



FEATURES



Extreme DDR5 Memory OC

The top-notch R&D design and exclusive 2 DIMM solution for an even clearer DDR5 memory signal to deliver the world class memory performance.



OC Engine

With the clock generator, the OC Engine technology releases the maximum power of CPU.



EZ Dashboard

Consolidate power, reset, clear CMOS buttons, and debug LED into one accessory card, streamlining the reboot and testing process for overlocking.



Lightning Gen 5

The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.



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

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



Extended Heatsink Design

MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.



M.2 Shield FROZR

Strengthened built-in M.2 thermal solution. Keeps M.2 SSDs safe while preventing throttling, making them run faster.



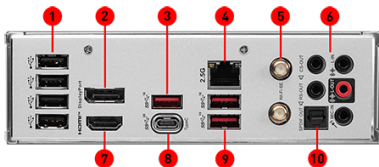
Audio Boost

Reward your ears with studio grade sound quality for the most immersive audio experience.

SPECIFICATIONS

Model Name	Z790MPOWER
CPU Support	Support Intel® Core™ 14th/ 13th/ 12th Gen Processors, Intel® Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1700
Chipset	Intel® Z790 Chipset
Expansion Slots	1x PCIe 5.0 x16 slot, 1x PCIe 4.0 x16 slot, 1x PCIe 3.0 x1 slot
Display Interface	Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 – Requires Processor Graphics
Memory Support	2 DIMMs, Dual Channel DDR5-8000+MHz (OC)
Storage	2x M.2 Gen 4 x4 64Gbps slots, 6x SATA 6Gbps ports
USB ports	1x USB 3.2 Gen 2x2 20Gbps (1 Type-C), 4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C), 2x USB 3.2 Gen 1 5Gbps (2 Type-A), 8x USB 2.0
LAN	Realtek® 2.5Gbps LAN
Wi-Fi / Bluetooth	Intel® Wi-Fi 6E module, Bluetooth 5.3
Audio	8-Channel (7.1) HD Audio with Audio Boost

CONNECTIONS



1. USB 2.0
2. DisplayPort 1.4
3. USB 3.2 Gen 2 10Gbps (Type-A)
4. 2.5G LAN
5. Wi-Fi / Bluetooth
6. HD Audio Connectors
7. HDMI™ 2.1 Port
8. USB 3.2 Gen 2x2 20Gbps (Type-C)
9. USB 3.2 Gen 2 10Gbps (Type-A)
10. Optical S/PDIF-Out