

MOTHERBOARDS BUSINESS ELEGANCE





SPECIFICATIONS

Model Name	PRO Z690-A
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 DDR5-6400+MHz(OC)
Expansion Slots	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



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.



EZ Debug LED

Frozr AI Cooling

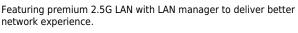
Easiest way to troubleshoot.



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



2.5G Network Solution



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.

Memory Boost

MEMOR: 8005T 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
- 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

