



SPECIFICATIONS

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|-----------------------------|--|
| Model Name | Z590 PRO WIFI (CEC) |
| CPU Support | Supports 10 th Gen Intel® Core™ Processors, 11 th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors |
| CPU Socket | LGA 1200 socket |
| Chipset | Intel® Z590 Chipset |
| Expansion slots | 1x PCIe 4.0 x16 slot 3x PCIe 3.0 x16 slots |
| Display Interface | Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4 - Requires Processor Graphics |
| Memory Support | 4 DIMMs, Dual Channel DDR4-5333MHz(OC) |
| Storage | 1x M.2 Gen4 x4 slot 1x M.2 Gen3 x4 slot 6x SATA 6Gb/s ports |
| USB ports | 1x USB 3.2 Gen 2x2 20Gbps (Type-C) 2x USB 3.2 Gen 2 10Gbps (1 Type-C + 1 Type-A) 6x USB 3.2 Gen 1 5Gbps(6 Type-A) 8x USB 2.0 |
| LAN | Intel® I225-V 2.5G LAN |
| Wireless / Bluetooth | Intel® Wi-Fi 6E AX210, Bluetooth 5.1 |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost |

FEATURES



Optimum Thermal Solution

Wavy Fin Design, Direct Touch Cross Heat-pipe, MOSFET Baseplate, double-sided M.2 Shield Frozr, and Frozr AI software ensure the extreme performance with low temp.



M.2 Shield FROZR

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



DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.



8+4 Pin power supply

By providing 8+4 pin connectors to ensure adequate power supply to unleash ultimate multi-core CPU performance.



Core Boost

With premium layout and fully digital power design to support more cores and provide better performance.



EZ Debug LED

Easiest way to troubleshoot.



Extended Heatsink Design

MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.



2.5G Network Solution

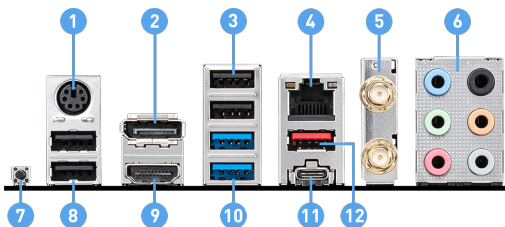
Featuring premium 2.5G LAN to deliver better network experience.



Frozr AI Cooling

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

CONNECTIONS



- | | |
|-----------------------------------|---------------------------------|
| 1. Keyboard / Mouse | 2. DisplayPort |
| 3. USB 2.0 | 4. LAN port |
| 5. WIFI / Bluetooth | 6. Audio connector |
| 7. Flash BIOS Button | 8. USB 2.0 |
| 9. HDMI™ | 10. USB 3.2 Gen 1 5Gbps Type-A |
| 11. USB 3.2 Gen 2x2 20Gbps Type-C | 12. USB 3.2 Gen 2 10Gbps Type-A |