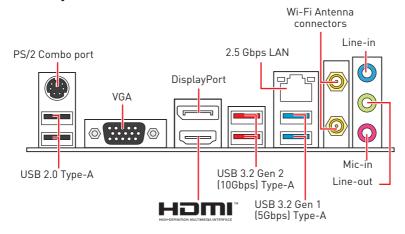


If any of the above items are damaged or missing, please contact your retailer.

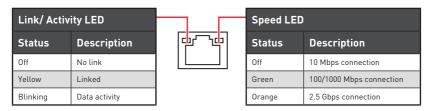
Block Diagram



Rear I/O Panel

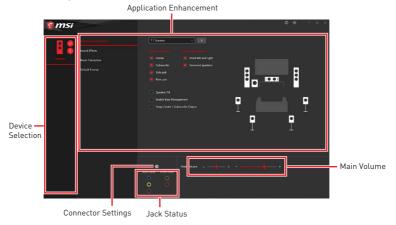


LAN Port LED Status Table



Realtek Audio Console

After Realtek Audio Console is installed. You can use it to change sound settings to get better sound experience.



- Device Selection allows you to select a audio output source to change the related options. The **check** sign indicates the devices as default.
- Application Enhancement the array of options will provide you a complete guidance of anticipated sound effect for both output and input device.
- Main Volume controls the volume or balance the right/left side of the speakers that you plugged in front or rear panel by adjust the bar.
- Jack Status depicts all render and capture devices currently connected with your computer.
- Connector Settings configures the connection settings.

Audio 7.1-channel Configuration

To configure 7.1-channel audio, you have to connect front audio I/O module to JAUD1 connector and follow the below steps.

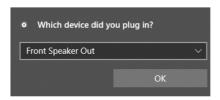
1. Click on the Realtek Audio Console > Advanced Settings to open the dialog below.



- 2. Select Mute the rear output device, when a front headphone plugged in.
- 3. Plug your speakers to audio jacks on rear and front I/O panel. When you plug into a device at an audio jack, a dialogue window will pop up asking you which device is current connected.

Auto popup dialog

When you plug into a device at an audio jack, a dialogue window will pop up asking you which device is current connected.

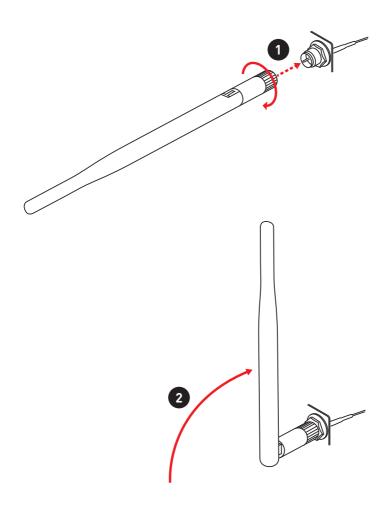




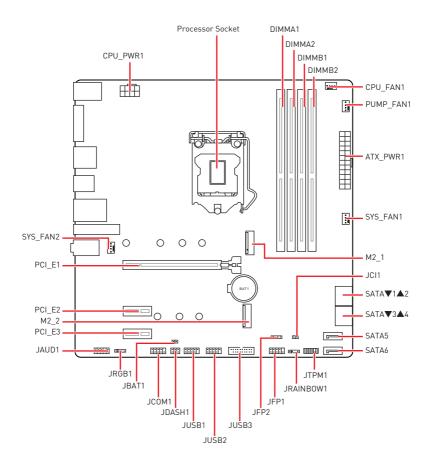
The pictures above for reference only and may vary from the product you purchased.

Installing Antennas (For B560M PRO-VDH WIFI only)

- 1. Screw the antennas tight to the antenna connectors as shown below.
- 2. Orient the antennas.



