

## B760I EDGE WIFI

MSI MPG B760I EDGE WIFI DDR5 Intel 12th / 13th Gen Socket LGA 1700 Mini-ITX Motherboard

### Product Overview

MSI MPG B760I EDGE WIFI DDR5 Intel 12th / 13th Gen Socket LGA 1700 Mini-ITX Motherboard, 2x DDR5 DIMM Memory slots, 1x HDMI, 1x DisplayPort, 1x PCI-e x16 slot, 2x M.2 slots, 4x SATA 6G, USB 3.2 Gen1 Type-A, USB 3.2 Gen2 Type-A, USB 3.2 Gen2 Type-C, USB 2.0, Realtek RTL8125BG 2.5Gbps LAN, Intel Wi-Fi 6E, Bluetooth, 7.1-channel USB high performance audio, Audio connectors





## Specifications

### Overview:

#### MPG B760I EDGE WIFI

- Supports Intel Core 14th, 13th and 12th Gen Processors, IntelPentium Gold, Celeron Processor and Intel Processor 300(T) for LGA 1700 socket
- Supports DDR5 Memory, up to 7200+(OC) MHz
- Lightning Fast Game experience: PCIe 5.0 slots, Lightning Gen 4 x4 M.2, USB 3.2 Gen 2
- Enhanced Power Design: Direct 8+1+1 phases power, Core Boost, Memory Boost
- Premium Thermal Solution: Enlarged heatsink, MOSFET thermal pads rated for 7W/mk, additional choke thermal pads and M.2 Shield Frozr are built for high performance system and non-stop gaming experience
- 2.5G LAN and Intel Wi-Fi 6E Solution: Upgraded network solution for professional and multimedia use. Delivers a secure, stable and fast network connection
- AUDIO BOOST: Reward your ears with studio grade sound quality for the most immersive gaming experience
- High Quality PCB: 8-layer PCB made by server grade level material
- Pre-installed I/O Shield: Better EMI protection and more convenience for installation

### Features:

#### BE AHEAD, POP YOUR STYLE

The MPG series brings out fashionable products by showing extremely unique styles and expressing a conceited attitude towards the challenge of the gaming world. With extraordinary performance and style, the MPG series defines the future of gaming fashion.

#### PREMIUM THERMAL SOLUTION

- Extended Heatsink
- 7W/mK MOSFET Thermal Pads
- Pump Fan Support
- M.2 Shield Frozr

#### HIGH-SPEED TRANSMISSION

- HDMI 2.1
- 2.5G LAN
- Latest Wi-Fi 6E
- Memory Boost
- Lightning Gen 5 PCI-E

#### EASY TO USE, STABLE AND DURABLE

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### Product Specification Sheet

- Pre-installed I/O Shield
- Steel Armor
- 8-Layer Server Grade PCB
- Direct 8+1+1 VRM Power
- EZ Debug LED

### HARDWARE

- Extended HeatsinkExtended Heatsink enlarges the surface of heat dissipation, ensuring even high-end processors to run in full speed.
- 7W/mK Thermal PadHigh quality 7W/mK MOSFET thermal pads and extra choke thermal pads ensure all cores running in high performance.
- M.2 Shield FrozrKeeps M.2 SSDs safe while preventing throttling, making them run faster.
- Pump Fan SupportControl watercooling pump speeds for best flow and noise control.
- 8-Layer Server Grade PCB8-layer PCB with 2oz thickened copper provides higher performance and long-lasting system stability without any compromise.

### FROZR AI COOLING

MSI motherboards let you manage speeds and temperatures for all your system and CPU fans in BIOS and software with a simplified graphical interface. You can also set up to 4 temperature targets, which will adjust the fan speeds automatically. Detecting CPU & GPU temperatures and automatically adjusting fan duty of system fans to a proper value by adopting MSI AI ENGINE.

MSI fan headers automatically detect fans running in DC or PWM mode for optimal tuning of fan speeds and silence. Hysteresis also makes your fans spin up fluently to make sure your system stays silent, no matter what.

### OPTIMIZED FOR WATER COOLING

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

### DIRECT 8+1+1 PHASES POWER DESIGN

Unleash and sustain the maximum performance with a flagship VRM design built with a total of direct 8+1+1 digital power phases. Combining Core Boost and 90A Smart Power Stage, MPG B760I EDGE WIFI is ready for the challenge of high-end processors.

### DIGITAL POWER DESIGN

A fully digital power design allows for faster and undistorted current delivery to the CPU at pin-point precision.

### CORE BOOST

Premium layout not only support the multi-core CPU, also create the perfect conditions for your CPU overclocking.

### 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 DEBUG LED

With MSI you benefit from great compatibility and a worry-free user experience when using Microsoft Windows 11. With a true dedication to performance, our R&D team has made sure everything works as intended when using the latest version of Microsoft Windows on any MSI product.

The patent-pending design protect your IO ports and makes your installation process easier and safer.

The enlarged PCI-E clip helps you swap or remove your devices easier. Keep the PCI-E slot stronger and safer.

Onboard LEDs will indicate the source of the problem so you know exactly where to look to get up and running again.

### LIGHTNING GEN 5 PCI-E

Doubling over the previous generation, the bandwidth of a x16 interface can reach 128GB/s.

### SMT PCIE 5.0 SLOT

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The advanced SMT(Surface Mount Technology) PCIE slot diminish interference and electrical noise, fully support the PCI-E 5.0 signal.

#### 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

MSI MPG series motherboards support 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.

#### 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, MPG B760I EDGE WIFI is ready to deliver the world class memory performance.

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.

