



# **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	1x PCle 5.0 x16 slot
Interface	1x PCle 3.0 x16 slot
	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)
<b>Expansion Slots</b>	1x PCle 3.0 x16 slot
	1x PCle 3.0 x1 slot
Storage	3x M.2 Gen4 x4 64Gbps slots
	1x M.2 Gen3 x4 32Gbps slot
	6x SATA 6Gbps ports
USB ports	1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)
	2x USB 3.2 Gen 2 10Gbps (1 Type-A + 1 Type-C)
	6x USB 3.2 Gen 1 5Gbps (6 Type-A)
	8x USB 2.0
LAN	Intel® I225-V 2.5G LAN
Audio	8-Channel (7.1) HD Audio with Audio Boost

## **FEATURES**



## M.2 Shield FROZR

Strengthened built-in M.2 thermal solution. Keeps M.2 SSDs safe while preventing throttling, making them run faster.



## **Optimum Thermal Solution**

Wavy Fin Design, Direct Touch Cross Heat-pipe, MOSFET Baseplate, double-sided M.2 Shield Frozr, and Frozr Al software ensure the extreme performance with low temp.



# **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.



## **EZ Debug LED**

Easiest way to troubleshoot.



## **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.



## Frozr Al Cooling

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



# Lightning Gen 5

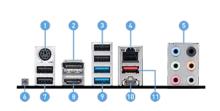
The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.



## **Lightning USB 20G**

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

# CONNECTIONS



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