



X299 FTW-K

Part No: **142-SX-E297-KR**

INTRODUCTION



EVGA welcomes you to the next generation of Intel Enthusiast performance: the X299 FTW-K! The X299 platform supports the newest Skylake-X and Kaby Lake-X processors. EVGA X299 motherboards further refine high-performance with multiple options for all the latest SSD options with support for U.2, M.2 and PCIe drives and is Intel® Optane™ Memory Ready – a revolutionary higher-density memory interface, based on 3D XPoint Technology, delivers a new generation of SSDs designed to obliterate loading times for gamers. However, the X299 platform also supports all the features you've come to expect from EVGA, including up to 128GBs of Quad-Channel DDR4 at up to 4000MHz+ for Skylake-X, and 4133MHz+ for Kaby Lake-X (OC), Gigabit-NIC support, USB 3.0 and USB 3.1 Type-A and Type-C support, an updated UEFI\BIOS GUI, PWM fan control and a variety of SATA options to fit everyone's needs. The X299 FTW-K is built with a 8-layer PCB, featuring a CPU socket with 150% higher Gold content powered by an Advanced 14-phase Digital VRM, providing industry-leading stability for all your applications.

Furthermore, this board is designed not ONLY for overclockers, but also for gamers with NVIDIA® 3-Way SLI without the need for PLX chips, blazing-fast networking featuring the Killer E2500 NIC and an Intel i219, Dual M.2 Key-M, Dual U.2, 8 SATA 3/6g and much more! Combining the best of current technology with the latest innovations, EVGA is further refining motherboard performance!

DESIGN DETAILS

Supported CPUs -

Intel® 7th Generation Socket 2066 Extreme Series Processors

Socket Type - Intel® Socket 2066

PCH - Intel® X299

DIMM QTY - 8 DIMM Quad-Channel

Memory Type - DDR4 4000MHz+ (SKX), 4133MHz+ (KBX)

Memory Capacity - 128GB

SATA 6.0Gb/s Ports/Controller - 8 / Intel® X299 PCH

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

USB 2.0 Ports/Controller -

4 Ports / 2 (from internal header) / Intel® X299 PCH

USB 3.0 Ports/Controller -

6 (2 from 1 internal headers) / Intel® X299 PCH

USB 3.1 Ports/Controller - 1x Type-A, 1x Type-C

Network Speed - 10/100/1000

Network Ports/Controller -

2 / Killer™ E2500 NIC / Intel® i219 PHY

Audio - 7.1 Channel HD Audio

Audio Controller - Realtek ALC1150 + Optical

PCIe Slot Arrangement - 4x16, 1x4 and 1x1

PCIe x16 Mechanical Slots - 4

PCIe x4 Mechanical Slots - 1

PCIe x1 Slots - 1

M.2 / 2x Key-M - 1x 110mm, 1x 80mm (Up to 32Gbps)

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

BIOS Type - Full UEFI with mouse/keyboard control

Software - EVGA E-LEET X Tuning Utility

Fan Headers - 7 4-Pin (2 PWM, 5 DC/PWM)

KEY SPECS

- Supports Intel® Core™ 7th Generation Processor Family for 2066 socket
- 150% Increased Gold Content
- Intel® X299 Chipset
- Enthusiast Layout Supporting 3-Way SLI®
- 8 DIMM Quad Channel DDR4 up to 128GB 4000MHz+ Skylake-X, and 64GB 4133MHz+ Kaby Lake-X
- PCIe 3.0 Ready
- 4 USB 2.0 Ports (2 internal headers)
- 8 USB 3.0 Ports (6 rear panel, 2 from 1 internal header)
- 2 USB 3.1 Ports (1x Type-A, 1x Type-C)
- Intel® Optane Support
- 8 SATA 3.0 Ports
- 2 M.2 Key-M 110,80mm (up to 32Gbps)
- 1 M.2 Key-E 32mm
- 2 U.2 Port
- 1x Intel® i219 Gigabit Ethernet Port (10/100/1000)
- 1x Killer™ E2500 NIC
- EATX Form Factor

DIMENSIONS

- Width: 10.375in – 276.7mm
- Length: 12in – 304.8mm
- Form Factor: EATX Form Factor

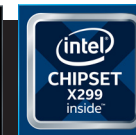
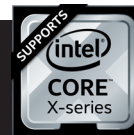
ACCESSORIES

- EVGA Driver Installation Disc with EVGA E-LEET
- Rear Case I/O Panel
- Rear Case I/O Cover
- Rear Case Audio Cover
- 2 SATA 6G Data Cables
- Vertical adapter for M.2 Key-E
- 2x Thermal Pads for M.2 SSDs
- Case Badge
- Manual



PRODUCT WARRANTY

This product is covered under EVGA's 3 year 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





