



## FEATURES



### Lightning Gen 5

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



### Latest DDR5 Memory

A huge step of DDR performance enhancement with the latest DDR5 memory and MSI Memory Boost technology.



### 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.



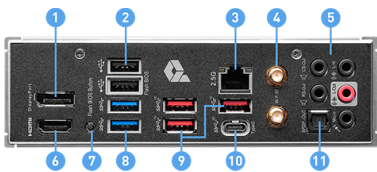
### Core Boost

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

## SPECIFICATIONS

|                          |                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model Name</b>        | PRO Z790-A WIFI                                                                                                                             |
| <b>CPU Support</b>       | Supports 12 <sup>th</sup> / 13 <sup>th</sup> Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors                             |
| <b>CPU Socket</b>        | LGA 1700                                                                                                                                    |
| <b>Chipset</b>           | Intel® Z790 Chipset                                                                                                                         |
| <b>Expansion Slots</b>   | 1x PCIe 5.0 x16 slot<br>1x PCIe 4.0 x16 slot<br>2x PCIe 3.0 x1 slots                                                                        |
| <b>Display Interface</b> | Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 – Requires Processor Graphics                                                    |
| <b>Memory Support</b>    | 4 DIMMs, Dual Channel DDR5 7200+MHz (OC)                                                                                                    |
| <b>Storage</b>           | 4x M.2 Gen4 x4 64Gbps slots,<br>6x SATA 6Gbps 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>6x USB 2.0 |
| <b>LAN</b>               | Intel® 2.5G LAN                                                                                                                             |
| <b>WiFi / BT</b>         | Intel® Wi-Fi 6E, Bluetooth 5.2                                                                                                              |
| <b>Audio</b>             | 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