



The EVGA Z390 DARK sets the standard for motherboards based on the Intel® Z390 chipset. The Z390 DARK is designed for ultra-enthusiasts looking to pull every last ounce of performance from the new 9th Gen Intel® 8-Core CPUs. The Z390 DARK features a 17 Phase VRM design, along with two right-angle 8pin 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, which can be displayed on the dual-LED displays. The Z390 DARK contains Creative Audio with EVGA NU Audio, two Intel® Gigabit NICs, mini-Display Port, onboard power/reset/CMOS buttons, PCIe disable switches, triple BIOS support, and 8 smart fan headers. Lastly, a motherboard is only as good as its BIOS, and the EVGA Z390 DARK features EVGA's newest UEFI/BIOS GUI focusing on overclocking and functionality with brand-new features such as OC Robot and EVGA-only In-BIOS Stress Testing.

DESIGN DETAILS

Supported CPUs - Intel® Socket 1151, 8th/9th Generation Intel Core i9/i7/i5/i3 Coffee Lake-S Processors

Socket Type - Intel® Socket LGA1151

PCH - Intel® Z390

DIMM QTY - 2 DIMM Dual-Channel

Memory Type - DDR4 4600MHz+

Memory Capacity - 32GB

SATA 6.0Gb/s Ports/Controller - 6 / Intel® Z390 PCH

SATA 6.0Gb/s Ports/Controller - 2 / ASMedia ASM1061

RAID Support - RAID 0, 1, 5, and 10

USB 2.0 Ports/Controller -

4 Ports (4 from internal header) / Intel® Z390 PCH

USB 3.1 Gen1 Ports/Controller -

4 (2 from internal header) / Intel® Z390 PCH

USB 3.1 Gen2 Ports/Controller - 5x USB3.1 Gen2 Type-A

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

Network Speed - 10/100/1000

Network Ports/Controller - Intel® i210AT

MAC+PHY/ i219V PHY

WiFi/BT - Intel® Wireless-AC 9560

Audio - 5.1 Channel Creative Analog/Optical + EVGA NU Audio

Audio Controller - Creative Core3D CA0132 + SV3H615

Display Output - mini-DP 1.2

PCIe Slot Arrangement - 3x16, 1x4

PCIe x16 Mechanical Slots - 3

PCIe x16 Mechanical Arrangement - 1x16/8, 1x8/4, 1x4

PCIe x4 Mechanical Slots - 1

M.2 Key-M - 2x 110mm (Up to 32Gbps)

M.2 Key-E - 1x 32mm (Vertical)

U.2 - 1x U.2

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 E-LEET X Tuning Utility

KEY SPECS

- Supports Intel® Core™ 8th/9th Generation Processor Family for LGA1151 socket
- 150% Increased Gold Content
- Intel® Z390 Chipset
- Enthusiast Layout Supporting 2-Way SLI®
- 2 DIMM Dual-Channel up to 32GB 4600MHz+
- PCI Express® 3.0 Ready
- 4 USB 2.0 Ports (4 from internal headers)
- 4 USB 3.1 Gen1 Ports (2 rear panel, 2 from 1 internal headers)
- 7 USB 3.1 Gen2 Ports (5x Type-A, 1x Type-C, 1x Type-C Header)
- Intel® Optane Support
- 8 SATA 6.0Gb/s (6 on Intel® Z390 PCH / 2 from ASMedia ASM1061)
- 2 M.2 Key-M 110mm up to 32Gbps
- 1 M.2 Key-E 32mm
- 1 U.2 Port
- 1 Intel® i219V Gigabit NIC (10/100/1000)
- 1 Intel® i210AT Gigabit NIC (10/100/1000)
- 1 Intel® Wireless-AC 9560 Dual-Band WiFi/BT
- E-ATX Form Factor

DIMENSIONS

- Width: 10.895in - 276.7mm
- Length: 12in - 304.8mm
- Form Factor: E-ATX Form Factor

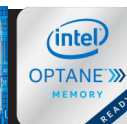
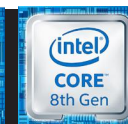
ACCESSORIES

- EVGA Quick Installation Guide
- Rear Case I/O Panel
- 2 SATA 6G Data Cables
- 2x M.2 Thermal Pad
- 2-Way SLI Bridge
- Benchstand + Screws/Standoffs
- 2x Probelts Connectors
- 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.

