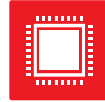## SPECIFICATIONS

Model Name	MEG Z790 ACE
CPU Support	Supports 12th/ 13th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1700
Chipset	Intel® Z790 Chipset
Expansion Slots	2x PCIe 5.0 x16 slots 1x PCIe 4.0 x16 slot
Display Interface	1x Type-C Display port – Requires Processor Graphics 2x Thunderbolt™ 4 (Type-C), Input from mini DisplayPort
Thunderbolt™ 4	2x USB Type-C up to 40G, Charging support up to 5V/3A, 15W 2x Mini DisplayPort input ports
Memory Support	4 DIMMs, Dual Channel DDR5 7800+MHz (OC)
Storage	1x M.2 Gen 5 x4 128Gbps slot 4x M.2 Gen 4 x4 64Gbps slots 6x SATA 6Gbps ports
USB ports	2x USB 3.2 Gen 2x2 20Gbps (2 Type-C) 8x USB 3.2 Gen 2 10Gbps (7 Type-A + 1 Type-C) 4x USB 3.2 Gen 1 5Gbps (4 Type-A) 4x USB 2.0
LAN	2x Intel® 2.5Gbps LAN
WiFi / BT	Intel® Wi-Fi 6E, Bluetooth 5.3
Audio	8-Channel (7.1) HD Audio with Audio Boost 5 HD

FEATURES

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.

24+1+2 Phases Power Design

The ultimate power solution with DRPS and 105A Smart Power Stage unleashes the maximum CPU performance.

Premium Thermal Solution

Stacked Fin Array, Direct Touch Cross Heat-pipe, Aluminum Backplate, double-sided M.2 Shield Frozr, and Frozr AI software ensure the extreme performance with low temperature.

Lightning Gen 5

The latest PCIe 5.0 solution with up to 128GB/s bandwidth for maximum transfer speed.

Latest DDR5 Memory

A huge step of DDR performance enhancement with the latest DDR5 memory and MSI Memory Boost technology.

Quintuple M.2 Connectors

Onboard 5x M.2 connectors with one Lightning Gen 5 solution for the maximum storage performance.

Magnetic and Screwless M.2 Shield Frozr

The patented design enables true "wire-less" RGB function, while the screwless design provides the easiest way for M.2 installation.

Dual 2.5G LAN

Onboard dual 2.5Gbps LAN provides incredible data transfer speed faster than general Gigabit LAN, delivering the best online gaming experience.

Wi-Fi 6E

The latest wireless solution supports 6GHz spectrum, MU-MIMO and BSS color technology, delivering speeds up to 2400Mbps.
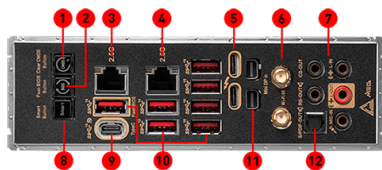
Audio Boost 5 HD

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

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. Flash BIOS Button
3. 2.5G LAN
4. 2.5G LAN
5. Thunderbolt 4 40Gbps (Type-C)
6. Wi-Fi / Bluetooth
7. HD Audio Connectors
8. Smart Button
9. USB 3.2 Gen 2 10Gbps (Type-C Display port)
10. USB 3.2 Gen 2 10Gbps (Type-A)
11. Mini DisplayPort Input (for Thunderbolt passthrough)
12. Optical S/PDIF-Out