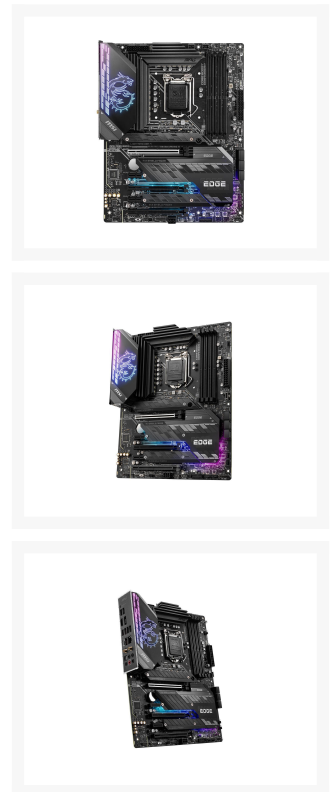


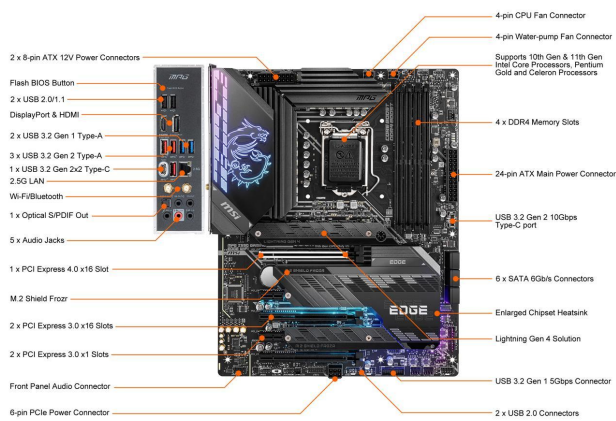


# MSI MPG Z590 Gaming Edge WiFi Gaming Motherboard ATX, 11th/10th Gen Intel Core, LGA 1200 Socket

\$329.99

## Product Images





## Short Description

Smart Design, Smart Connections

For PC connoisseurs looking to upgrade their game with great value Wi-Fi, the MSI MPG Z590 GAMING EDGE WIFI offers a powerful yet versatile platform supporting a broad spectrum of the state-of-the-art system processors and gaming hardware.

## Description



### MPG Z590 GAMING EDGE WIFI

*Smart Design, Smart Connections*

For PC connoisseurs looking to upgrade their game with great value Wi-Fi, the MSI MPG Z590 GAMING EDGE WIFI offers a powerful yet versatile platform supporting a broad spectrum of the state-of-the-art system processors and gaming hardware.



- Supports Intel Core 11th & 10th Gen Processors (LGA 1200)
- 14 Duet Rail Power System with 75A SPS
- Lightning Gen4 & Turbo Gen3 M.2 slots with Shield Frozr
- 1 x PCI-e 4.0 x16, 2x PCI-e 3.0 x16
- 4 DIMMS with DDR4 Boost: Dual Channel (128GB Max. / 5333MHz OC)
- Intel I225-V 2.5G LAN
- Wi-Fi 6E & Bluetooth 5.2



#### **MSI: For Gamers & Creators**

MSI is one of the most trusted names in gaming and esports with countless hours and significant resources invested into premier esports leagues and tier-1 gaming teams. By supporting and working with the best of the best, MSI is able to integrate competitive gaming knowledge and aspirations with technological innovation to create new products that shatter today's performance limits.

## Features

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## Z590 Chipset, 14 Duet Rail Power System, Smart Cooling, PCI-e 4.0 x16



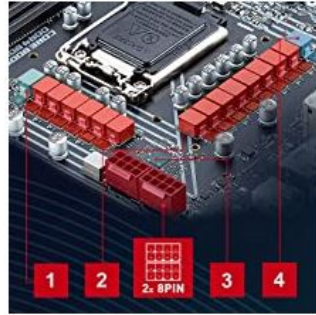
### Supports Intel Core 11th Gen Processors

The MPG Z590 GAMING EDGE WIFI motherboard supports 11th Gen Intel Core, 10th Gen Intel Core, Pentium Gold, and Celeron processors.

Form Factor: ATX

Socket Type: LGA 1200

Chipset: Intel Z590



### 14+1+1 Duet Rail Power System

With its dual 8-pin power connectors and exclusive Core Boost technology, the MPG Z590 GAMING PLUS is able to sustain heavy CPU power loads to support system-demanding game settings:

- 1-Phase GT Power
- 14 Duet Rail CPU Power System, Smart Power Stage 75A
- Digital PWM IC
- 1-Phase SA Power



### Integrated Cooling Features

**VRM Cooling:** Features a heavy-plated MOS heatsink, heat pipe and 7W/mK thermal pads.

**PCB Cooling:** Premium 6-layer printed circuit design with 2 oz. thickened copper improves heat dissipation & reliability.

