**INTRODUCTION**

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 128GB of 4000MHz+ (OC) Quad-Channel RAM on a Skylake-X or up to 64GB 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, 1 VSA, 1 VCCIO, 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.

**KEY SPECS**
- Supports Intel® Core™X-Series 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 128GB 4000MHz+ Skylake-X, and 64GB 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

**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. standoffss and screws)
- USB 2.0 Header Bracket
- Case Badge
- Manual

**DESIGN DETAILS**

Supported CPUs -
- Intel® 7th Generation Socket 2066 Processors
(Cascade Lake-X, Skylake-X, and Kaby Lake-X)
- Socket Type - Intel® Socket 2066
- PCH - Intel® X299

DIMM QTY - 4 DIMM Quad-Channel
Memory Type - DDR4 4000MHz+ (SKX), 4133MHz+ (KBX)
Memory Capacity - 128GB

SATA 3/0.6Gb/s (600 MB/s)
Ports/Controller - 6 / Intel® X299 PCH
SATA 3/0.6Gb/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

**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.
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

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.

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

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

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

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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