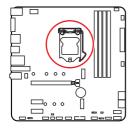
Overview of Components

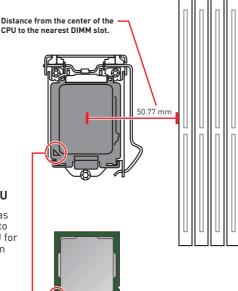


Component Contents

Port Name	Port Type	Page
CPU_FAN1, PUMP_FAN1, SYS_FAN1~2	Fan Connectors	35
CPU_PWR1, ATX_PWR1	Power Connectors	33
CPU Socket	LGA1200	27
DIMMA1, DIMMA2, DIMMB1, DIMMB2	DIMM Slots	28
JAUD1	Front Audio Connector	32
JBAT1	Clear CMOS Jumper	37
JCI1	Chassis Intrusion Connector	36
JCOM1	Serial Port Connector	33
JDASH1	Tuning Controller connector	37
JFP1, JFP2	Front Panel Connectors	32
JRAINBOW1	Addressable RGB LED connector	39
JRGB1	RGB LED connector	38
JTPM1	TPM Module Connector	36
JUSB1~2	USB 2.0 Connectors	34
JUSB3	USB 3.2 Gen 1 Connector	34
M2_1~2	M.2 Slots (Key M)	30
PCI_E1~3	PCIe Expansion Slots	29
SATA1~6	SATA 6Gb/s Connectors	29

CPU Socket





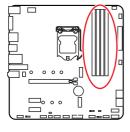
Introduction to the LGA 1200 CPU

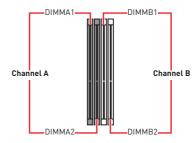
The surface of the LGA 1200 CPU has two notches and a golden triangle to assist in correctly lining up the CPU for motherboard placement. The golden triangle is the Pin 1 indicator.



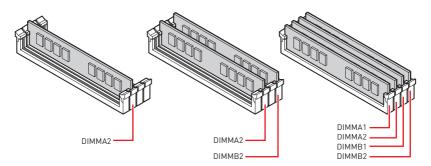
- Always unplug the power cord from the power outlet before installing or removing the CPU.
- Please retain the CPU protective cap after installing the processor. MSI will deal with Return Merchandise Authorization (RMA) requests if only the motherboard comes with the protective cap on the CPU socket.
- 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.
- This motherboard is designed to support overclocking. Before attempting to overclock, please make sure that all other system components can tolerate overclocking. Any attempt to operate beyond product specifications is not recommended. MSI® does not guarantee the damages or risks caused by inadequate operation beyond product specifications.

DIMM Slots





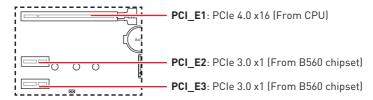
Memory module installation recommendation





- 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 E1~3: PCIe Expansion Slots



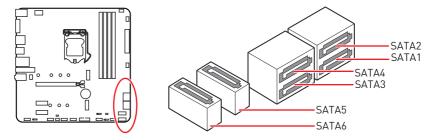


Important

- 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.
- 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.

SATA1~6: SATA 6Gb/s Connectors

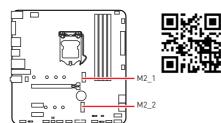
These connectors are SATA 6Gb/s interface ports. Each connector can connect to one SATA device.





- 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.
- SATA2 will be unavailable when installing M.2 SATA SSD in the M2 1 slot.

M2_1~2: M.2 Slots (Key M)





Watch the video to learn how to Install M.2 SSD.

https://youtu.be/2UeWMgjwogU

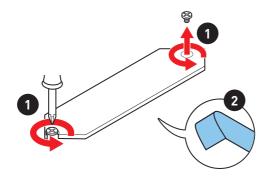


Important

- Intel® RST only supports PCIe M.2 SSD with UEFI ROM.
- Intel[®] Optane[™] Memory Ready for M2 2 slot.

Installing M.2 module

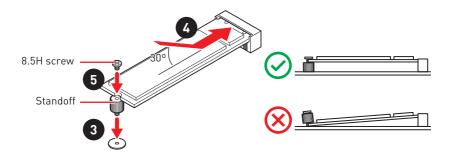
- 1. Loosen the screws of M.2 SHIELD FROZR heatsink.
- 2. Remove the M.2 SHIELD FROZR and remove the protective films from the thermal pads of heatsink.



