



FEATURES



Lightning Gen 5

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



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.



2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.



Pre-installed I/O Shielding

Better EMI protection and more convenience for installation



Frozr AI Cooling

Detect CPU & GPU temperatures and automatically adjust system fan duty to a proper value.



Memory Boost

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



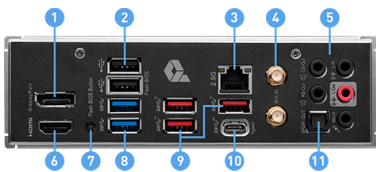
Core Boost

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

SPECIFICATIONS

| | |
|--------------------------|---|
| Model Name | PRO Z790-A WIFI DDR4 |
| CPU Support | Supports 12 th / 13 th Gen Intel® Core™ Processors, 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 2x PCIe 3.0 x1 slots |
| Display Interface | Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 - Requires Processor Graphics |
| Memory Support | 4 DIMMs, Dual Channel DDR4 5333+MHz (OC) |
| Storage | 4x M.2 Gen4 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), 4x USB 3.2 Gen 1 5Gbps (4 Type-A), 6x USB 2.0 |
| LAN | Intel® 2.5G LAN |
| WiFi / BT | Intel® Wi-Fi 6E, Bluetooth 5.2 |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost 5 |

CONNECTIONS



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