



Z490 FTW WiFi

Part No: 122-CL-E497-KR

INTRODUCTION



The EVGA Z490 FTW WiFi is ready for the latest 10th Gen Intel® Core™ i9 processors. The 10th Gen Intel® Core™ desktop processor platform provides an optimal balance of frequency, cores and threads, advanced tuning support, and blazing connectivity to supercharge desktops for a competitive edge. Featuring a variety of high-speed data and storage options, display output options, 7.1 Channel Audio, and Intel® wired/wireless network options, the Z490 FTW WiFi has everything you need. This board earns its FTW with a highly-efficient Digital VRM connected to a 14 Phase power design, 2-way SLI® support, metal-reinforced PCIe slots, and EVGA's latest GUI BIOS featuring OC Robot and an in-BIOS stress test. The EVGA Z490 FTW WiFi is the core of everything you do next. Lastly, a motherboard is only as good as its BIOS, and the EVGA Z490 FTW WiFi 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 1200, 10th Generation Intel® Core i9/i7/i5

Socket Type - Intel® Socket LGA1200
PCH - Intel® Z490

DIMM QTY - 4 DIMM Dual-Channel
Memory Type - DDR4 4400MHz+
Memory Capacity - 128GB

SATA 6.0Gb/s Ports/Controller - 4/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 - 5 Ports (4 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 - 4x USB3.2 Gen2 Type-A/1x USB3.2 Gen2x2 Type-C/1x USB3.2 Gen2 Type-C (internal header)

Network Speed - 10/100/1000
Network Ports/Controller - Intel® i219V PHY
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 - DP 1.2 / HDMI 1.4

PCIe Slot Arrangement - 2x16, 1x1
PCIe x16 Mechanical Slots - 2
PCIe x16 Mechanical Arrangement - 1x16/8, 1x8
PCIe x1 Mechanical Slots - 1
M.2 Key-M - 2x 110mm (Up to 32Gbps)
M.2 Key-E - 1x 32mm (Vertical)
Fan Headers - 7x 4-Pin (2x CPU PWM, 5x 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
- 4 DIMM Dual-Channel up to 128GB 4400MHz+
- PCI Express® 3.0 Ready
- 5 USB 2.0 Ports (4 from internal headers / 1 from Update Port)
- 4 USB 3.2 Gen1 Ports (2 rear panel, 2 from 1 internal header)
- 5 USB 3.2 Gen2 Ports (4 Type-A rear panel, 1 Type-C Header)
- 1 USB 3.2 Gen2x2 Port (1 Type-C rear panel)
- 1 PS/2 (Mouse+Keyboard support)
- Intel® Optane Support
- 6 SATA 6.0Gb/s (4 on Intel® Z490 PCH / 2 from ASMedia ASM1061)
- 2 M.2 Key-M 110mm up to 32Gbps
- 1 M.2 Key-E 32mm
- 1 DisplayPort 1.2 / 1 HDMI 1.4
- 1 Intel® i219V Gigabit NIC (10/100/1000)
- 1 Intel® WiFi 6 / BT 5.1 module, preinstalled

DIMENSIONS

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

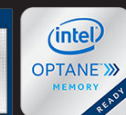
ACCESSORIES

- EVGA Quick Installation Guide
- Rear Case I/O Panel
- 2 SATA 6G Data Cables
- 2x M.2 Thermal Pad
- 2x Antenna for WiFi
- 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





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INTRODUCTION

FULL UEFI GUI BIOS INTERFACE

Focused on functionality



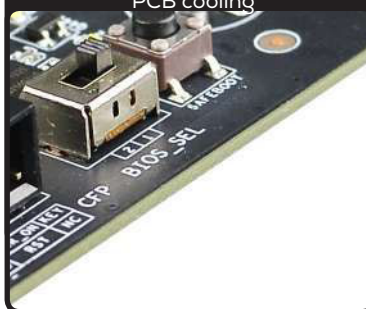
ELEET X1 TUNING UTILITY

Adjust your overclocking in OS



6 LAYER PCB

Improved overclock stability and PCB cooling



14 PHASE PWM

Cleanest variable power switching



HIGHER GOLD CONTENT (150%)