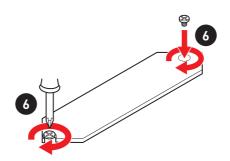
- 3. Secure the supplied M.2 standoff according to your M.2 SSD length if need.
- 4. Insert your M.2 SSD into the M.2 slot at a 30-degree angle.
- **5.** Secure the M.2 SSD in place with the supplied M.2 8.5H screw.



Skips step 3 and step 5, if you install 2280 M.2 into M2_1 slot.



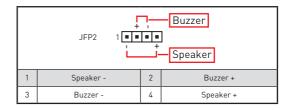
6. Put the M.2 SHIELD FROZR heatsink back in place and secure it.

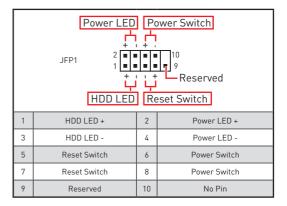


JFP1, JFP2: Front Panel Connectors

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







JAUD1: Front Audio Connector

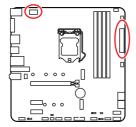
This connector allows you to connect audio jacks on the front panel.



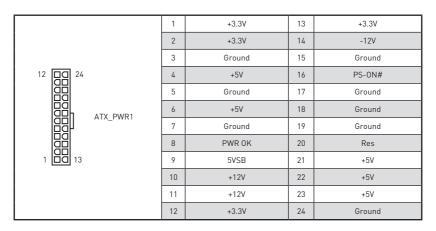
2 10			
1	MIC L	2	Ground
3	MIC R	4	NC
5	Head Phone R	6	MIC Detection
7	SENSE_SEND	8	No Pin
9	Head Phone L	10	Head Phone Detection

CPU_PWR1, ATX_PWR1: Power Connectors

These connectors allow you to connect an ATX power supply.



8					
1	1 Ground 5 +12V				
2	2 Ground 6 +12V				
3	3 Ground 7 +12V				
4	Ground	8	+12V		



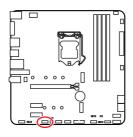


Important

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

JCOM1: Serial Port Connector

This connector allows you to connect the optional serial port with bracket.



2 10 1 9					
1	DCD	2	SIN		
3	SOUT	4	DTR		
5	5 Ground 6 DSR				
7	RTS	8	CTS		
9	RI	10	No Pin		

JUSB3: USB 3.2 Gen 1 Connector

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



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

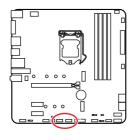


Important

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

JUSB1~2: USB 2.0 Connectors

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



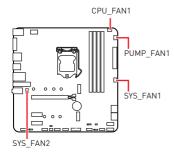
2 10				
1	VCC	2	VCC	
3	USB0-	4	USB1-	
5	USB0+	6	USB1+	
7	Ground	8	Ground	
9	No Pin	10	NC	



- 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.

CPU FAN1, PUMP FAN1, SYS FAN1~2: Fan Connectors

Fan connectors can be classified as PWM (Pulse Width Modulation) Mode or DC Mode. PWM Mode fan connectors provide constant 12V output and adjust fan speed with speed control signal. DC Mode fan connectors control fan speed by changing voltage. However, you can follow the instruction below to adjust the fan connector to PWM or DC Mode manually.

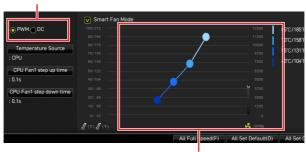


Default fan mode	Max. current	Max. power
_FAN1 PWM mode		24W
PWM mode	3A	36W
DC mode	1A	12W
	PWM mode PWM mode	Fan mode current PWM mode 2A PWM mode 3A

Switching fan mode and adjusting fan speed

You can switch between PWM mode and DC mode and adjust fan speed in BIOS > HARDWARE MONITOR.

Select PWM mode or DC mode



There are gradient points of the fan speed that allow you to adjust fan speed in relation to CPU temperature.



Make sure fans are working properly after switching the PWM/ DC mode.

