

B760MGAMINGPLUSWIFI

MSI B760M Gaming Plus WiFi B760 Chipset 14th/ 13th/ 12th Gen LGA 1700 mATX Motherboard

Product Overview

MSI B760M Gaming Plus WiFi B760 Chipset 14th/ 13th/ 12th Gen LGA 1700 mATX Motherboard, 4x DDR5, Maximum Memory Capacity 256GB, Memory Support DDR5 6800 (OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(JEDEC)/ 5400(JEDEC)/ 5200(JEDEC)/ 5000(JEDEC)/ 4800(JEDEC) MHz, 1x Power Connector(ATX_PWR), 2x Power Connector(CPU_PWR), 1x CPU Fan, 1x Pump Fan, 2x System Fan, 2x Front Panel (JFP), 1x Chassis Intrusion (JCI), 1x Front Audio (JAUD), 1x Com Port (JCOM), 2x Addressable V2 RGB LED connector (JARGB_V2), 1x RGB LED connector(JRGB), 1x TPM pin header(Support TPM 2.0), 4x USB 2.0 ports, 4x USB 5Gbps Type A ports, 1x USB 5Gbps Type C ports, Keyboard / Mouse, DisplayPort, 2 x USB 3.2 Gen 1 5Gbps (Type-A), 2.5G LAN, Wi-Fi / Bluetooth, 2 x USB 2.0, HDMI, 2 x USB 3.2 Gen 2 10Gbps (Type-A), Audio Connectors, mATX, 243.84mmx243.84mm



Specifications

Overview:

B760M GAMING PLUS WIFI is designed with tons of connectivity, flexible tools, and convenient Wi-Fi solution with DDR5 memory version for gamers who want it all.

Features:

Extended Heatsink

Extended Heatsink enlarges the surface of heat dissipation and maintain the performance at heavy loads.

M.2 Shield Frozr

Strengthened M.2 thermal solution helps M.2 SSD safe and ensures incredible performance.

Heavy Plated VRM Heatsink

The VRM heatsink covers the upper MOS and helps dissipate the heat.

7W/mK Thermal Pad & Additional Choke Pad

High-quality 7W/mK MOSFET thermal pads and additional choke thermal pads ensure stable performance when all cores are running at high speed.

OPTIMIZED FOR WATER COOLING

Designed to support the most popular All-In-One & customized water cooling solutions on the market. A dedicated water pump

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PIN header supports up to 3 amp, giving you full control of the water pump speed. A clearly marked 'keep-out-zone' allows for easy and safe installation and a perfect fit.

12 1 1 DUET RAIL POWER SYSTEM

Unleash and sustain the maximum performance with a VRM design built with a total of 12 1 1 power design. Combining dual power connectors and exclusive Core Boost technology, B760M GAMING PLUS WIFI is ready to sustain heavy daily work.

OPTIMIZED PCB SOLUTION

The PCB design has been optimized for higher bandwidth and faster transfer speeds, which is also beneficial for reliable circuit transmission.

EZ M.2 clip

Have trouble turning screws? MSI innovative EZ M.2 clip assist you install an M.2 SSD quickly and effortlessly.

Driver utility installer

Once connected to the internet, MSI Driver Utility Installer will detect and present suitable drivers and utilities automatically, you can download and install with just a few clicks.

solid pin design

The 4-pin, 8-pin, and 24-pin power connectors of MSI motherboards are all designed with solid pins. The solid pin design allows for a more stable transmission of 12V power to the CPU, even when handling high current loads.

Advantages of Solid Pin Power connector

- Improved stability : Larger contact area enhances stability during power delivery.
- Low impedance : Solid pins offer low impedance, enabling efficient power flow.
- Strong durability : The solid pin design ensures strong durability, capable of withstanding demanding conditions.
- Suitable for high-current applications.

Anti-corrosive Stainless Steel IO Shield

Corrosive resistance IO Shield to help improve static electricity and reduce electromagnetic radiation noise from the system as well as more durable compare to traditional IO Shields.

The Grounding Structure of Power Phases

The grounding structure of power phases is the MSI's exclusive design. This patented design enables to suppress the electromagnetic interference (EMI) generated by the power phases and helps to efficiently conduct heat to the copper plane with grounding properties.