**SSD Cooling:** M.2 Shield Frozr prevents thermal throttling.

**System Cooling:** Connect and synchronize cooling with strategically placed pin-headers - including a dedicated pump-fan header.



### Fortified PCI-e 4.0 x16

MSI PCI Express Steel Armor slots are secured to the motherboard with extra solder points to support the weight of heavy graphics cards. When every advantage in games counts, Steel Armor also shields the point of contact from electromagnetic interference:

- 1 x PCI-e 4.0/3.0 x16 slot (with Steel Armor)
- 2 x PCI-e 3.0 x16 slot (CrossFire supported)
- 2 x PCI-e 3.0 x1 slots

## Cutting-Edge Performance & Powerful Connectivity



### Gen4 & Gen3 M.2 Connectors

The MPG Z590 GAMING EDGE WIFI motherboard features MSI's latest M.2 slots (Intel Optane supported):

- 1 x Gen4 x4 64Gb/s slot
- 2 x Gen3 x4 32Gb/s slots

\*M.2 specifications may vary depending on the CPU installed.



### M.2 Shield Frozr

Even the world's fastest SSDs will automatically slow if thermal throttling firmware detects excessively high temperatures.

**M.2 Shield Frozr** is MSI's most advanced thermal solution, offering the best possible protection to ensure maximum SSD transfer speed performance.



### 4 x DDR4 Dual Channel (5333 MHz OC)

**DDR4 Boost:** A fully-isolated DDR circuit delivers pure data signals for optimal gaming and overclocking performance.

XMP profiles in MSI BIOS are MSI OC LAB tested and can be easily enabled with auto power settings for optimized memory speed and stability.



### Wi-Fi 6E & Bluetooth 5.2

**2.5G LAN:** An Intel I225-V 2.5Gbps LAN controller delivers a premium network gaming experience.

**USB 3.2 Gen 2x2 Type-C:** Connect to devices and transfer files at unpredicted rates: 20Gb/s.

**HD Audio:** 7.1-Channel High Definition Audio with Audio Boost 5 & S/PDIF output.

**Wi-Fi 6E:** The latest Wi-Fi 6E solution supports 6GHz spectrum, while Bluetooth 5.2 offers data transfer speeds up to 2400Mbps.

## Specifications

Model

**Brand** MSI

**Model** MPG Z590 GAMING EDGE WIFI

Supported CPU

**CPU Socket Type** LGA 1200

**CPU Type** Supports 11th / 10th Gen Intel Core processors  
Supports Intel Pentium Gold / Celeron processors

Chipsets

**Chipset** Intel Z590

Onboard Video

**Onboard Video Chipset** Supported only by CPU with integrated graphic

Memory

**Number of Memory Slots** 4×288pin

**Memory Standard** DDR4 5333(OC)

**Maximum Memory Supported** 128GB

**Channel Supported** Dual Channel

Expansion Slots

**PCI Express 4.0 x16** 1 x PCI Express 4.0 x16

**PCI Express 3.0 x16** 2 x PCI Express 3.0 x16

**PCI Express x1** 2 x PCIe 3.0 x1

Storage Devices

**SATA 6Gb/s** 6 x SATA 6Gb/s

**M.2** 1 x M.2 Gen4 x4 64Gb/s slot  
2 x M.2 Gen3 x4 32Gb/s slots

**Intel Optane Ready** Yes

Onboard Audio

**Audio Channels** 7.1 Channels

Onboard LAN

**LAN Chipset** Intel I225-V

**Max LAN Speed** 10/100/1000/2500Mbps

**Wireless LAN** Intel Wi-Fi 6E AX210

**Bluetooth** Bluetooth 5.2

Rear Panel Ports

**Back I/O Ports**  
1 x DisplayPort  
1 x HDMI  
1 x Optical S/PDIF Out  
1 x USB 3.2 Gen 2x2 Type-C  
2 x USB 2.0/1.1  
2 x USB 3.2 Gen 1 Type-A  
3 x USB 3.2 Gen 2 Type-A  
5 x Audio Jacks  
Wi-Fi/Bluetooth  
Flash BIOS Button

## Additional Information

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Brand	MSI
SKU	MSI-Z590EDGEWIFI
Weight	4.0000
Color	Black
Processor Manufacturer	Intel
Vendor SKU/EAN	824142242162

