



## SPECIFICATIONS

<b>Model Name</b>	Z590M PRO
<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 socket
<b>Chipset</b>	Intel® Z590 Chipset
<b>Graphics Interface</b>	1x PCIe 4.0 x16 slot
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4, VGA - Requires Processor Graphics
<b>Memory Support</b>	2 DIMMs, Dual Channel DDR4-5333MHz (OC)
<b>Expansion Slots</b>	2x PCIe 3.0 x1 slots
<b>Storage</b>	1x M.2 Gen4 x4 64Gb/s slot 1x M.2 Gen3 x4 32Gb/s slot 6x SATA 6Gb/s ports
<b>USB ports</b>	2x USB3.2 Gen 2 10Gbps (2 Type-A) 4x USB 3.2 Gen 1 5Gbps (4 Type-A) 6x USB 2.0
<b>LAN</b>	Realtek® 8125B 2.5G LAN
<b>Audio</b>	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.



### Lightning Gen4 Solution

The latest Gen4 PCI-E and M.2 solution with up to 64GB/s bandwidth for maximum transfer speed.



### 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.



### 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.



### 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.



### Audio Boost

Reward your ears with studio grade sound quality for the most immersive audio experience.

## CONNECTIONS



- |                               |                                |
|-------------------------------|--------------------------------|
| 1. Keyboard / Mouse           | 2. VGA                         |
| 3. DisplayPort                | 4. USB 3.2 Gen 2 10Gbps Type-A |
| 5. LAN port                   | 6. Audio connectors            |
| 7. USB 2.0                    | 8. HDMI™                       |
| 9. USB 3.2 Gen 1 5Gbps Type-A |                                |