



SPECIFICATIONS

Model Name	PRO Z890-S WIFI PZ
CPU Support	Support Intel® Core™ Ultra Processors (Series 2)
CPU Socket	LGA 1851
Chipset	Intel® Z890 Chipset
Expansion Slots	1 x PCIe 5.0 x16 slot 2 x PCIe 4.0 x16 slots 1 x PCIe 3.0 x1 slot
Display Interface	1 x Thunderbolt™ 4 (Type-C), Support 4K@60Hz as specified in HDMI™ 2.1, DisplayPort 1.4 – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR5 - 8600+ MT/s
Storage	1 x M.2 Gen5 x4 128Gbps slot, 2 x M.2 Gen4 x4 64Gbps slots, 4 x SATA 6Gbps ports
Thunderbolt™ 4	1 x USB Type-C up to 40Gbps, Charging support up to 5V/3A , 15W
USB ports	2 x USB 20Gbps (2 Type-C), 8 x USB 5Gbps (8 Type-A), 4 x USB 2.0
LAN	Realtek® RTL8125D 2.5G LAN
WiFi / BT	Intel® Wi-Fi 7, Bluetooth 5.4
Audio	8-Channel (7.1) HD Audio with Audio Boost

FEATURES



Back-Connect Design

Move the connectors to the back to provide a cleaner and neater front view and significantly reduces the difficulty of cable management.



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/E.



Thunderbolt™ port

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.



Lightning USB 20G

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



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.



2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.



Extended Heatsink Design

MSI extended PWM 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.



Pre-installed I/O Shielding

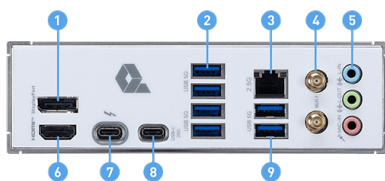
Better EMI protection and more convenience for installation



Froze AI Cooling

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

CONNECTIONS



1. DisplayPort
2. USB 5Gbps Type-A
3. 2.5G LAN
4. Wi-Fi / Antenna
5. Audio Connectors
6. HDMI™
7. Thunderbolt™ 4 40Gbps (Type-C)
8. USB 20Gbps Type-C
9. USB 5Gbps Type-A