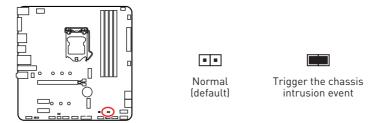
Pin definition of fan connectors

1			PWM Mode pin definition		
1	Ground	2	+12V		
3	Sense	4	Speed Control Signal		

DC Mode pin definition				
1	Ground	2	Voltage Control	
3	Sense	4	NC	

JCI1: Chassis Intrusion Connector

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



Using chassis intrusion detector

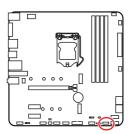
- 1. Connect the JCI1 connector to the chassis intrusion switch/ sensor on the chassis.
- 2. Close the chassis cover.
- 3. Go to BIOS > SETTINGS > Security > Chassis Intrusion Configuration.
- 4. Set Chassis Intrusion to Enabled.
- **5.** Press **F10** to save and exit and then press the **Enter** key 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.

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.



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

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.

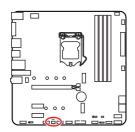


Resetting BIOS to default values

- 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.

JDASH1: Tuning Controller connector

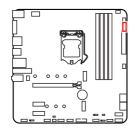
This connector is used to connect an optional Tuning Controller module.



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

EZ Debug LED

These LEDs indicate the debug status of the motherboard.

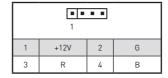


- CPU indicates CPU is not detected or fail.
- DRAM indicates DRAM is not detected or fail.
- **□ VGA** indicates GPU is not detected or fail.
- **BOOT** indicates the booting device is not detected or fail.

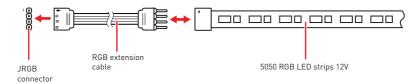
JRGB1: RGB LED connector

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

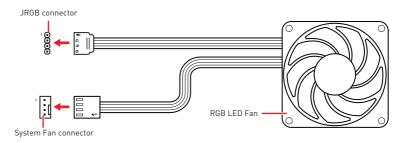




RGB LED Strip Connection



RGB LED Fan Connection



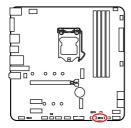


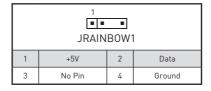
Important

- 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.

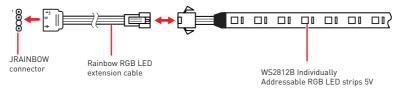
JRAINBOW1: Addressable RGB LED connector

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

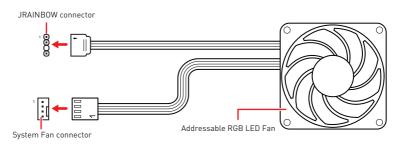




Addressable RGB LED Strip Connection



Addressable RGB LED Fan Connection





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.

Installing OS, Drivers & MSI Center

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

Installing Windows® 10

- 1. Power on the computer.
- 2. Insert the Windows® 10 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 installation disc/USB from the Boot Menu
- 6. Press any key when screen shows Press any key to boot from CD or DVD... message.
- 7. Follow the instructions on the screen to install Windows[®] 10

Installing Drivers

- 1. Start up your computer in Windows® 10.
- 2. Insert MSI® Drive disc into the optical drive.
- 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

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

or scan the QR code to access.



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.



Important

The term BIOS in this user quide 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 Windows 10 64-bit 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.



- 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 list

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

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/Intel500BIOS.pdf

or scan the QR code to access.

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

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.

Press <Ctrl+F5> to activate M-Flash for BIOS update.

• 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:

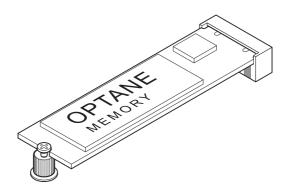
- Make sure the LAN driver is already installed and the internet connection is set properly.
- Please close all other application software before updating the BIOS.

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.

Intel® Optane™ Memory Configuration

Intel® Optane™ memory is a technology which allows the system to access the data more quickly. It enables the computer to store commonly used data and programs, and keeps them even after powering off the computer. Before you start to install Intel® OptaneTM memory, please note that it requires Windows 10 64-bit operating system.