- MSI CENTER
- CLICK BIOS 5
- AIDA64
- NORTON 360
- MORE FOR OPERABILITY

#### EZ-MODE ADVANCED MODE

- XMPChoose 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-FLASHConveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.
- HARDWARE MONITORGet immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.
- MEMORY TRY ITGet extreme speed out of your system memory and get more performance.
- SEARCH & FAVORITESA permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

#### 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.

#### 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

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### Product Specification Sheet

|                         |                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>     | B760I EDGE WIFI                                                                                                                                                                 |
| <b>CHIPSET</b>          | INTEL B760                                                                                                                                                                      |
| <b>CPU SUPPORT</b>      | Supports 12th/13th Gen Intel Core Processors, Pentium Gold and Celeron Processors                                                                                               |
|                         | LGA 1700                                                                                                                                                                        |
| <b>MEMORY</b>           | 2x DDR5, Maximum Memory Capacity 96GB                                                                                                                                           |
|                         | Memory Support 7200+(OC) / 7000(OC) / 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 7200+ MHz                                                                                                                                               |
|                         | 1DPC 2R Max speed up to 6600+ MHz                                                                                                                                               |
|                         | Supports Dual-Channel mode                                                                                                                                                      |
|                         | Supports non-ECC, un-buffered memory                                                                                                                                            |
|                         | Supports Intel Extreme Memory Profile (XMP)                                                                                                                                     |
|                         |                                                                                                                                                                                 |
| <b>ONBOARD GRAPHICS</b> | 1x HDMI                                                                                                                                                                         |
|                         | Support HDMI 2.1 with HDR, maximum resolution of 4K 60Hz                                                                                                                        |
|                         | 1x DisplayPort                                                                                                                                                                  |
|                         | Support DP 1.4, maximum resolution of 8K 60Hz                                                                                                                                   |
|                         | *Available only on processors featuring integrated graphics. Graphics specifications may vary depending on the CPU installed.                                                   |
| <b>EXPANSION SLOT</b>   | 1x PCI-E x16 slot                                                                                                                                                               |
|                         | PCI_E1 Gen PCIe 5.0 supports up to x16 (From CPU)                                                                                                                               |
| <b>STORAGE</b>          | 2x M.2                                                                                                                                                                          |
|                         | M.2_1 Source (From CPU) supports up to PCIe 4.0 x4, supports 2280 devices                                                                                                       |
|                         | M.2_2 Source (From Chipset) supports up to PCIe 4.0 x4 / SATA mode, supports 2280 devices                                                                                       |
|                         | 4x SATA 6G                                                                                                                                                                      |
| <b>RAID</b>             | Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices                                                                                                            |
| <b>USB</b>              | 2x USB 2.0 (Rear)                                                                                                                                                               |
|                         | 2x USB 2.0 (Front)                                                                                                                                                              |
|                         | 4x USB 3.2 Gen1 Type A (Rear)                                                                                                                                                   |
|                         | 2x USB 3.2 Gen1 Type A (Front)                                                                                                                                                  |
|                         | 1x USB 3.2 Gen2 Type A (Rear)                                                                                                                                                   |
|                         | 1x USB 3.2 Gen2 Type C (Rear)                                                                                                                                                   |
|                         | 1x USB 3.2 Gen2 Type C (Front)                                                                                                                                                  |
| <b>LAN</b>              | Realtek RTL8125BG 2.5Gbps LAN                                                                                                                                                   |

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### Product Specification Sheet

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|------------------------------|--------------------------------------------------------------------------------------------|
| <b>WIRELESS / BLUETOOTH</b>  | 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.                    |
| <b>AUDIO</b>                 | Realtek ALC897 Codec                                                                       |
|                              | 7.1-Channel USB High Performance Audio                                                     |
| <b>INTERNAL I/O</b>          | 1x Power Connector(ATX_PWR)                                                                |
|                              | 1x Power Connector(CPU_PWR)                                                                |
|                              | 1x CPU Fan                                                                                 |
|                              | 1x Pump Fan                                                                                |
|                              | 1x System Fan                                                                              |
|                              | 2x Front Panel (JFP)                                                                       |
|                              | 1x Chassis Intrusion (JCI)                                                                 |
|                              | 1x Front Audio (JAUD)                                                                      |
|                              | 1x Addressable V2 RGB LED connector (JARGB_V2)                                             |
|                              | 1x RGB LED connector(JRGB)                                                                 |
|                              | 1x TPM pin header(Support TPM 2.0)                                                         |
|                              | 2x USB 2.0 ports                                                                           |
|                              | 2x USB 3.2 Gen1 Type A ports                                                               |
|                              | 1x USB 3.2 Gen2 Type C ports                                                               |
| <b>LED FEATURE</b>           | 4x EZ Debug LED                                                                            |
| <b>BACK PANEL PORTS</b>      | USB 3.2 Gen 1 5Gbps                                                                        |
|                              | Display Port                                                                               |
|                              | USB 3.2 Gen 2 10Gbps                                                                       |
|                              | 2.5G LAN                                                                                   |
|                              | Audio Connectors                                                                           |
|                              | HDMI                                                                                       |
|                              | USB 3.2 Gen 2 10Gbps (Type-C)                                                              |
|                              | USB 2.0                                                                                    |
|                              | Wi-Fi / Bluetooth                                                                          |
| <b>OPERATING SYSTEM</b>      | Support for Windows 11 64-bit, Windows 10 64-bit                                           |
| <b>PCB DIMENSION (W x L)</b> | Mini-ITX                                                                                   |
|                              | 170mmx170mm                                                                                |

## 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/B760I-EDGE-WIFI-MSI-MPG-B760I-EDGE-WIFI-DDR5-Intel-Buy-p-289438.php>**

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