



FEATURES

20G

Lightning USB 20G

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

DDR5

Latest DDR5 Memory

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

LIGHTNING

GEN 5

Lightning Gen 5

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

Wi-Fi 6E

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The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.

2.5G

2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.

Ausgeklügeltes Kühlsystem

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Mit optimalem PWM und Schaltkreisen können Prozessoren noch mehr Leistung geben.

M.2 Shield FROZR

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

EZ Antenna

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EZ Antenna makes the process effortless by simply attaching fasteners to the motherboard without rotation.

Pre-installed I/O Shielding

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Better EMI protection and more convenience for installation

Frozr AI Cooling

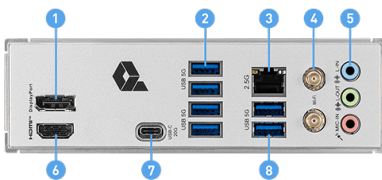
Frozr AI Cooling

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

SPECIFICATIONS

Model Name	PRO Z890-S WIFI6E
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 x4 slots 1x PCIe 3.0 x1 slot
Display Interface	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
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	Wi-Fi 6E module, Bluetooth 5.3
Audio	8-Channel (7.1) HD Audio with Audio Boost

CONNECTIONS



1. DisplayPort
2. USB 5Gbps Type-A
3. 2.5G LAN
4. Wi-Fi / Bluetooth
5. Audio Connectors
6. HDMI™
7. USB 20Gbps Type-C
8. USB 5Gbps Type-A