Lower contact resistance, better power delivery



USB3.2 Gen2 + USB3.2 Gen2x2

Integrated WiFi 6/BT 5.1
Mini-DisplayPort + HDMI

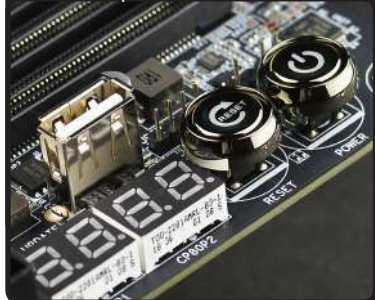


Intel® Optane™ Memory Ready



ONBOARD POWER / RESET

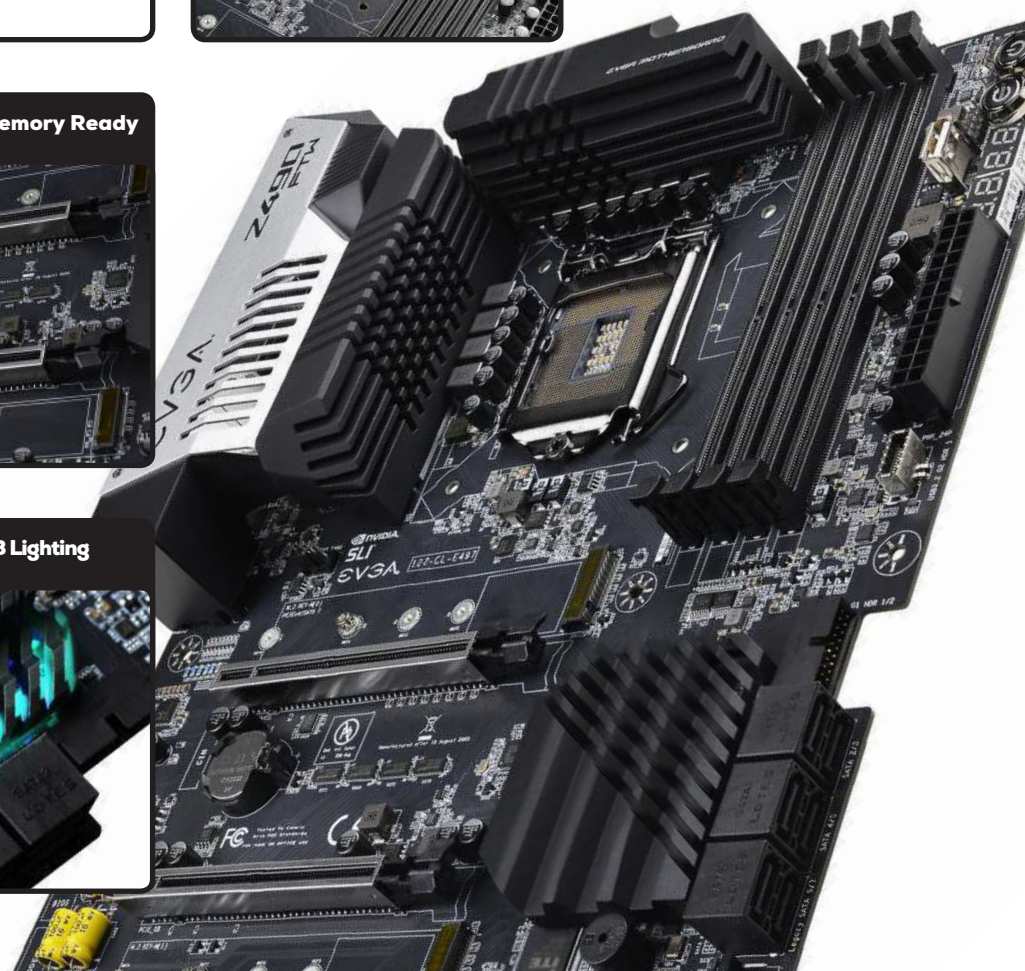
Dual Voltage/CPU
Temperature Monitors



NVIDIA® SLI® Ready with Reinforced PCIe Slots



Onboard ARGB Lighting



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