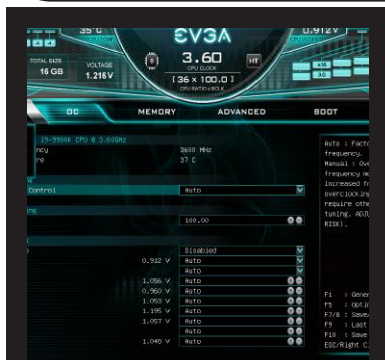




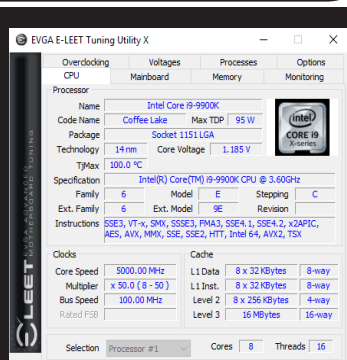
Z390 DARK

Part No: **131-CS-E399-KR**

FEATURES



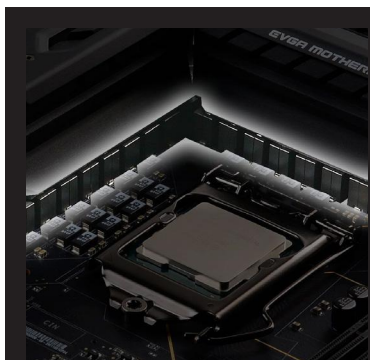
FULL UEFI BIOS INTERFACE
Focused on Functionality



E-LEET TUNING UTILITY
Adjust your overclocking in OS



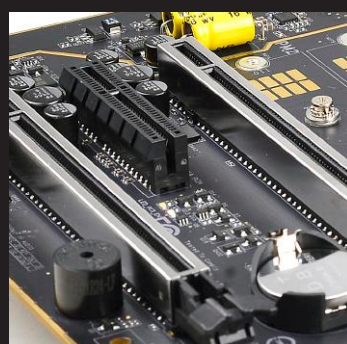
10 LAYER PCB
Improved overclock stability and PCB cooling



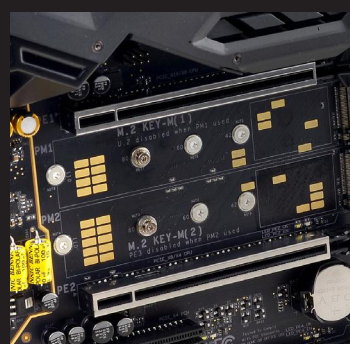
17 PHASE PWM
Cleanest variable power switching



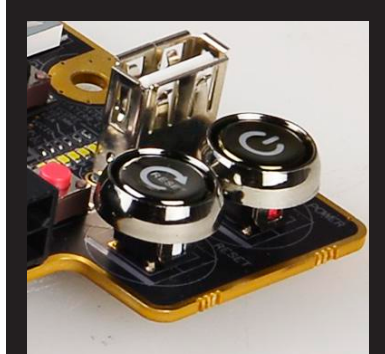
HIGHER GOLD CONTENT (150%)
Lower contact resistance, better power delivery!



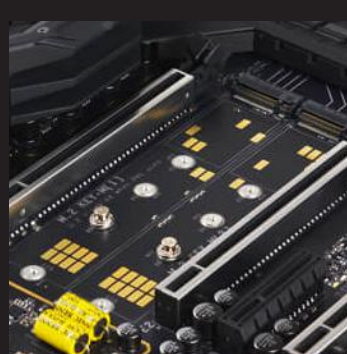
REINFORCED PCIe SLOTS
Reinforced for the heaviest of graphics cards



M.2 SLOT
Next generation SSD form factor



ONBOARD POWER / RESET
CMOS reset buttons at your fingertips



2-WAY SLI READY
Able to handle the most demanding games



PASSIVE CHIPSET HEATSINK
No fans, lower noise, longer lifespan



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