

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.



Core Boost

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



M.2 Shield FROZR

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



8+4 Pin power supply

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



2.5G Network Solution

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



EZ Debug LED

Easiest way to troubleshoot.



Froze AI Cooling

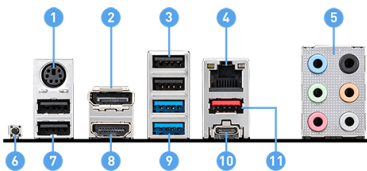
Detect CPU & GPU temperatures and automatically adjust system fan duty to a proper value.



DDR4 Boost

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

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