



SPECIFICATIONS

Model Name	PRO Z890-A WIFI
CPU Support	Support Intel® Core™ Ultra Processors (Series 2)
CPU Socket	LGA 1851
Chipset	Intel® Z890 Chipset
Expansion Slots	1x PCIe 5.0 x16 slot 2x PCIe 4.0 x16 slots
Display Interface	2x Thunderbolt™ 4 (Type-C), Support 8K@60Hz as specified in HDMI™ 2.1 FRL - Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR5 - 9200+ MT/s (OC)
Storage	1x M.2 Gen5 x4 128Gbps slot, 3x M.2 Gen4 x4 64Gbps slots, 4x SATA 6Gbps ports
Thunderbolt™ 4	2 x USB Type-C up to 40Gbps, Charging support up to 5V/3A, 15W
USB ports	1x USB 20Gbps (1 Type-C), 4x USB 10Gbps (3 Type-A + 1 Type-C), 6x USB 5Gbps (6 Type-A), 4x USB 2.0
LAN	Realtek® 8126 5G LAN
WiFi / BT	Intel® Wi-Fi 7, Bluetooth 5.4
Audio	8-Channel (7.1) HD Audio with Audio Boost 4

FEATURES



Wi-Fi 7

The latest wireless solution with a new 320MHz channel, achieving a maximum transmission speed of 5.8Gbps, which is 2.4 times faster than Wi-Fi 6/6E.



Dual Thunderbolt™ 4 ports

Thunderbolt™ 4 brings Thunderbolt to USB-C at true 40 Gb/s speeds, 8K display support, Daisy-Chain, Multi-Port Accessory Architecture and USB 4.0 compliant.



5G Network Solution

Featuring premium 5G LAN to deliver better network experience.



EZ M.2 Shield Frozr II

The new tool-less design makes installing or removing your M.2 SSD and Shield Frozr much easier



EZ PCIe Release

A simple press of a button to effortlessly lock or unlock the PCIe slot, simplifying the installation and removal of the graphics card.



Latest DDR5 Memory

A huge step of DDR performance enhancement with the latest DDR5 memory and MSI Memory Boost technology.



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.



Pre-installed I/O Shielding

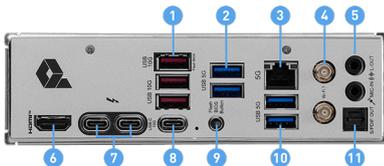
Better EMI protection and more convenience for installation



Frozr AI Cooling

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

CONNECTIONS



- | | |
|-----------------------------------|----------------------|
| 1. USB 10Gbps Type-A | 2. USB 5Gbps Type-A |
| 3. 5G LAN | 4. Wi-Fi / Bluetooth |
| 5. Audio Connectors | 6. HDMI™ |
| 7. Thunderbolt™ 4 40Gbps (Type-C) | 8. USB 10Gbps Type-C |
| 9. Flash BIOS Button | 10. USB 5Gbps Type-A |
| 11. S/PDIF-OUT | |