



## SPECIFICATIONS

|                           |   |
|---------------------------|---|
| <b>Model Name</b>         | PRO Z690-P DDR4   |
| <b>CPU Support</b>        | Supports 12th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors          |
| <b>CPU Socket</b>         | LGA 1700  |
| <b>Chipset</b>            | Intel® Z690 Chipset   |
| <b>Graphics Interface</b> | 1x PCIe 5.0 x16 slot<br>1x PCIe 3.0 x16 slot<br>Supports AMD® CrossFire™ Technology       |
| <b>Display Interface</b>  | Support 4K@30Hz as specified in HDMI™ 1.4b, DisplayPort 1.4 - Requires Processor Graphics |
| <b>Memory Support</b>     | 4 DIMMs, Dual Channel DDR4-5000+MHz(OC)   |
| <b>Expansion Slots</b>    | 3x PCIe 3.0 x1 slots<br>1x M.2 2230 with E-Key for Wi-Fi Module                           |
| <b>Storage</b>            | 2x M.2 Gen4 x4 64Gbps slots<br>supports Intel® Optane™ Technology<br>4x SATA 6Gbps ports  |
| <b>USB ports</b>          | 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)<br>8x USB 3.2 Gen 1 5Gbps (8 Type-A)<br>6x USB 2.0   |
| <b>LAN</b>                | Realtek® RTL8125BG 2.5G LAN   |
| <b>Audio</b>              | 8-Channel (7.1) HD Audio with Audio Boost   |

## FEATURES



### Lightning Gen 5

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



### Extended Heatsink Design

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



### 2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.



### Lightning USB 20G

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



### 8+4 Pin power supply

By providing 8+4 pin connectors to ensure adequate power supply to unleash ultimate multi-core CPU performance.



### Core Boost

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



### Memory Boost

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



### EZ Debug LED

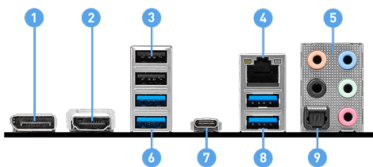
Easiest way to troubleshoot.



### Frozr AI Cooling

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

## CONNECTIONS



1. DisplayPort
2. HDMI™
3. USB 2.0
4. LAN port
5. Audio Connectors
6. USB 3.2 Gen 1 5Gbps Type-A
7. USB 3.2 Gen 2x2 20Gbps Type-C
8. USB 3.2 Gen 1 5Gbps Type-A
9. Optical S/PDIF Out