



Z590 FTW WIFI

Part No: 121-RL-E597-KR

INTRODUCTION



The EVGA Z590 FTW WIFI is what you've been waiting for to bring out the best of the 11th Gen Intel® Core™ i9 processors, which now feature support for PCIe Gen4 graphics cards and NVMe SSDs. This motherboard redefines what it means to be For The Win with a completely updated aesthetic; a rededication to maximizing the features on an ATX form factor; and an unrelenting desire to give enthusiasts all the power, performance, and stability they can handle with a 17-Phase VRM and 8-layer PCB. In addition to blazing fast 5100MHz+ memory support, WiFi 6/BT 5.2, DisplayPort 1.4 and HDMI 2.0, and an excessive number of USB options, the EVGA Z590 FTW WIFI also features multiple ARGB headers to customize your system lighting, a gigabit NIC, and 7.1 Channel HD Audio. The EVGA Z590 FTW WIFI is truly the next generation of FTW motherboards.

DESIGN DETAILS

Supported CPUs - 11th/10th Generation Intel® Core™ i9/i7/i5
Socket Type - Intel® Socket LGA1200
PCH - Intel® Z590

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

DIMM QTY - 4 DIMM Dual-Channel
Memory Type - DDR4 5100MHz+ (OC)
Memory Capacity - 128 GB

SATA 6Gb/s Ports - 6 from Intel® Z590 PCH
RAID Support - RAID 0, 1, 5, 10

M.2 Key-M Sockets -
1x 110 mm PCIe 4.0 (Up to 64 Gb/s), 1x 110 mm PCIe 3.0 (Up to 32 Gb/s),
1x 80 mm PCIe/SATA (Up to 32 Gb/s)

M.2 Key-E Sockets - 1 x 32 mm

USB 2.0 Ports - 3 Ports (1 header, 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, 1 header for Type-C, 1 Gen2x2 Type-C Port

Network Speed - 10/100/1000 Mbps
Network Controller - Intel® i219V Gigabit NIC

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

Audio - 7.1 Channel Realtek 1220, EVGA NU Audio
Display Output - DP 1.4, HDMI 2.0

Fan Headers - 2x CPU PWM, 5x PWM/DC, 1x PUMP Header

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

17 Phase Digital VRM
Preinstalled rear I/O cover
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

Length: 12 in - 305 mm
Width: 9.6 in - 244 mm
Form Factor: ATX

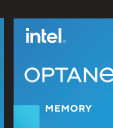
ACCESSORIES

EVGA Quick Installation Guide
2x SATA 6Gb/s Data Cables
M.2 Thermal Pads
2x Antennas for Wi-Fi
USB Flash Drive
+ Contains Drivers and Manual



