

EVGA Z790 DARK K|NGP|N

Part No:121-RL-E799-KR

INTRODUCTION



The EVGA Z790 DARK K|NGP|N rises once again. Built on a 14-layer low-loss PCB with a 21-phase VRM – this board will squeeze everything out of 13th Gen Intel® Core™ processors. This board supports up to 64GB DDR5 and up to 8000MHz+(OC)*, PCIe Gen5, and PCIe Gen4 M.2 NVMe support. The Z790 DARK K|NGP|N auto-switches the x16 PCIe Gen 5 CPU lanes between slots 1 and 2 to give your PCIe device maximum bandwidth no matter where it's installed**. This board also includes 10Gbps and 2.5Gbps NICs + Wi-Fi 6E / BT 5.2, 7.1 HD audio, 3x M.2 Key-M slots, and 2x pump headers for CPU AIO. The Z790 DARK K|NGP|N remains the choice of those that want a board capable of unbelievable performance.

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

** x16 lane support if only one PCIe slot (PE1/PE2) is populated. x8/x8 lanes if both PE1 and PE2 are populated.

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), 1x PCIe 4.0 x4 (via PCH)

Memory DIMMs - 2 DIMMs Dual-Channel

Memory Type - DDR5 8000MHz+ (OC)

Memory Capacity - 64GB

SATA 6 Gb/s Ports/Controller - 6x from Intel® Z790

RAID Support - RAID 0, 1, 5, 10

SATA 6 Gb/s Ports/Controller - 2x ASMedia ASM1061

M.2 Key-M Sockets - 3x 110mm 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), 2x USB 2.0 Headers,

1x USB 3.2 Gen1 Header,

1x USB 3.2 Gen2 Type-C Header

Rear I/O USB Ports

2x USB 3.2 Gen1 Type-A

5x USB 3.2 Gen2 Type-A

1x USB 3.2 Gen2x2 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

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

21-Phase Power Design
Intel® 10GbE/2.5GbE NICs
DDR5 8000MHz+(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
14-Layer PCB
ELEET X1™ TUNING UTILITY

DIMENSIONS

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

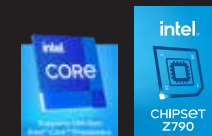
ACCESSORIES

Quick Installation Guide
SATA 6Gb/s Data Cables
EVGA Wi-Fi Antenna
Probelt Cable
Case Badge
M.2 Screw Kit
USB Flash Drive + Contains Drivers and Manual
Benchstand with Visual Aids + Screws and standoffs



PRODUCT WARRANTY

This product is covered under EVGA's 3 year limited warranty which covers parts and labor. For more details please visit: www.evga.com/warranty





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FEATURES

21-PHASE POWER DESIGN



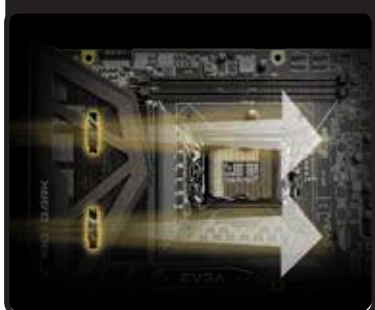
INTEL® 2.5GbE / 10GbE NICs



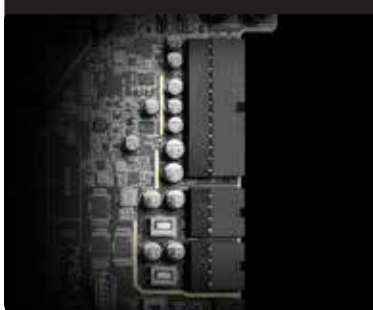
DDR5 8000MHZ+(OC) DIMM SUPPORT



TWIN VRM COOLING FANS



RIGHT-ANGLE POWER CONNECTORS



PCIe GEN 5.0 X16 SLOTS
& GEN 4.0 M.2 SLOTS**



EVGA WI-FI/BT ANTENNA



14-LAYER PCB



ELEET X1™ TUNING UTILITY



** x16 lane support if only one x16 PCIe slot (PE1/PE2) is populated for a more flexible overclocking setup.



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