

EVGA Z590 DARK

Part No: 121-RL-E599-KR

INTRODUCTION



The EVGA Z590 DARK fully unleashes the power of 11th Gen Intel® Core™ processors, which now support PCIe Gen4 graphics cards and NVMe SSDs. This armed and fully operational motherboard is born from a 10-layer PCB and powered by a 21-Phase VRM tailor-made for bleeding-edge performance with 5333MHz+ (OC) memory support. With a 100% copper heatsink and two built-in fans that enhance heat dissipation for the VRM, CPU, and memory, you can bring it in warm, or you can bring it in cold. For everyone else, the DARK is loaded with three M.2 Key-M slots, HDMI 2.0 and DP 1.4a, eight SATA ports, 7.1 Channel HD Audio, ARGB/RGB headers, and two 3A pump fan headers. Two 2.5Gbps NICs are paired with a new exclusive antenna to boost your Wi-Fi 6/BT 5.2 performance. Enhanced with EVGA Eleet X1™ for overclocking and customization, the Z590 DARK will ensure that you don't leave your fate to chance.

DESIGN DETAILS

Supported CPUs -

Intel® Socket 1200, 11th/10th Generation Intel® Core™ i9/i7/i5 Processors

Socket Type - Intel® Socket LGA1200

PCH - Intel® Z590

PCIe Slots - 2x PCIe 4.0 x16 (x16, x8/8), 1x PCIe x4

Memory DIMMs - 2 DIMMs Dual-Channel

Memory Type - DDR4 5333MHz+(OC)

Memory Capacity - 64GB

SATA 6 Gb/s Ports/Controller - 6 from Intel® Z590

RAID Support - RAID 0, 1, 5, 10

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

M.2 Key-M Sockets - 1x 110mm PCIe 4.0 (Up to 64Gb/s), 2x 110mm PCIe 3.0 (Up to 32Gb/s)

M.2 Key-E Sockets - 32mm

U.2 - 1x U.2 SSD Connector

USB 2.0 Ports - 7 Ports (3 Headers, 1 Update Port for Flashing BIOS)

USB 3.2 Gen 1 Ports - 4 Ports (1 Header)

USB 3.2 Gen 2 Ports -

4x Type-A Ports, 1x Type-C Header, 1x Gen2x2 Type-C Port

Network Speed - 10/100/1000/2.5Gbps

Network Controller - 2x Intel® I225V Gigabit NICs

Wi-Fi/BT -

Intel® AX201 Wi-Fi 6/BT 5.2 Module, preinstalled in the M.2 Key-E 32mm Slot

Audio - 7.1 Channel Realtek 1220, EVGA NU Audio

Display Output - DP 1.4, HDMI 2.0

Fan Headers - 2x CPU PWM, 4x PWM/DC, 2x PUMP Headers

RGB Headers - 2x RGB Headers, 2x 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 Digital VRM
100% Copper Heatsink with Twin Fans
Preinstalled Rear I/O Cover
EVGA Wi-Fi Antenna
150% Increased Socket Gold Content
PCI Express 4.0 Ready
NVIDIA® SLI® Ready Enthusiast Layout
Supports NVIDIA®Resizable BAR
Metal Reinforced PCIe slots
Intel® Optane™ Memory Ready

DIMENSIONS

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

ACCESSORIES

EVGA Quick Installation Guide
SATA 6Gb/s Data Cables
M.2 Thermal Pads
EVGA Wi-Fi Antenna
Probelit Cable
Baseplate
Baseplate Screws and Standoffs
Case Badge
M.2 Screw Kit
USB Flash Drive
+ Contains Drivers 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 90 days of purchase. For more details please visit: www.evga.com/warranty



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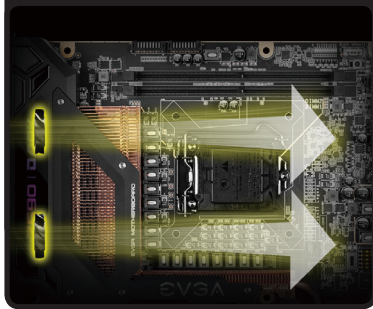
Part No: 121-RL-E599-KR

FEATURES

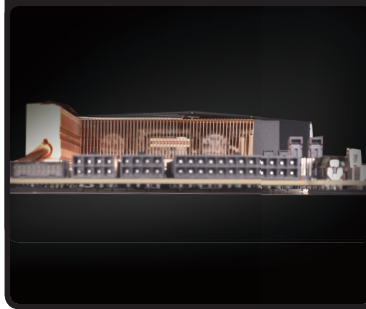
21 Phase PWM



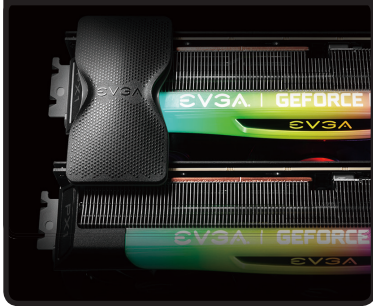
100% Copper Heatsink with Twin Fans



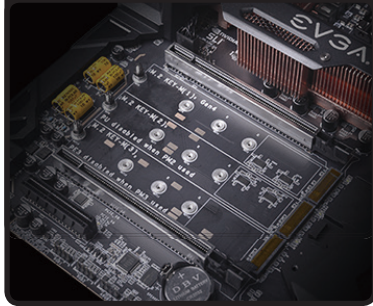
Right Angle Power Connectors



NVIDIA® SLI® Ready with Reinforced PCIe Slots



PCIe Gen4 M.2 NVMe Support



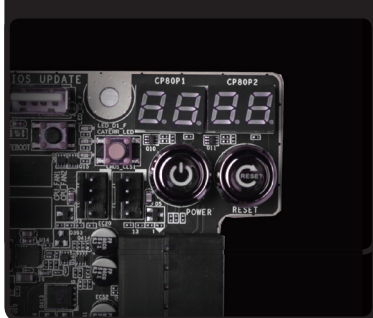
Dual Intel 2.5GbE NICs



EVGA Wi-Fi Antenna



Multi-Function POST Indicators



ELEET X1™ Tuning Utility



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