



The EVGA Z490 DARK K|NGP|N Edition 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 K|NGP|N 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 K|NGP|N 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 K|NGP|N 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 5000MHz+
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)

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, preinstalled in the M.2 Key-E 32mm Slot

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

PCIe Slot Arrangement - 3x16, 1x4
PCIe 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 Key-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 5000MHz+
- 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 Probelts Connectors
- Flexible SLI® Bridge
- Case Badge
- USB Flash Drive
- + Contains Driver and Manual



PRODUCT WARRANTY

This product is covered under EVGA's 3 year limited warranty which covers parts and labor. Further warranty extension is available upon registration within 30 days of purchase. For more details please visit: www.evga.com/warranty





Z490 DARK K|NGP|N Edition

Part No:131-CL-E499-KP INTRODUCTION

FULL UEFI GUI BIOS INTERFACE
Focused on functionality



ELEET X1 TUNING UTILITY
Adjust your overclocking in OS



10 LAYER PCB
Improved overclock stability and PCB cooling



18 PHASE PWM
Cleanest variable power switching



EXCLUSIVE
Z490 DARK KINGPIN Edition
box signed by KINGPIN himself!



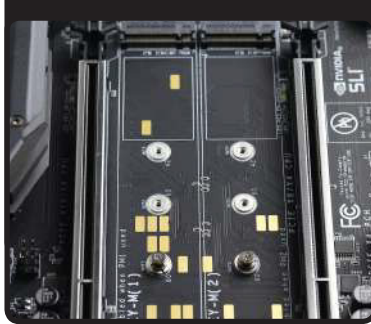
HIGHER GOLD CONTENT (150%)
Lower contact resistance,
better power delivery



USB3.2 Gen2 + Intel® 2.5GbE NIC
Integrated WiFi 6/BT 5.1
Mini-DisplayPort



Intel® Optane™ Memory Ready



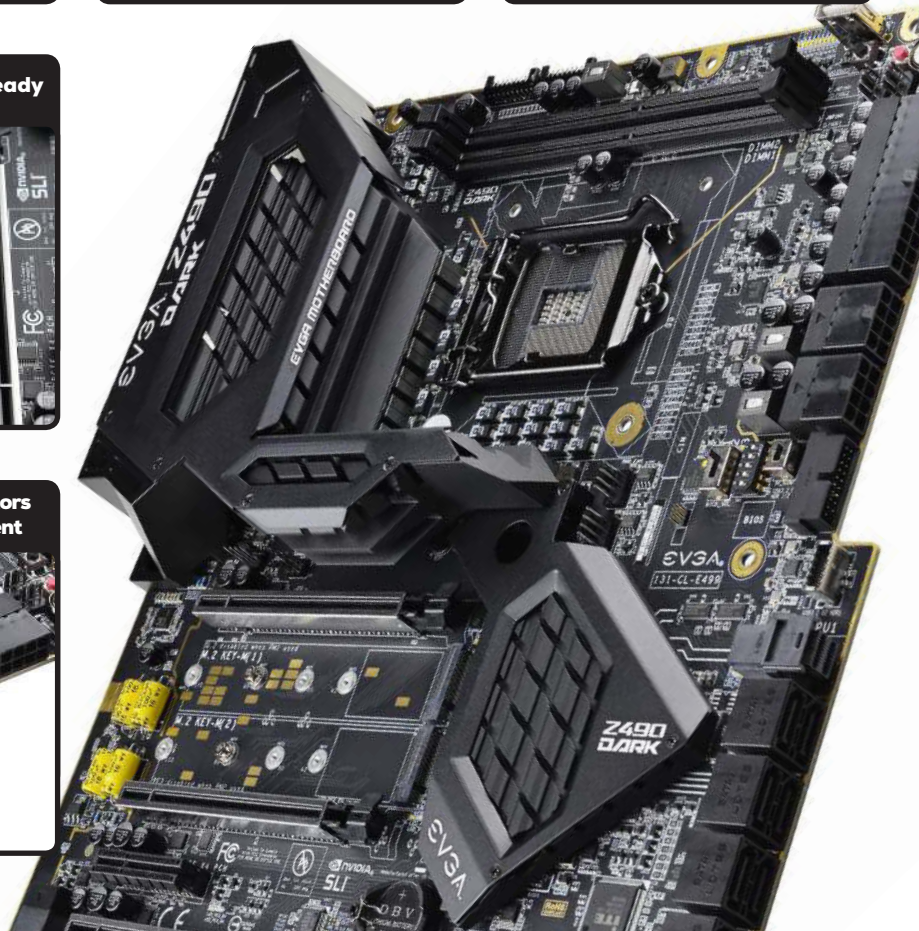
ONBOARD POWER / RESET
Dual Voltage/CPU
Temperature Monitors



**NVIDIA® SLI® Ready
with Reinforced PCIe Slots**



**Right-Angled Power Connectors
to Simplify Cable Management**



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