



SPECIFICATIONS

| Model Name | Z590 PRO WIFI |
|--------------------------|--|
| CPU Support | Supports 10 th Gen Intel [®] Core [™] Processors, 11 th Gen Intel [®] |
| | Core [™] Processors, Pentium [®] Gold and Celeron [®] Processors |
| CPU Socket | LGA 1200 |
| Chipset | Intel [®] Z590 Chipset |
| Graphics | 1x PCle 4.0 x16 slot |
| Interface | 1x PCle 3.0 x16 slot |
| 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) |
| Expansion Slots | 2x PCIe 3.0 x1 slots |
| Storage | 1x M.2 Gen4 x4 slot |
| | 2x M.2 Gen3 x4 slots |
| | 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 / | Intel [®] Wi-Fi 6E AX210, Bluetooth 5.2 |
| Bluetooth | |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost |
| | |

FEATURES



Extended Heatsink Design



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

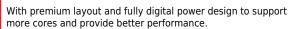
M.2 Shield FROZR



CORE 80051

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

Core Boost



DDR4 Boost



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

2.5G Network Solution



4+8PIN

Featuring premium 2.5G LAN with LAN manager to deliver better network experience.

8+4 Pin power supply

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





Easiest way to troubleshoot.

Frozr AI Cooling

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

CONNECTIONS



| 1. Keyboard / Mouse |
|-------------------------------|
| 3. USB 2.0 |
| 5. WIFI / Bluetooth |
| 7. Flash BIOS Button |
| 9. HDMI |
| 11. USB 3.2 Gen 2x2 20Gbps Ty |
| |

2. DisplayPort 4. LAN port 6. Audio connector 8. USB 2.0 10. USB 3.2 Gen 1 5Gbps Type-A /pe-C 12. USB 3.2 Gen 2 10Gbps Type-A