Intel® Optane™ Memory User Guide



If you'd like to know more instructions on how to enable or remove Intel® Optane™ Memory, please refer to

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

or scan the QR code to access.



After you enable Intel® Optane™ memory, please note the following to prevent damage to your operating system.

- DO NOT set the SATA mode back to AHCI in BIOS.
- DO NOT revert back to older version of the BIOS.
- DO NOT remove the Intel® Optane™ memory module.
- DO NOT replace the CPU that is not supported by Intel® Optane™ Memory.

Troubleshooting

Before sending the motherboard for RMA repair, try to go over troubleshooting guide first to see if your got similar symptoms as mentioned below.

The power is not on.

- Connect the AC power cord to an electrical outlet securely.
- Check if all ATX power connectors like ATX PWR1. CPU PWR1 are connected from the power supply to the motherboard?
- Some power supply units have a power button on the rear side, make sure the button is turned on
- Check if the power switch cable is connected to JFP1 pin header properly.
- Verify the Clear CMOS jumper JBAT1 is set to Keep DATA.
- Test with another known working power supply of equal or greater wattage.

The power is on, but no signal to monitor

- Connect the monitor power cord to a electrical outlet securely.
- Make sure the monitor is turned on.
- Select different inputs on the monitor.
- If 3 long beeps are heard, remove all memory modules and try to install only one memory module in the **DIMMA2** slot first and then restart the computer.
- If 1 long 2 short beeps are heard, remove and reinstall the graphics card and then restart the computer.
- Test with another known working graphics card.

The computer does not boot after updating the BIOS

- · Clear the CMOS.
- Use the secondary BIOS to bootup the system (Only for motherboard with Dual BIOS)

Lost BIOS password

· Clear the CMOS, but that will cause you to lose all customized settings in the BIOS.

There is no audio

- · Adjust the volume.
- · Connect the speakers/headphones to audio ports on the motherboard rear IO panel.
- Remove secondary speakers/ headphones, HDMI cables, USB audio devices
- Test with another known working speaker or headphone.

There is no network

- Make sure the network chipset driver has been installed.
- Verify if the network cable is properly connected and make sure the LAN port LEDs are properly illuminated.
- Verify your TCP/IP settings.
- · Restart or reset your router.
- Test with another known working LAN cable.

The USB device is not working

- Make sure your USB drive driver has been installed.
- · Verify if USB device is listed in Windows® Device Manager.
- Connect the USB device to other USB port on the motherboard rear IO panel.

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.

KC인증서

B560M PR0-VDH WIFI



상호: [주]엠에스아이코리아 제품명: 메인보드 모델명: 10-7D18 제조년월: 2021년 제조자 및 제조국가: MSI/중국

R-R-MSI-10-7D18 B560M PRO-VDH



상호: [주]엠에스아이코리아 제품명: 메인보드 모델명: B560MPV 제조년월: 2021년 R-R-MSI-B560MPV 제조자 및 제조국가: MSI/중국

クラスB情報技術装置



この装置は、クラスB情報技術装置です。こ の装置は、家庭環境で使用することを目的と していますが、この装置がラジオやテレビジョ ン受信機に近接して使用されると、受信障害を引き起こ すことがあります。取扱説明書に従って正しい取り扱いを して下さい。

VCCI_R

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-



廢電池請回收

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

California IISA:



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.

Chemical Substances Information

In compliance with chemical substances regulations. such as the EU REACH Regulation (Regulation EC No. 1907/2006 of the European Parliament and the Council), MSI provides the information of chemical substances in products at:

https://storage-asset.msi.com/html/popup/csr/ evmtprtt_pcm.html

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 gpcontdev@msi.com for information regarding proper Disposal, Take-back, Recycling, and Disassembly of MSI products.

WEEE (Waste Electrical and Electronic Equipment) Statement

To protect the global environment and as an environmentalist, MSI must remind

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.

