MOTHERBOARD

# PRO Z690-A DDR4

BUSINESS ELEGANCE



## SPECIFICATIONS

| | |
|---|---|
| **Model Name** | PRO Z690-A DDR4 |
| **CPU Support** | Supports 12th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors |
| **CPU Socket** | LGA 1700 |
| **Chipset** | Intel® Z690 Chipset |
| **Graphics Interface** | 1x PCIe 5.0 x16 slot<br>1x PCIe 3.0 x16 slot<br>Supports AMD® CrossFire™ Technology |
| **Display Interface** | Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 – Requires Processor Graphics |
| **Memory Support** | 4 DIMMs, Dual Channel DDR4-5200+MHz(OC) |
| **Expansion Slots** | 1x PCIe 3.0 x16 slot<br>1x PCIe 3.0 x1 slot |
| **Storage** | 3x M.2 Gen4 x4 64Gbps slots<br>1x M.2 Gen3 x4 32Gbps slot<br>6x SATA 6Gbps ports |
| **USB ports** | 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)<br>2x USB 3.2 Gen 2 10Gbps (1 Type-A + 1 Type-C)<br>6x USB 3.2 Gen 1 5Gbps (6 Type-A)<br>8x USB 2.0 |
| **LAN** | Intel® I225-V 2.5G LAN |
| **Audio** | 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.

**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.

**EZ Debug LED**

Easiest way to troubleshoot.

**Frozr AI Cooling**

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

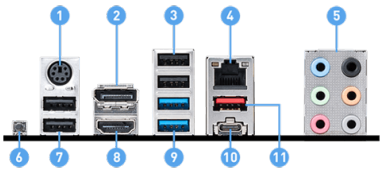
**Memory Boost**

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.

## CONNECTIONS




1. Keyboard / Mouse
2. DisplayPort
3. USB 2.0
4. LAN port
5. Audio connector
6. Flash BIOS Button
7. USB 2.0
8. HDMI™
9. USB 3.2 Gen 1 5Gbps Type-A
10. USB 3.2 Gen 2x2 20Gbps Type-C
11. USB 3.2 Gen 2 10Gbps Type-A

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