Part No: 131-CL-E499-KR

INTRODUCTION



The EVGA Z490 DARK sets the standard for motherboards based on the Intel® Z490 chipset. Designed for ultra-enthusiasts looking to pull every last ounce of performance from the new 10th Gen Intel® 10-Core CPUs, the Z490 DARK features an 18-Phase VRM design, along with two right-angle 8pin High Current connectors to provide maximum power for overclocking. Two SMT DIMMs enable high-frequency and low latency RAM overclocking. The 10-layer PCB is studded with multiple sensors to track a variety of temperatures and voltages across the board, which can be displayed on the dual-LED displays. The Z490 DARK also contains one Intel® 2.5 GbE NIC, one Intel® Gigabit NIC, a mini-Display Port, PCIe disable switches, triple BIOS support, 8 smart fan headers, and many more premium features. Lastly, a motherboard is only as good as its BIOS, and the EVGA Z490 DARK features EVGA's newest UEFI/BIOS GUI with a focus on overclocking and functionality in a lean, straightforward package.

DESIGN DETAILS

Supported CPUs - Intel® Socket 1200, 10th Generation Intel® Core i9/i7/i5 Processors

Socket Type - Intel® Socket LGA1200 PCH - Intel® Z490

DIMM QTY - 2 DIMM Dual-Channel Memory Type - DDR4 4800MHz+ **Memory Capacity - 64GB**

SATA 6.0Gb/s Ports/Controller - 6/Intel® Z490 PCH **RAID Support - RAID 0, 1, 5, and 10** SATA 6.0Gb/s Ports/Controller - 2/ASMedia ASM1061

USB 2.0 Ports/Controller - 7 Ports (6 from internal headers / 1 from Update Port for flashing BIOS)/Intel® Z490 USB Hub USB 3.2 Gen1 Ports/Controller - 4 (2 from internal header) / Intel® Z490 PCH USB 3.2 Gen2 Ports/Controller - 5x USB3.2 Gen2

Type-A/1x USB3.2 Gen2 Type-C (external)/ 1x USB3.2 Gen2 Type-C (internal header)

Audio - 7.1 Channel Realtek + EVGA NU Audio Audio Controller - Realtek ALC1220 + SV3H615 Display Output - mini-DisplayPort

PCIe Slot Arrangement - 3x16, 1x4 PCle x16 Mechanical Slots - 3 PCIe x16 Mechanical Arrangement -1x16/8, 1x8/4, 1x4

PCIe x4 Mechanical Slots - 1

U.2 - 1x U.2 Port

M.2 Key-M - 2x 110mm (Up to 32Gbps) **M.2 Kev-E -** 1x 32mm (Vertical)

Fan Headers - 8x 4-Pin (2x CPU PWM. 6x PWM/DC)

BIOS Type - Latest UEFI BIOS with mouse/ keyboard control, OC Robot, In-BIOS Stress Test Software - EVGA ELEET X1 Tuning Utility

KEY SPECS

- Supports Intel® Core™ 10th Generation Processor Family for LGA1200 socket
- 150% Increased Gold Content
- Intel® Z490 Chipset
- NVIDIA® SLI® Ready Enthusiast Layout
- 2 DIMM Dual-Channel up to 64GB 4800MHz+
- PCI Express® 3.0 Ready
- 7 USB 2.0 Ports (6 from internal headers/ 1 from Update Port)
- 4 USB 3.2 Gen1 Ports (2 rear panel, 2 from 1 internal header)
- 7 USB 3.2 Gen2 Ports (5 Type-A rear panel, 1 Type-C rear panel, 1 Type-C Header)
- •1 PS/2 (Mouse+Keyboard support)
- Intel® Optane Support
- 8 SATA 6.0Gb/s (6 on Intel® Z490 PCH/ 2 from ASMedia ASM1061)
- •1 U.2 Port
- 2 M.2 Key-M 110mm up to 32Gbps
- •1 M.2 Key-E 32mm
- 1 Mini-DisplayPort
- •1 Intel® i225V Gigabit NIC (10/100/1000/2500)
- •1 Intel® i219V Gigabit NIC (10/100/1000)
- 1 Intel® AX201 WiFi 6/BT 5.1 module, preinstalled

DIMENSIONS

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

ACCESSORIES

- EVGA Quick Installation Guide
- Rear Case I/O Panel
- 2 SATA 6G Data Cables
- 2x M.2 Thermal Pad
- 2x Antenna for WiFi
- Benchstand + Screws/Standoffs
- 2x Probelt Connectors
- Flexible SLI® Bridge
- · Case Badge
- USB Flash Drive
- + Contains Driver and Manual









Network Speed - 10/100/1000/2500 + 10/100/1000 Network Ports/Controller - Intel i225V PHY + Intel® i219V PHY

WiFi/BT - WiFi/BT - Intel® AX201 WiFi 6 /BT 5.1 module,





