Hinweis von MSI zur Erhaltung und Schutz unserer

Gemäß der Richtlinie 2002/96/EG über Elektro- und Elektronik-Altgeräte dürfen Elektro- und Elektronik-Altgeräte nicht mehr als kommunale Abfälle entsorgt werden. MSI hat europaweit verschiedene Sammelund Recyclingunternehmen beauftragt, die in die Europäische Union in Verkehr gebrachten Produkte, am Ende seines Lebenszyklus zurückzunehmen. Bitte entsorgen Sie dieses Produkt zum gegebenen Zeitpunkt ausschliesslich an einer lokalen Altgerätesammelstelle in Ihrer Nähe.

FRANCAIS

En tant qu'écologiste et afin de protéger l'environnement. MSI tient à rappeler ceci...

Au sujet de la directive européenne (EU) relative aux déchets des équipement électriques et électroniques, directive 2002/96/EC, prenant effet le 13 août 2005, que les produits électriques et électroniques ne peuvent être déposés dans les décharges ou tout simplement mis à la poubelle. Les fabricants de ces équipements seront obligés de récupérer certains produits en fin de vie. MSI prendra en compte cette exigence relative au retour des produits en fin de vie au sein de la communauté européenne. Par conséquent vous pouvez retourner localement ces matériels dans les points de collecte.

Компания MSI предпринимает активные действия по защите окружающей среды, поэтому напоминаем вам что

В соответствии с директивой Европейского Союза (ЕС) по предотвращению загрязнения окружающей среды использованным электрическим и электронным оборудованием (директива WEEE 2002/96/EC), вступающей в силу 13 августа 2005 года, изделия, относящиеся к электрическому и электронному оборудованию, не могут рассматриваться как бытовой мусор, поэтому производители вышеперечисленного электронного оборудования обязаны принимать его для переработки по окончании срока службы. MSI обязуется соблюдать требования по приему продукции, проданной под маркой MSI на территории ЕС, в переработку по окончании срока службы. Вы можете вернуть эти изделия в специализированные пункты приема.

ESPAÑOL

MSI como empresa comprometida con la protección del medio ambiente, recomienda:

Bajo la directiva 2002/96/EC de la Unión Europea en materia de desechos y/o equipos electrónicos, con fecha de rigor desde el 13 de agosto de 2005, los productos clasificados como "eléctricos y equipos electrónicos" no pueden ser depositados en los contenedores habituales de su municipio, los fabricantes de equipos electrónicos, están obligados a hacerse cargo de dichos productos al termino de su período de vida. MSI estará comprometido con los términos de recogida de sus productos vendidos en la Unión Europea al final de su periodo de vida. Usted debe depositar estos productos en el punto limpio establecido por el ayuntamiento de su localidad o entregar a una empresa autorizada para la recogida de estos residuos.

NEDERI ANDS

Om het milieu te beschermen, wil MSI u eraan herinneren dat

De richtlijn van de Europese Unie (EU) met betrekking tot Vervuiling van Electrische en Electronische producten (2002/96/EC), die op 13 Augustus 2005 in zal gaan kunnen niet meer beschouwd worden als vervuiling. Fabrikanten van dit soort producten worden verplicht om producten retour te nemen aan het eind van hun levenscyclus. MSI zal overeenkomstig de richtlijn handelen voor de producten die de merknaam MSI dragen en verkocht zijn in de EU. Deze goederen kunnen geretourneerd worden op lokale inzamelingspunten.

Da bi zaštitili prirodnu sredinu, i kao preduzeće koje vodi računa o okolini i prirodnoj sredini, MSI mora da vas podesti da...

Po Direktivi Evropske unije ("EU") o odbačenoj ekektronskoj i električnoj opremi, Direktiva 2002/96/ EC, koja stupa na snagu od 13. Avgusta 2005, proizvodi koji spadaju pod "elektronsku i električnu opremu" ne mogu više biti odbačeni kao običan otpad i proizvođači ove opreme biće prinuđeni da uzmu natrag ove proizvode na kraju njihovog uobičajenog veka trajanja. MSI će poštovati zahtev o preuzimanju ovakvih proizvoda kojima je istekao vek trajanja, koji imaju MSI oznaku i koji su prodati u EU. Ove proizvode možete vratiti na lokalnim mestima za prikupljanje.

