



# msi

MOTHERBOARDS

## MPG Z590 GAMING PLUS

GAME IN STYLE



### SPECIFICATIONS

<b>Model Name</b>	MPG Z590 GAMING PLUS
<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>	1x PCIe 4.0 x16 slot, 2x PCIe 3.0 x16 slots Support AMD® CrossFire™ Technology
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI 2.0b, DisplayPort 1.4 - 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, Support Intel® Optane™ Technology, 6x SATA 6Gb/s
<b>USB ports</b>	1x USB 3.2 Gen 2x2 20Gbps (1 Type-C) 4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C) 4x USB 3.2 Gen 1 5Gbps (4 Type-A) 6x 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

### FEATURES



#### 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.



#### Mystic Light RGB LED

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



#### Lightning USB 20G

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



#### Audio Boost 5 HD

Ultimate audio solution with premium audio processor combining ESS audio DAC and amplifier deliver the breathtaking experience.



#### 2oz Thickened Copper PCB

An enhanced PCB design improves heat dissipation and performance reliability.



#### 2.5G Network Solution

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



#### Core Boost

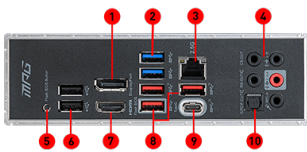
With premium layout and fully digital power design to support more cores and provide better performance.



#### DDR4 Boost

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

### CONNECTIONS



1. DisplayPort
2. USB 3.2 Gen 1 5Gbps Type-A
3. 2.5G LAN
4. Audio Connectors
5. Flash BIOS Button
6. USB 2.0
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