

SPECIFICATIONS

| | |
|---------------------------|--|
| Model Name | Z590-A PRO |
| 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 Interface | 1x PCIe 4.0 x16 slot 1x PCIe 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 |
| 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.



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

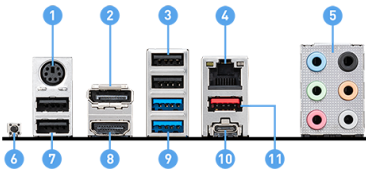
Detect CPU & GPU temperatures and automatically adjust system fan duty to a proper value.



M.2 Shield FROZR

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

CONNECTIONS



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