Aby chronić nasze środowisko naturalne oraz jako firma dbająca o ekologie, MSI przypomina, że..

Zgodnie z Dyrektywa Unii Europejskiej ("UE") dotyczaca odpadów produktów elektrycznych i elektronicznych (Dyrektywa 2002/96/EC), która wchodzi w życie 13 sierpnia 2005, tzw. "produkty oraz wyposażenie elektryczne i elektroniczne " nie mogą być traktowane jako śmieci komunalne, tak wiec producenci tych produktów będą zobowiązani do odbierania ich w momencie gdy produkt jest wycofywany z użycia. MSI wypełni wymagania UE, przyjmując produkty (sprzedawane na terenie Unii Europejskiej) wycofywane z użycia. Produkty MSI będzie można zwracać w wyznaczonych punktach zbiorczych.

Cevreci özelliğiyle bilinen MSI dünyada cevrevi korumak icin hatırlatır:

Avrupa Birliği (AB) Kararnamesi Elektrik ve Elektronik Malzeme Atığı, 2002/96/EC Kararnamesi altında 13 Ağustos 2005 tarihinden itibaren geçerli olmak üzere,

elektrikli ve elektronik malzemeler diğer atıklar gibi çöpe atılamayacak ve bu elektonik cihazların üreticileri, cihazların kullanım süreleri bittikten sonra ürünleri geri toplamakla yükümlü olacaktır. Ayrupa Birliği'ne satılan MSI markalı ürünlerin kullanım süreleri bittiğinde MSI ürünlerin geri alınması isteği ile işbirliği içerisinde olacaktır. Ürünlerinizi yerel toplama noktalarına bırakabilirsiniz.

Záleží nám na ochraně životního prostředí - společnost MSI upozorňuje...

Podle směrnice Evropské unie ("EU") o likvidaci elektrických a elektronických výrobků 2002/96/ EC platné od 13. srpna 2005 je zakázáno likvidovat "elektrické a elektronické výrobky" v běžném komunálním odpadu a výrobci elektronických výrobků, na které se tato směrnice vztahuje, budou povinní odebírat takové výrobky zpět po skončení jejich životnosti. Společnost MSI splní požadavky na odebírání výrobků značky MSI, prodávaných v zemích EU, po skončení jejich životnosti. Tyto výrobky můžete odevzdat v místních sběrnách.

Annak érdekében, hogy környezetünket megvédjük, illetve környezetvédőként fellépve az MSI emlékezteti Önt, hogy ...

Az Európai Unió ("EU") 2005. augusztus 13-án hatályba lépő, az elektromos és elektronikus berendezések hulladékairól szóló 2002/96/EK iránvelve szerint az elektromos és elektronikus berendezések többé nem kezelhetőek lakossági hulladékként, és az ilyen elektronikus berendezések gyártói kötelessé válnak az ilyen termékek visszavételére azok hasznos élettartama végén. Az MSI betartia a termékvisszavétellel kapcsolatos követelményeket az MSI márkanév alatt az EU-n belül értékesített termékek esetében, azok élettartamának végén. Az ilyen termékeket a legközelebbi gyűjtőhelyre viheti.

Per proteggere l'ambiente, MSI, da sempre amica della natura, ti ricorda che..

In base alla Direttiva dell'Unione Europea (EU) sullo Smaltimento dei Materiali Elettrici ed Elettronici, Direttiva 2002/96/EC in vigore dal 13 Agosto 2005, prodotti appartenenti alla categoria dei Materiali Elettrici ed Elettronici non possono più essere eliminati come rifiuti municipali: i produttori di detti materiali saranno obbligati a ritirare ogni prodotto alla fine del suo ciclo di vita. MSI si adequerà a tale Direttiva ritirando tutti i prodotti marchiati MSI che sono stati venduti all'interno dell'Unione Europea alla fine del loro ciclo di vita. È possibile portare i prodotti nel più vicino punto di raccolta

日本JIS C 0950材質宣言

日本工業規格JIS C 0950により、2006年7月1日以降に販 売される特定分野の電気および電子機器について、製造 者による含有物質の表示が義務付けられます。

https://storage-asset.msi.com/html/popup/csr/ cemm_jp.html

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.

