MOTHERBOARD

MPG Z590M GAMING EDGE WIFI

GAME IN STYLE



FEATURES

Premium Thermal Design

Heavy plated mosfet heatsink with heat-pipe / high quality 7W/mK MOSFET thermal pads / extra choke thermal pads / 2x 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!

2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.

Wi-Fi 6E

The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.

Lightning USB 20G

Powered by ASMedia ASM3242 USB 3.2 Gen2x2 controller, offers the fastest USB speeds with stability.

Audio Boost 5

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

Core Boost

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

DDR4 Boost

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

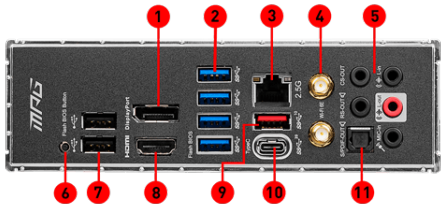
2oz Thickened Copper PCB

An enhanced PCB design improves heat dissipation and performance reliability.

SPECIFICATIONS

Model Name	MPG Z590M GAMING EDGE WIFI
CPU Support	Supports 10th Gen Intel® Core™ Processors,11th Gen Intel® Core™ Processors,Pentium® Gold and Celeron® processors
CPU Socket	LGA 1200
Chipset	Intel® Z590 Chipset
Graphics Interface	1x PCIe 4.0 x16 slot, 1x PCIe 3.0 x16 slot Support 2-way AMD® CrossFire™ Technology
Display Interface	Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4 – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-5333(OC)
Expansion Slots	1x PCIe 3.0 x1 slot
Storage	1x M.2 Gen4 x4 64Gb/s slot, 1x M.2 Gen3 x4 32Gb/s slots, supports Intel® Optane™ Technology 6x SATA 6Gb/s
USB ports	1 x USB 3.2 Gen 2x2 20Gbps (1 Type-C) , 2 x USB 3.2 Gen 2 10Gbps (1 Type-A + 1 Type-C), 6x USB 3.2 Gen 1 5Gbps (6 Type-A), , 6 x USB 2.0
LAN	Intel®I225-V 2.5G LAN
Wireless / Bluetooth	Intel®Wi-Fi 6E AX210, Bluetooth 5.2
Audio	8-Channel(7.1) HD Audio with Audio Boost 5

CONNECTIONS



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

Generated 2023-03-31, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.

© 2023 Micro-Star Int'l Co.Ltd. MSI is a registered trademark of Micro-Star Int'l Co.Ltd. All rights reserved.