



## SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| <b>Model Name</b>           | Z590 PRO WIFI  |
| <b>CPU Support</b>          | Supports 10 <sup>th</sup> Gen Intel® Core™ Processors, 11 <sup>th</sup> Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors |
| <b>CPU Socket</b>           | LGA 1200   |
| <b>Chipset</b>              | Intel® Z590 Chipset  |
| <b>Graphics Interface</b>   | 1x PCIe 4.0 x16 slot<br>1x PCIe 3.0 x16 slot   |
| <b>Display Interface</b>    | Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4 – Requires Processor Graphics  |
| <b>Memory Support</b>       | 4 DIMMs, Dual Channel DDR4-5333MHz(OC)   |
| <b>Expansion Slots</b>      | 2x PCIe 3.0 x16 slots  |
| <b>Storage</b>              | 1x M.2 Gen4 x4 slot<br>2x M.2 Gen3 x4 slots<br>6x SATA 6Gb/s ports   |
| <b>USB ports</b>            | 1x USB 3.2 Gen 2x2 20Gbps (Type-C)<br>2x USB 3.2 Gen 2 10Gbps (1 Type-C + 1 Type-A)<br>6x USB 3.2 Gen 1 5Gbps(6 Type-A)<br>8x USB 2.0      |
| <b>LAN</b>                  | Intel® I225-V 2.5G LAN   |
| <b>Wireless / Bluetooth</b> | Intel® Wi-Fi 6E AX210, Bluetooth 5.2   |
| <b>Audio</b>                | 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

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



### 2.5G Network Solution

Featuring premium 2.5G LAN 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.



### Core Boost

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



### DDR4 Boost

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



### EZ Debug LED

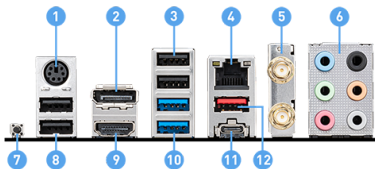
Easiest way to troubleshoot.



### Frozr AI Cooling

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

## CONNECTIONS



- Keyboard / Mouse
- DisplayPort
- USB 2.0
- LAN port
- WiFi / Bluetooth
- Audio connector
- Flash BIOS Button
- USB 2.0
- HDMI™
- USB 3.2 Gen 1 5Gbps Type-A
- USB 3.2 Gen 2x2 20Gbps Type-C
- USB 3.2 Gen 2 10Gbps Type-A