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 ProbeIt Connectors
- Case Badge
- USB Flash Drive
+ Contains Driver and Manual

FULL UEFI BIOS INTERFACE
Focused on Functionality

E-LEET TUNING UTILITY
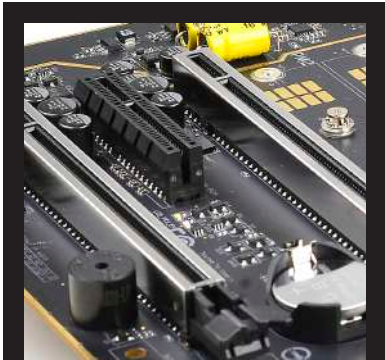Adjust your overclocking in OS

10 LAYER PCB
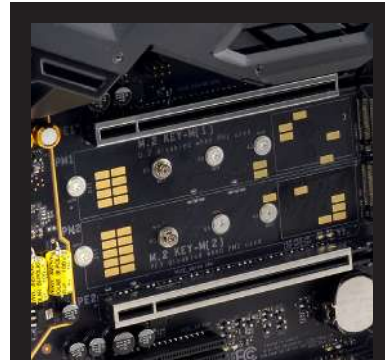Improved overclock stability and PCB cooling

17 PHASE PWM
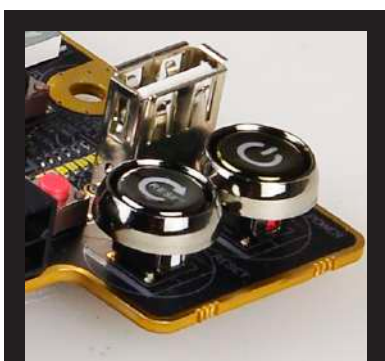Cleanest variable power switching

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

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.

SUPPORTS intel CORE 9th Gen | intel CORE 8th Gen | intel OPTANE MEMORY READY | NVIDIA SLI | Sound CORE3D