



# msi

MOTHERBOARDS

## MPG Z590 GAMING FORCE

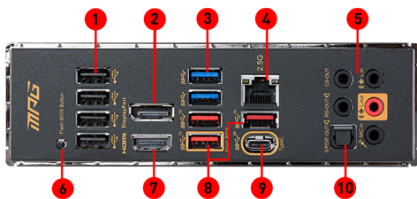
GAME IN STYLE



## SPECIFICATIONS

|                           |                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model Name</b>         | MPG Z590 GAMING FORCE                                                                                                                    |
| <b>CPU Support</b>        | Supports 10th Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors                       |
| <b>CPU Socket</b>         | LGA 1200                                                                                                                                 |
| <b>Chipset</b>            | Intel® Z590 Chipset                                                                                                                      |
| <b>Graphics Interface</b> | 2x PCIe 4.0 x16 slots, 1x PCIe 3.0 x16 slot<br>Support 3-way AMD® CrossFire™ Technology                                                  |
| <b>Display Interface</b>  | Support 4K@60Hz as specified in HDMI 2.0b, DisplayPort 1.4<br>- Requires Processor Graphics                                              |
| <b>Memory Support</b>     | 4 DIMMs, Dual Channel DDR4-5333 (OC)                                                                                                     |
| <b>Expansion Slots</b>    | 2x PCIe 3.0 x1 slots                                                                                                                     |
| <b>Storage</b>            | 1x M.2 Gen4 x4 64Gb/s slot, 2x M.2 Gen3 x4 32Gb/s slots,<br>Support Intel® Optane™ Technology,<br>6x SATA 6Gb/s ports                    |
| <b>USB ports</b>          | 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)<br>4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C)<br>4x USB 3.2 Gen 1 5Gbps (4 Type-A)<br>8x USB 2.0 |
| <b>LAN</b>                | Intel® I225-V 2.5G LAN                                                                                                                   |
| <b>Audio</b>              | 8-Channel (7.1) HD Audio with Audio Boost 5                                                                                              |

## CONNECTIONS



- |                                  |                                |
|----------------------------------|--------------------------------|
| 1. USB 2.0                       | 2. DisplayPort                 |
| 3. USB 3.2 Gen 1 5Gbps Type-A    | 4. 2.5G LAN                    |
| 5. Audio Connectors              | 6. Flash BIOS Button           |
| 7. HDMI                          | 8. USB 3.2 Gen 2 10Gbps Type-A |
| 9. USB 3.2 Gen 2x2 20Gbps Type-C | 10. Optical S/PDIF Out         |

## FEATURES



### Lightning Gen4 Solution

The latest Gen4 PCI-E and M.2 solution with up to 64GB/s bandwidth for maximum transfer speed.



### Core Boost

Combining dual 8 pin power connectors and IR digital power design, the GODLIKE is ready for more cores also provide better performance.



### Premium Thermal Design

Heavy plated mosfet heatsink with heat-pipe / high quality 7W/mK mosfet thermal pads / extra choke thermal pads / 3x onboard M.2 Shield Frozr



### Lightning Gen4 Solution

The latest Gen4 PCI-E solution with up to 64GB/s bandwidth for maximum transfer speed.



### 10 Layer PCB with 2oz Thickened Copper

An Enhanced PCB design provides higher performance and long-lasting system stability without any compromise.



### 2.5G Network Solution

Featuring premium 2.5G LAN with LAN manager to deliver better network experience.



### Lightning USB 20G

Built-in USB 3.2 Gen 2x2 port, offers 20Gbps transmission speed, 4X faster than USB 3.2 Gen 1.



### Mystic Light RGB LED

Personalize your PC with 16.8 million colors / 29 effects, controlled in one click!



### DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.



### Audio Boost 5

Isolated audio with a high quality audio processor & amp for the most immersive gaming experience



### 2oz Thickened Copper PCB

An enhanced PCB design improves heat dissipation and performance reliability.