PRODUCT WARRANTY

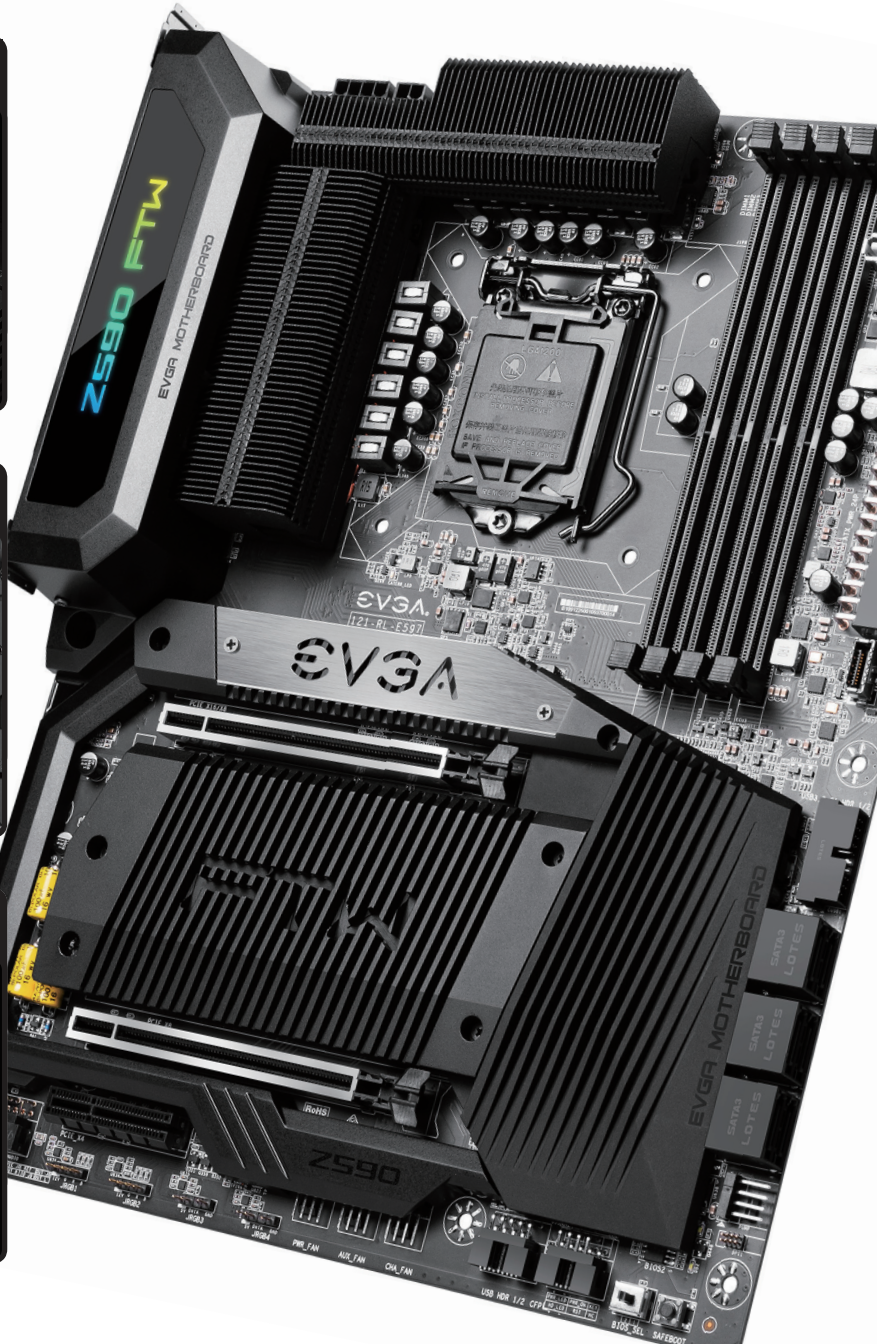
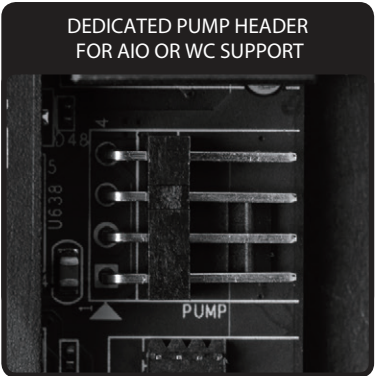
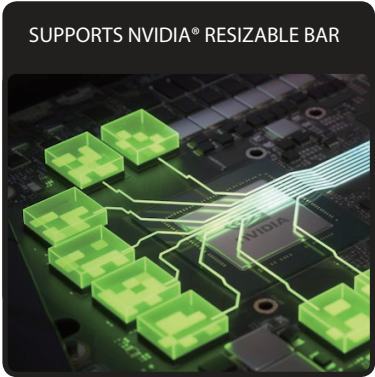
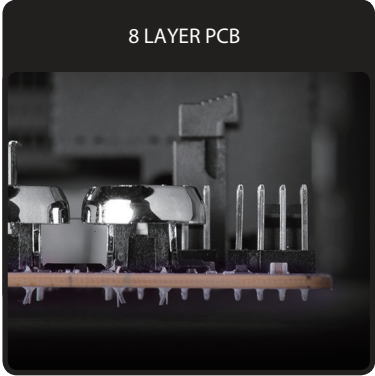
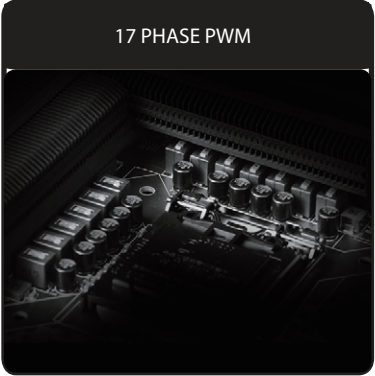
This product is covered under EVGA's 3 year limited warranty which covers parts and labor. Further warranty extension is available upon registration within 90 days of purchase. For more details please visit: www.evga.com/warranty



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