



## SPECIFICATIONS

<b>Model Name</b>	MEG Z590 ACE
<b>CPU Support</b>	Supports 10th Gen Intel® Core™ Processors, 11th 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>	2x PCIe 4.0 x16 slots, 1x PCIe 3.0 x16 slot Support 2-way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology
<b>Display Interface</b>	Support 4K@60Hz as specified in HDMI™ 2.0b - Requires Processor Graphics, 2x Thunderbolt™ 4 (Type-C), Input from mini DisplayPort
<b>Memory Support</b>	4 DIMMs, Dual Channel DDR4-5600MHz(OC)
<b>Storage</b>	1x M.2 Gen4 x4 64Gb/s slot, 3x M.2 Gen3 x4 32Gb/s slots, supports Intel® Optane™ Technology 6x SATA 6Gb/s ports
<b>Thunderbolt™ 4</b>	2x USB Type-C up to 40G, Charging support up to 5V/3A, 15W, 2x Mini DisplayPort input ports
<b>USB ports</b>	3x USB 3.2 Gen 2 10Gbps (2 Type-A + 1 Type-C) 6x USB 3.2 Gen 1 5Gbps (6 Type-A) 6x USB 2.0
<b>LAN</b>	Intel® I225-V 2.5G LAN
<b>WiFi / BT</b>	Intel® Wi-Fi 6E AX210, Bluetooth 5.2
<b>Audio</b>	8-Channel (7.1) HD Audio with Audio Boost 5 HD

## FEATURES



### Extreme Power Design

INTERSIL digital PWM, 16+2+1 phases with 90A SPS, Mirrored Power Arrangement and dual CPU power connectors to unleash the maximum performance.



### Quadruple M.2 Connectors

Onboard quadruple M.2 connectors for the maximum storage performance with one Lightning Gen 4 solution.



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### Outstanding Cooling Solution

Aluminum Cover design, VRM Heat-pipe, 7W/mK thermal pads, M.2 Shield Frozr and Aluminum Backplate ensure the extreme performance with low temp.



### Mystic Light RGB LED

Personalize your PC with 16.8 million colors / 29 effects, controlled in one click!



### Outstanding Cooling Solution

Aluminum Cover design, VRM Heat-pipe, 7W/mK thermal pads, M.2 Shield Frozr and MOSFET Baseplate to ensure the extreme performance with low temp.



### Wi-Fi 6E

The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.



### Audio Boost 5 HD

Ultimate audio solution with premium audio processor combining ESS audio DAC and amplifier deliver the breathtaking experience.



### 2.5G LAN

Onboard 2.5G LAN with LAN manager, delivering the best online gaming experience.



### Smart Button

Reset Computer, Safe Boot, Turbo Fan and EZ LED control functions with just one click.



### Dual Thunderbolt™ 4 ports

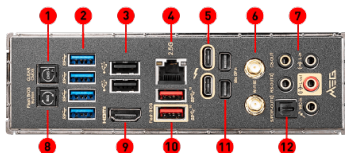
Thunderbolt™ 4 brings Thunderbolt to USB-C at true 40 Gb/s speeds, 8K display support, Daisy-Chaining, Multi-Port Accessory Architecture and USB 4.0 compliant.



### 8 Layer PCB with 2oz Thickened Copper

An Enhanced PCB design provides higher performance and long-lasting system stability without any compromise.

## CONNECTIONS



1. Clear CMOS Button
2. USB 3.2 Gen1 5Gbps (Type-A)
3. USB 2.0
4. 2.5G LAN
5. Thunderbolt 4 40Gbps (Type-C)
6. Wi-Fi / Bluetooth
7. HD Audio Connectors
8. Flash BIOS Button
9. HDMI™
10. USB 3.2 Gen2 10Gbps (Type-A)
11. Mini DisplayPort Input (for Thunderbolt passthrough)
12. Optical S/PDIF-Out