



EVGA introduces you to the ultimate in raw performance for the next gen Intel® Extreme lineup: The EVGA X299 Dark. The Dark is crafted from the ground up to be the performance apex with everything you need to make a record-breaking benching run or a 24/7 number cruncher, and nothing you don't – a board that is as reliable as it is fast. The EVGA X299 Dark has all of the current gen top-tier component support, multiple M.2 slots, Intel® Optane™ support, multiple U.2 ports, up to 64GB of 4000MHz+ (OC) Quad-Channel RAM on a Skylake-X or up to 32GB of 4133MHz+ (OC) Dual-Channel RAM, dual Intel® GbE LAN, USB 3.1, and a full-featured GUI UEFI/BIOS.

There is much to be said about a beautifully-engineered motherboard designed to handle the highest loads or the most extreme conditions, let alone the rigors and abuse constantly demanded by the best overclockers in the world, and still look good doing it. This was achieved, in part, by using a 12-layer PCB, a 16-phase Digital VRM (12 VCore, 1VSA, 1VCCIO, 2 Phase Memory PWM), 100% solid state capacitors, a CPU socket with 300% higher gold content, and an external BCLK. The X299 Dark proves once again that until you have used it, you don't know the power of the Dark side of the EVGA motherboard lineup.

DESIGN DETAILS

Supported CPUs -

Intel® 7th Generation Socket 2066 X-Series Processors

Socket Type - Intel® Socket 2066

PCH - Intel® X299

DIMM QTY - 4 DIMM Quad-Channel

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

Memory Capacity - 64GB

SATA 3/6.0Gb/s (600 MB/s)

Ports/Controller - 6 / Intel® X299 PCH

SATA 3/6.0Gb/s (600 MB/s)

Ports/Controller - 2 / ASMedia ASM1061

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

USB 2.0 Ports/Controller -

4 Ports / 4 from 2 internal headers / Intel® X299 PCH

USB 3.0 Ports/Controller -

8 (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 / Intel® i210AT MAC+PHY/ Intel® i219V PHY

Audio - 5.1 Channel HD Audio

Audio Controller - Creative Core3D CA0132 + Optical

PCIe Slot Arrangement - 5x16, 1x4

PCIe x16 Mechanical Slots - 5

PCIe x16 Electrical Arrangement* - 2x16, 3x8

PCIe x4 Mechanical Slots - 1

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

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

U.2 - 2x U.2

*PCIe, M.2, and U.2 availability and speeds depend upon the number of lanes on the installed CPU. These specs are provided using a 44-lane Skylake-X CPU.

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

BIOS Type - Full UEFI with mouse/keyboard control

Software - EVGA E-LEET X Tuning Utility

KEY SPECS

- Supports Intel® Core™ 7th Generation Processor Family for 2066 socket
- 300% Increased Gold Content
- Intel® X299 Chipset
- Enthusiast Layout Supporting 4-Way SLI**
- 4 DIMM Quad Channel DDR4 up to 64GB 3600MHz+ Skylake-X, and 32GB 4133MHz+ Kaby Lake-X
- PCI Express® 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 6 Gbps (6 from X299 PCH / 2 from ASMedia ASM1061)
- 1 M.2 Key-M 110mm (up to 32Gbps)
- 1 M.2 Key-M 80mm (up to 32Gbps)
- 1 M.2 Key-E 32mm
- 2 U.2 Port
- 1x Intel® i210AT Gigabit Ethernet Port (10/100/1000)
- 1x Intel® i219V Gigabit Ethernet Port (10/100/1000)
- EATX Form Factor
- **4-Way SLI® supported when using a 44-lane Skylake-X CPU

DIMENSIONS

- Width: 10.895in – 276.7mm
- Length: 12in – 304.8mm
- Form Factor: EATX Form Factor

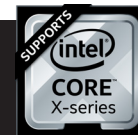
ACCESSORIES

- EVGA Driver Installation Disc with EVGA E-LEET X
- Rear Case I/O Panel
- 3-Way SLI® Bridge
- 2 SATA 6G Data Cables
- ProbelIT adapter
- Socket 20XX Backplate (optional)
- Vertical adapter for M.2 Key-E
- 2x Thermal Pad for M.2 SSDs
- Visual Guide / Bench Stand (incl. standoffs and screws)
- USB 2.0 Header Bracket
- 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.



FULL UEFI GUI BIOS INTERFACE
Focused on functionality

E-LEET TUNING UTILITY
Adjust your overclocking in OS

Name	Intel Core i9-7980XE
Code Name	Skylake-X
Package	Socket 2066 LGA
Technology	14 nm
Core Voltage	1.250 V
TJMax	105.0 °C
Specification	Intel(R) Core(TM) i9-7980XE CPU @ 2.60GHz (ES)
Family	6
Ext. Family	6
Model	5
Stepping	4
Revision	H0
Instructions	SSE3, SSE4.1, SSE4.2, SSE4.3, SSE4.4, SSE4.5, SSE4.6, SSE4.7, SSE4.8, SSE4.9, SSE4.10, SSE4.11, SSE4.12, SSE4.13, SSE4.14, SSE4.15, SSE4.16, SSE4.17, SSE4.18, SSE4.19, SSE4.20, SSE4.21, SSE4.22, SSE4.23, SSE4.24, SSE4.25, SSE4.26, SSE4.27, SSE4.28, SSE4.29, SSE4.30, SSE4.31, SSE4.32, SSE4.33, SSE4.34, SSE4.35, SSE4.36, SSE4.37, SSE4.38, SSE4.39, SSE4.40, SSE4.41, SSE4.42, SSE4.43, SSE4.44, SSE4.45, SSE4.46, SSE4.47, SSE4.48, SSE4.49, SSE4.50, SSE4.51, SSE4.52, SSE4.53, SSE4.54, SSE4.55, SSE4.56, SSE4.57, SSE4.58, SSE4.59, SSE4.60, SSE4.61, SSE4.62, SSE4.63, SSE4.64, SSE4.65, SSE4.66, SSE4.67, SSE4.68, SSE4.69, SSE4.70, SSE4.71, SSE4.72, SSE4.73, SSE4.74, SSE4.75, SSE4.76, SSE4.77, SSE4.78, SSE4.79, SSE4.80, SSE4.81, SSE4.82, SSE4.83, SSE4.84, SSE4.85, SSE4.86, SSE4.87, SSE4.88, SSE4.89, SSE4.90, SSE4.91, SSE4.92, SSE4.93, SSE4.94, SSE4.95, SSE4.96, SSE4.97, SSE4.98, SSE4.99, SSE4.100

INCLUDES U.2 SUPPORT
Next Gen Interface

M.2 SLOT
Next Generation Form Factor

16 PHASE PWM
Cleanest variable power switching

300% HIGHER GOLD CONTENT
Lower inductance, better power delivery!

MULTI-PURPOSE POST INDICATOR

Monitor multiple temps and voltages using two separate LED displays.

FULL BODY COVER WITH ACTIVE PCH & M.2 COOLING
Actively cool the PCH and your M.2 SSDs.

12 LAYER PCB
Improved overclock stability and PCB cooling

CREATIVE CORE3D AUDIO
5.1 Channel + Optical for an immersive gaming experience

ONBOARD CLEAR CMOS/POWER/RESET
Quick tools for testing or benching your system

4-Way SLI®
Able to handle the most demanding games.*

ACTIVE VRM COOLING
Dual-fans keep the VRM cool under any load.

*4-Way SLI® requires a 44-lane Skylake-X CPU



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