



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.

## 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 4000MHz+ 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

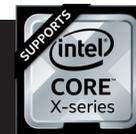
## ACCESSORIES

- 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](http://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	Max TDP	165 W		
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	Model	5	Stepping	4
Ext. Family	6	Ext. Model	55	Revision	H0
Instructions	SSE3, VT-x, SSE3, PMO3, DCA, SSE4.1, SSE4.2, x2APIC, AES, AVX, MMX, SSE, SSE2, HTT, Intel 64, AVX2, TSX				

**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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