X299 FTW-K

Part No: **142-SX-E297-KR**

FEATURES

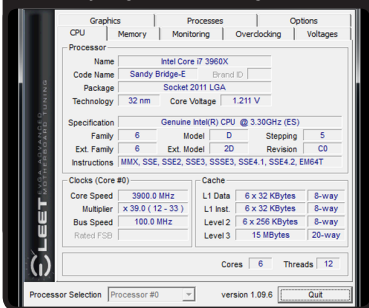
FULL UEFI GUI BIOS INTERFACE

Focused on functionality



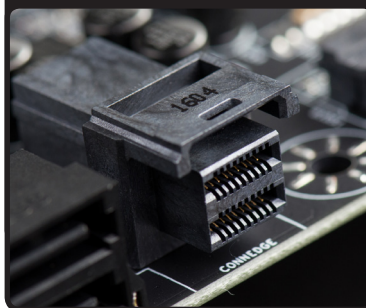
E-LEET TUNING UTILITY

Adjust your overclocking in OS



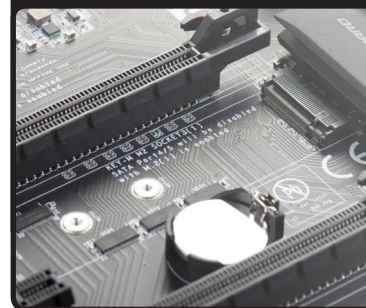
INCLUDES U.2 SUPPORT

Next Gen Interface



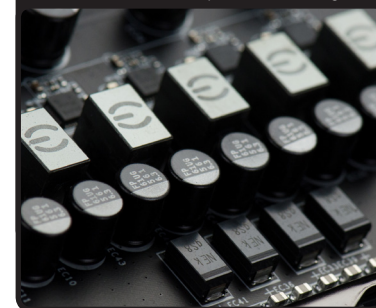
M.2 SLOT

Next Generation Form Factor



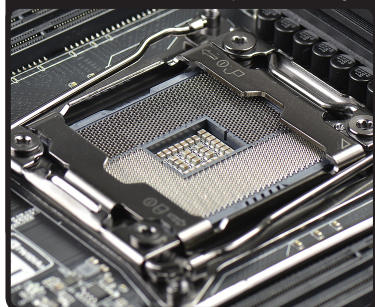
14 PHASE PWM

Cleanest variable power switching



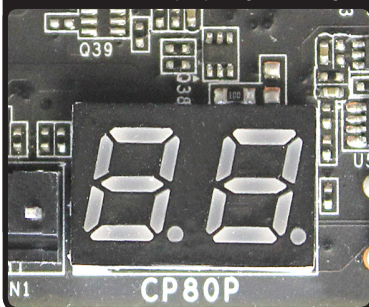
HIGHER GOLD CONTENT

Lower inductance, better power delivery!



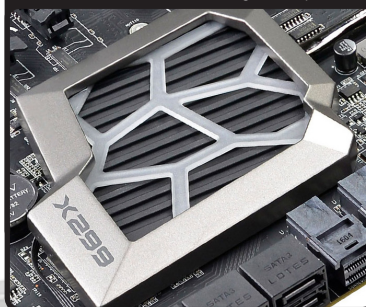
ONBOARD CPU TEMP MONITOR

Monitor CPU temps quickly and easily



PASSIVE CHIPSET HEATSINK

No fans, lower noise, longer lifespan



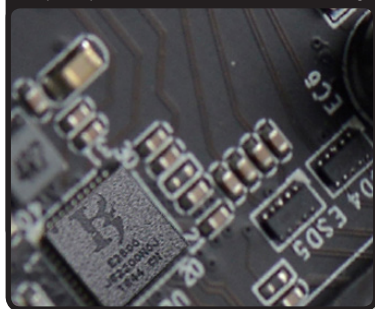
8 LAYER PCB

Improved overclock stability and PCB cooling



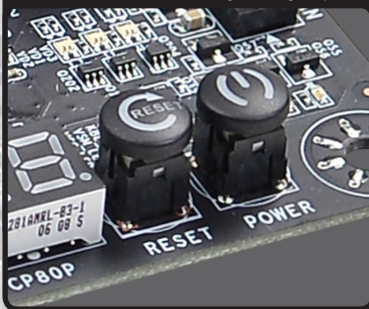
KILLER E2500 NIC

Helps to prioritize & reduce network latency



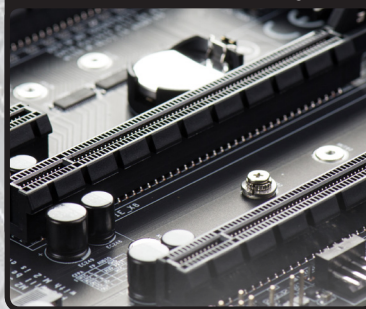
ONBOARD POWER / RESET

CMOS Reset Buttons at your fingertips.



3-Way SLI

Able to handle the most demanding videos.



PRODUCT WARRANTY

This product is covered under EVGA's 3 year 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

