EVGA

Z790 CLASSIFIED

Part No:121-RL-E798-KR

The EVGA Z790 CLASSIFIED remains the best choice for the motherboard that does everything with a 19-phase VRM and 12-layer PCB to provide exceptional power, performance, and stability. The CLASSIFIED supports PCIe Gen5 and PCIe Gen4 M.2 NVMe SSDs on the latest 13th Gen Intel® Core™ Series processors, up to 128GB DDR5 and up to 7800MHz+(OC) DDR5*. The CLASSIFIED now features a rotated socket to reduce memory latency and improve cable management options. Meanwhile, the board also contains 10GbE and 2.5GbE network ports, Wi-Fi 6E / BT 5.2, and two USB4 Type-C ports (supports DP 1.4 + HDR). The Z790 CLASSIFIED is the perfect motherboard to help you set records in whatever you do.

* Achievable speeds may vary depending on memory configuration and CPU memory controller.

DESIGN DETAILS

Supported CPUs –
13th / 12th Gen Intel® Core™ Series Desktop Processors

Socket Type - Intel® LGA Socket 1700
Chipset - Intel® Z790
PCIe Slots - 2x PCIe 5.0 x16 (x16/x8, x8), 1x PCIe 4.0 x4 (via PCH)
Memory DIMMs - 4 DIMMs Dual-Channel
Memory Type - DDR5 7800MHz+ (OC)
Memory Capacity - 128GB

SATA 6 Gb/s Ports/Controller - 8x from Intel® Z790
RAID Support - RAID 0, 1, 5, 10

M.2 Key-M Sockets - 3x 80mm PCIe 4.0 (Up to 64Gb/s)
M.2 Key-E Sockets - 1x 32mm

Internal USB Ports/Headers –
1x USB 2.0 Port (for BIOS update), 1x USB 2.0 Header,
1x USB 3.2 Gen1 Header,
1x USB 3.2 Gen2 Type-C Header
Rear I/O USB Ports
6x USB 3.2 Gen2 Type-A
2x USB4 Type-C

Network Speed - 10/100/1000/2500/5000/10000 Mb/s
Network Controller –
1x Marvell® 10 Gigabit NIC
1x Intel® i226-V 2.5 Gigabit NIC

Wi-Fi/BT –
Intel® Dual-Band Wi-Fi 6E / BT5.2 module, preinstalled in the M.2 Key-E 32mm Slot

Audio - 7.1 Channel Realtek ALC1220
Display Output - DP 1.4 + HDR (via USB4 Type-C)
Fan Headers - 2x CPU PWM, 4x PWM/DC, 2x PUMP Headers
ARGB Headers - 4x ARGB Headers

BIOS Type –
Latest UEFI BIOS with mouse/keyboard control, OC Robot, In-BIOS Stress Test

Software - EVGA ELEET™ X1 Tuning Utility

KEY SPECS

19-Phase Power Design
Intel® 10GbE/2.5GbE NICs
DDR5 7800Mhz+(OC) DIMM Support
Twin VRM Cooling Fans
Right-Angle Power Connectors
PCIe Gen 5.0 x16 Slots and Gen 4.0 M.2 Slots
EVGA Wi-Fi/BT Antenna
12-Layer PCB
ELEET X1™ TUNING UTILITY

DIMENSIONS

Width: 10.9in - 277mm
Length: 12in - 305mm
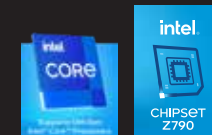Form Factor: E-ATX Form Factor

ACCESSORIES

Quick Installation Guide
SATA 6Gb/s Data Cables
EVGA Wi-Fi Antenna
Probelt Cable
Case Badge
USB Flash Drive
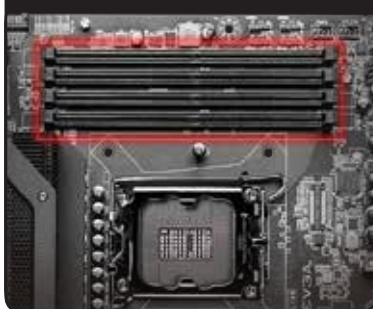+ Contains Drivers and Manual

19-PHASE POWER DESIGN
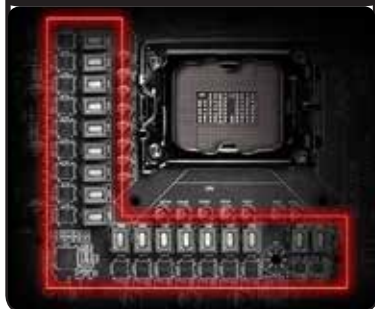
INTEL® 10GbE/2.5GbE NICs

DDR5 8000MHZ+(OC) DIMM SUPPORT

2X USB4 TYPE-C w/ DP1.4 + HDR SUPPORT

RIGHT-ANGLE POWER CONNECTORS

PCIE GEN 5.0 X16 SLOTS & GEN 4.0 M.2 SLOTS

TWIN VRM COOLING FANS

12-LAYER PCB

ELEET X1™ TUNING UTILITY