

## FEATURES



## SPECIFICATIONS

|                           |   |   |
|---------------------------|---|---|
| <b>Model Name</b>         | PRO Z690-P DDR4   | <b>Lightning Gen 5</b>  |
| <b>CPU Support</b>        | Supports 12th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors          | The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.                           |
| <b>CPU Socket</b>         | LGA 1700  | <b>Extended Heatsink Design</b>   |
| <b>Chipset</b>            | Intel® Z690 Chipset   | MSI extended PWM and enhanced circuit design ensures even high-end processors to run in full speed.             |
| <b>Graphics Interface</b> | 1x PCIe 5.0 x16 slot<br>1x PCIe 3.0 x16 slot<br>Supports AMD® CrossFire™ Technology       | <b>2.5G Network Solution</b>  |
| <b>Display Interface</b>  | Support 4K@30Hz as specified in HDMI™ 1.4b, DisplayPort 1.4 - Requires Processor Graphics | <b>Lightning USB 20G</b>  |
| <b>Memory Support</b>     | 4 DIMMs, Dual Channel DDR4-5000+MHz(OC)   | <b>8+4 Pin power supply</b>   |
| <b>Expansion Slots</b>    | 3x PCIe 3.0 x1 slots<br>1x M.2 2230 with E-Key for Wi-Fi Module                           | By providing 8+4 pin connectors to ensure adequate power supply to unleash ultimate multi-core CPU performance. |
| <b>Storage</b>            | 2x M.2 Gen4 x4 64Gbps slots<br>supports Intel® Optane™ Technology<br>4x SATA 6Gbps ports  | <b>Core Boost</b>   |
| <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   | With premium layout and fully digital power design to support more cores and provide better performance.        |
| <b>LAN</b>                | Realtek® RTL8125BG 2.5G LAN   | <b>Memory Boost</b>   |
| <b>Audio</b>              | 8-Channel (7.1) HD Audio with Audio Boost   | Advanced technology to deliver pure data signals for the best performance, stability and compatibility.         |
|                           |   | <b>EZ Debug LED</b>   |
|                           |   | Easiest way to troubleshoot.  |
|                           |   | <b>Frozr AI Cooling</b>   |
|                           |   | 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