Over Current Protection

MSI motherboards prioritize safety with the embedded Overcurrent Protection (OCP), ensuring crucial components such as the USB ports, DDR memory, PWM IC, and CPU are shielded from excessive current. This proactive defense mechanism curtails the risk of damage or malfunction due to power surges, promoting long-term system stability. This commitment to safeguarding your hardware underscores MSI's dedication to producing motherboards that prioritize durability and stability.

Transient Voltage Suppressors (TVS)

Transient Voltage Suppressors (TVS) are safety devices used to protect against excessive voltage. All motherboard models of MSI are equipped with TVS. When the voltage abnormally rises, the TVS switches from a high-resistance state to a low-resistance state, diverting the excessive voltage to ground. This helps prevent circuit damage caused by high voltage.

LIGHTNING GEN 4 PCI-E

Doubling over the previous generation, the bandwidth of a x16 interface can reach 64GB/s.

REINFORCED, HEAVY SOLDERED CONNECTIONS

Secure to the motherboard with extra solder points and support the weight of heavy graphics cards.

FAST AND FUTURE-READY STORAGE

B760M GAMING PLUS WIFI motherboard supports all the latest storage standards, which allows users to connect any ultra-fast storage device. Start games faster, load levels faster and have a real advantage over your enemies.

USB FRONT TYPE-C

MSI gaming motherboards support USB Front Type-C that allows gamers to connect with the latest USB devices. Built up a system with MSI PC case to have the most convenient experience.

LATEST DDR5 MEMORY WITH SMT SLOT

A huge step of DDR performance enhancement with the latest DDR5 memory. Combines with dedicated SMT welding process and MSI Memory Boost technology, B760M GAMING PLUS WIFI motherboards are ready to deliver the world class memory performance.

SMT

The advanced SMT(Surface Mount Technology) welding process reduces the defect rate of slot solder joints, electromagnetism, and interference. Combining with exclusive Memory Boost technology allows MSI motherboards to deliver the clean and pure high-frequency DDR5 signal.

EASY OVERCLOCKING WITH XMP PROFILE

The XMP (Extreme Memory Profiles) in MSI BIOS are tested and certified by MSI OC LAB. It is easy to enable with auto power settings to get the best memory speed and stability.

Memory Extension Mode

Memory Extension Mode provides optimized memory parameters for enhanced capability at the same frequency, achieving lower latency and higher performance. Furthermore, Memory Extension Mode can combine XMP profiles to maximize memory frequency, enabling users to effortlessly discover the best configuration based on their requirements.

Click BIOS 5

Get more from a loaded BIOS designed for ease of use. Fine-tune the motherboard for gaming performance, efficiency, or overclocking world records!

XMP

Choose from a preset XMP profile and automatically overclock compatible DDR memory.

VMD (Volume Management Device)

Enable direct control and management of NVMe SSDs from the PCIe bus without additional hardware adaptors.

M-FLASH

Conveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.

HARDWARE MONITOR

Get immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.

MEMORY TRY IT

Get extreme speed out of your system memory and get more performance.

SEARCH & FAVORITES

A permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

MSI Center

MSI brand new MSI Center unifies a suite of MSI software utilities into a single centralized application. Take control of advanced motherboards features and unleash endless possibilities.

Exclusive UI of AIDA64 Extreme

MSI motherboards provide 60 days free trial of AIDA64 Extreme - MSI edition. AIDA64 Extreme is an almighty application for system information, diagnostics and benchmarks. With the application, you can monitor the detailed hardware and software information on PC and save it to file in multiple formats such as CSV and HTML.

Opt-in to Cyber Safety with Norton 360 Deluxe

Multiple layers of protection for your devices, online privacy features including our Secure VPN, plus Dark Web Monitoring - all in a single solution. With MSI motherboards, you can enjoy a 60-day free trial of Norton 360 Deluxe.

Resizable BAR

Resizable BAR (Re-Size BAR) is an advanced PCI Express feature that enables the CPU to access the entire GPU frame buffer at once and improve performance.

The Isolated Analogy Structure for Audio Connectors

To provide clear voice, MSI develops a unique structure - Isolated Analogy Structure. The external metal framework of the audio connectors is separated from the internal layout, which ensures the sound quality crisp.

EXTEND YOUR RGB EXPERIENCE WITH EASE

Add more color if you want! Mystic Light Extension pin header provides an intuitive way to control additional RGB strips and other RGB peripherals added to a system, without needing a separate RGB controller.

HIGH-BANDWIDTH AND LOW-LATENCY NETWORK

MSI's premium network solution provides incredible data transfer speed for demanding users.

