



# **SPECIFICATIONS**

Model Name	PRO Z890-S WIFI
CPU Support	Support Intel® Core™ Ultra Processors (Series 2)
CPU Socket	LGA 1851
Chipset	Intel® Z890 Chipset
Expansion Slots	1x PCle 5.0 x16 slot
	2x PCle 4.0 x16 slots
	1x PCle 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 - 8800+ MT/s (OC)
Storage	1x M.2 Gen5 x4 128Gbps slot,
	2x M.2 Gen4 x4 64Gbps slots,
	4x 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 <sup>®</sup> Wi-Fi 7, Bluetooth 5.4
Audio	8-Channel (7.1) HD Audio with Audio Boost

## **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.



## Thunderbolt™ 4 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 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.



# Pre-installed I/O Shielding

Better EMI protection and more convenience for installation



## Frozr Al Cooling

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

## CONNECTIONS



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