













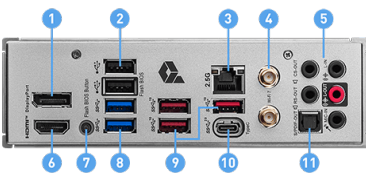
## SPECIFICATIONS

|                          |   |
|--------------------------|---|
| <b>Model Name</b>        | PRO Z790-A MAX WIFI   |
| <b>CPU Support</b>       | Support Intel® Core™ 14th/ 13th/ 12th Gen Processors, Intel® 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 DDR5-7800+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>         | Wi-Fi 7 Solution, Bluetooth 5.4   |
| <b>Audio</b>             | 8-Channel (7.1) HD Audio with Audio Boost 5   |

## FEATURES

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**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 7**  
 The latest wireless solution with a new 320MHz channel, achieving a maximum transmission speed of 5.8Gbps, which is 2.4 times faster than Wi-Fi 6/6E.
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**Lightning USB 20G**  
 Built-in USB 3.2 Gen 2x2 port, offers 20Gbps transmission speed, 4X faster than USB 3.2 Gen 1.
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**Extended Heatsink Design**  
 MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.
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**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.

## 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                 |                                   |