Specifications:

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Specifications	
Product Code	B760MGAMINGPLUSWIFI
Chipset	INTEL B760
CPU	Support Intel Core 14th/ 13th/ 12th Gen Processors, Intel Pentium Gold and Celeron Processors
	LGA 1700

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Memory	4x DDR5, Maximum Memory Capacity 256GB
	Memory Support DDR5 6800 (OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(JEDEC)/ 5400(JEDEC)/ 5200(JEDEC)/ 5000(JEDEC)/ 4800(JEDEC) MHz
	Max. overclocking frequency:
	1DPC 1R Max speed up to 6800 MHz
	1DPC 2R Max speed up to 6400 MHz
	2DPC 1R Max speed up to 6000 MHz
	2DPC 2R Max speed up to 5600 MHz
	Supports Intel XMP 3.0 OC
	Supports Dual-Controller Dual-Channel mode
	Supports non-ECC, un-buffered memory
Onboard Graphics	2x HDMI
	Support HDMI 2.1, maximum resolution of 4K 60Hz
	2x DisplayPort
	Support DP 1.4, maximum resolution of 4K 60Hz
	*Available only on processors featuring integrated graphics. Graphics specifications may vary depending on the CPU installed.
Slot	2x PCI-E x16 slot
	1x PCI-E x1 slot
	PCI_E1 Gen PCIe 4.0 supports up to x16 (From CPU)
	PCI_E2 Gen PCIe 3.0 supports up to x1 (From Chipset)
	PCI_E3 Gen PCIe 4.0 supports up to x4 (From Chipset)
Storage	2x M.2
	M.2_1 Source (From CPU) supports up to PCIe 4.0 x4, supports 2280/2260/2242 devices
	M.2_2 Source (From Chipset) supports up to PCIe 4.0 x4 / SATA mode, supports 2280/2260/2242 devices
	4x SATA 6G
	* SATA8 will be unavailable when installing M.2 SATA SSD in the M2_2 slot.
RAID	Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
USB	2x USB 2.0 (Rear)
	4x USB 2.0 (Front)
	2x USB 5Gbps Type A (Rear)
	4x USB 5Gbps Type A (Front)
	1x USB 5Gbps Type C (Front)
	2x USB 10Gbps Type A (Rear)
LAN	Realtek RTL8125BG 2.5G LAN

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WIRELESS LAN & BLUETOOTH	Intel Wi-Fi 6E
	The Wireless module is pre-installed in the M.2 (Key-E) slot
	Supports MU-MIMO TX/RX, 2.4GHz / 5GHz / 6GHz* (160MHz) up to 2.4Gbps
	Supports 802.11 a/ b/ g/ n/ ac/ ax
	Supports Bluetooth 5.3, FIPS, FISMA
	* Wi-Fi 6E 6GHz may depend on every country's regulations and will be ready in Windows 11.
	** Bluetooth 5.3 will be ready in Windows 10 build 21H1 and Windows 11.
Audio	Realtek ALC897 Codec
	7.1-Channel High Definition Audio
Internal IO	1x Power Connector(ATX_PWR)
	2x Power Connector(CPU_PWR)
	1x CPU Fan
	1x Pump Fan
	2x System Fan
	2x Front Panel (JFP)
	1x Chassis Intrusion (JCI)
	1x Front Audio (JAUD)
	1x Com Port (JCOM)
	2x Addressable V2 RGB LED connector (JARGB_V2)
	1x RGB LED connector(JRGB)
	1x TPM pin header(Support TPM 2.0)
	4x USB 2.0 ports
	4x USB 5Gbps Type A ports
	1x USB 5Gbps Type C ports
LED FEATURE	4x EZ Debug LED
BACK PANEL PORTS	1. Keyboard / Mouse
	2. DisplayPort
	3. USB 3.2 Gen 1 5Gbps (Type-A)
	4. 2.5G LAN
	5. Wi-Fi / Bluetooth
	6. USB 2.0
	7. HDMI
	8. USB 3.2 Gen 2 10Gbps (Type-A)
	9. Audio Connectors
OPERATING SYSTEM	Support for Windows 11 64-bit, Windows 10 64-bit
PCB Info	mATX
	243.84mmx243.84mm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/B760MGAMINGPLUSWIFI-MSI-B760M-Gaming-Plus-WiFi-B760-Buy-p-299082.php>

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