Türkiye EEE yönetmeliği

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Україна обмеження на наявність небезпечних речовин

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнані, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057.

Việt Nam RoHS

Kể từ ngày 01/12/2012, tất cả các sản phẩm do công ty MSI sản xuất tuân thủ Thông tư số 30/2011/TT-BCT quy định tam thời về giới han hàm lương cho phép của một số hóa chất độc hai có trong các sản phẩm điện, điển tử"

Wireless Radio Use

This device is restricted to indoor use when operating in the 2.4GHz, 5GHz frequency band.

Cet appareil doit être utilisé à l'intérieur.

당해 무선설비는 운용중 전파혼신 가능성이 있음.

この製品は、周波数帯域 2.4GHz, 5GHz で動作していると きは、屋内においてのみ使用可能です。

NCC無線設備警告聲明

工作頻率2.4GHz.5GHz該頻段限於室內使用。

經型式認證合格之低功率射頻電機,非經許可,公司、商 號或使用者均不得擅自變更頻率、加大功率或變更原設 計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通 信;經發現有干擾現象時,應立即停用,並改善至無干擾時 方得繼續使用。前項合法通信,指依電信法規定作業之無 線電通信。低功率射頻電機須忍受合法通信或工業、科學 及醫療用電波輻射性電機設備之干擾。

Products with radio functionality (EMF)

This product incorporates a radio transmitting and receiving device. For computers in normal use, a separation distance of 20 cm ensures that radio frequency exposure levels comply with EU requirements. Products designed to be operated at closer proximities, such as tablet computers, comply with applicable EU requirements in typical operating positions. Products can be operated without maintaining a separation distance unless otherwise indicated in instructions specific to the product.

Restrictions for products with radio functionality



Power Output

CAUTION: IEEE 802.11x wireless LAN with 5.15-5.35 GHz frequency band is restricted for indoor use only in all European Union member states. EFTA (Iceland, Norway,

Liechtenstein), and most other European countries (e.g., Switzerland, Turkey, Republic of Serbia). Using this WLAN application outdoors might lead to interference issues with existing radio services.

Radio frequency bands and maximum power levels

:10, 20, 23

Features :802.11 a/b/g/n/ac/ax, BT Frequency Range :2.4GHz, 5GHz :FHSS, DSSS, OFDM Modulation

Channel Band Width :1, 5, 20, 40, 80, 160MHz

MS-7D18主板产品中有害物质的名称及含量

	有害物质						
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)	
印刷电路板组件*	×	0	0	0	0	0	
电池** 1	×	0	0	0	0	0	
外部信号连接头	×	0	0	0	0	0	
线材	X	0	0	0	0	0	

本表格依据 SJ/T 11364 的规定编制。

- ○:表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
- <: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求,但所有部件都符合 欧盟RoHS要求。
- * 印刷电路板组件: 包括印刷电路板及其构成的零部件。
- ** 电池本体上如有环保使用期限标识,以本体标识为主。
- 上述有毒有害物质或元素清单会依型号之部件差异而有所增减。
- 产品部件本体上如有环保使用期限标识,以本体标识为主。

限用物質含有情況標示聲明書

設備名稱:電腦主機	板						
	限用物質及其化學符號						
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr ⁺⁶)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)	
電路板	0	0	0	0	0	0	
電子元件	_	0	0	0	0	0	
金屬機構件	_	0	0	0	0	0	
塑膠機構件	0	0	0	0	0	0	

備考1. "超出0.1 wt %" 及 "超出0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準值。

備考2. "○" 係指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. "一" 係指該項限用物質為排除項目。

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Revision History

Version 1.0. 2021/02. First release. Version 1.3, 2021/05, Updated release.

Technical Support

If a problem arises with your system and no solution can be obtained from the user quide, 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

