

WS X299 PRO

CPU Intel® Socket 2066 Core™ X-Series Processors

* The Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types

* Refer to www.asus.com for CPU support list

Chipset Intel® X299

Memory Intel® Core™ X-series Processors (6-core above)

8 x DIMM, Max. 128GB, DDR4 4133(O.C.)/3600(O.C.)/2666/2400/2133 MHz
Non-ECC, Un-buffered Memory

Intel® Core™ X-series Processors (4-core)

4 x DIMM, Max. 64GB, DDR4 4133(O.C.)/3600(O.C.)/2666/2400/2133 MHz
Non-ECC, Un-buffered Memory

Supports Intel® Extreme Memory Profile (XMP)

* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

* Actual memory frequency differs from Intel CPU types and memory module.
Please check Intel official site for more detail about the memory types supported by each CPU.

Multi-GPU Support Supports NVIDIA® 3-Way SLI™ Technology *

Supports AMD 3-Way CrossFireX™ Technology *

Expansion Slots 44-Lane CPU-

2 x PCIe 3.0 x16 (x16 mode)

1 x PCIe 3.0 x16 (x8 mode)

1 x PCIe 3.0 x16 (x4 mode)

1 x PCIe 3.0 x4 (x4 mode)

28-Lane CPU-

1 x PCIe 3.0 x16 (x16 mode)

1 x PCIe 3.0 x16 (x8 mode)

1 x PCIe 3.0 x16 (x4 mode)

1 x PCIe 3.0 x4 (x4 mode)

16-Lane CPU-

1 x PCIe 3.0 x16 (x8 mode)

Need Help?

2 x PCIe 3.0 x16 (x4 mode)

1 x PCIe 3.0 x4 (x4 mode)

Storage **Intel® X299 Chipset :**

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)*¹

1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIe 3.0 x 4 mode)*²

1 x U.2 connector

6 x SATA 6Gb/s port(s)

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology 15 support

Support Intel® Rapid Storage Technology enterprise 5.1 for X-Series(6-core and above) CPU RAID

Supports Intel® Smart Response Technology

Intel® Optane™ Memory Ready

LAN **Intel® I210-AT, 2 x Gigabit LAN Controller(s)**

Audio **Realtek® ALC S1220A 7.1-Channel High Definition Audio CODEC** featuring Crystal Sound 3

- Impedance sense for front and rear headphone outputs
- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers
- Supports : Jack-detection, Multi-streaming, Front Panel MIC Jack-retasking
- High quality 120 dB SNR stereo playback output (Line-out at rear) and 113 dB (Line-in)

Audio Feature :

- DTS Connect
 - DTS Headphone:X
 - Audio amplifier: Provides the highest-quality sound for headphone and speakers
 - Premium Japanese audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
 - Unique de-pop circuit: Reduces start-up popping noise to audio outputs
- Separate layer for left and right track, ensuring both sound deliver equal quality

Premium Japan-made audio capacitors provides warm, natural, and immersive sound with exceptional clarity and fidelity

USB Ports **Intel® X299 Chipset :**

6 x USB 3.1 Gen 1 port(s) (4 at back panel, , 2 at mid-board)

Intel® X299 Chipset :

6 x USB 2.0 port(s) (4 at back panel, , 2 at mid-board)

ASMedia® USB 3.1 Gen 2 controller :

2 x USB 3.1 Gen 2 port(s) (2 at back panel, , Type-A + USB Type-C™)

ASMedia® USB 3.1 Gen 2 controller :

1 x USB port(s)

Need Help?

Special Features **OC Design - ASUS PRO Clock II Technology**

5-Way Optimization by Dual Intelligent Processors 5

- 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Expert 4, and Turbo App

TPU

Fan Xpert4

- Fan Xpert 4 featuring Fan Auto Tuning function and multiple thermistors selection for optimized system cooling control

ASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
- ASUS Overvoltage Protection: World-class circuit-protecting power design
- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection

ASUS EPU :

- EPU

ASUS Digital Power Design :

- Industry leading Digital 8 Phase CPU Power Design
- Industry leading Digital 2 Phase DRAM Power Design

AURA :

- Aura RGB Strip Headers
- Aura Addressable Strip Header(s)

ASUS Exclusive Features :

- AI Suite 3
- Ai Charger+
- Turbo LAN
- Crystal Sound 3

ASUS EZ DIY :

- ASUS CrashFree BIOS
- ASUS EZ Flash
- ASUS USB BIOS Flashback
- Multi-language BIOS

ASUS Q-Design :

- ASUS Q-Shield
- ASUS Q-Code
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

M.2 and U.2 Onboard (The Latest Transfer Technology with up to 32Gb/s Data-transfer Speeds for M.2 and U.2)

Asus Control Center (ACC) IT management software supported

Back I/O Ports 2 x LAN (RJ45) port(s)

2 x USB 3.1 Gen 2 (teal blue) Type-A + USB Type-C™

4 x USB 3.1 Gen 1

4 x USB 2.0

Need Help?

- 1 x Optical S/PDIF out
- 1 x USB BIOS Flashback Button(s)
- 1 x 8-channel Audio I/O

Internal I/O Ports

- 1 x Aura Addressable Strip Header(s)
- 1 x AAFP connector
- 1 x Aura RGB Strip Header
- 1 x USB 3.1 Gen 1 connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s)
- 1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)
- 2 x M.2 Socket 3
- 1 x TPM header
- 6 x SATA 6Gb/s connector(s)
- 1 x VROC_HW_Key
- 2 x CPU Fan connector(s)
- 1 x AIO_PUMP connector
- 1 x Thunderbolt header(s)
- 1 x 24-pin EATX Power connector(s)
- 2 x 8-pin ATX 12V Power connector(s)
- 1 x 6-pin EZ_PLUG Power connector(s)
- 1 x EZ XMP switch
- 1 x Front panel connector(s)
- 1 x AUX panel header(s)
- 1 x MemOK! button(s)
- 1 x Thermal sensor connector(s)
- 1 x CPU OV
- 1 x Power-on button(s)
- 1 x Clear CMOS button(s)
- 1 x 5-pin EXT_FAN(Extension Fan) connector
- 1 x Rear fan
- 1 x COM port header
- 1 x U.2 Connector (support U.2 NVMe device)
- 1 x USB 3.1 Gen 2 front panel connector
- 1 x PANEL2
- 1 x PUMP Fan connector
- 1 x PANEL1

Accessories

- User's manual
- 1 x Vertical M.2 bracket set
- I/O Shield
- 1 x COM port cable(s)
- 6 x SATA 6Gb/s cable(s)
- 2 x M.2 screws
- 1 x Supporting DVD
- 1 x 3-Way SLI bridge(s)
- 1 x SLI bridge(s)
- 1 x Q-Connector
- 1 x 2-port USB module(s)
- 1 x Extension Cable for RGB strips (80 cm)

Need Help?

Form Factor ATX Form Factor
12 inch x 9.6 inch (30.5 cm x 24.4 cm)

Weight Gift Box(3-in-1)
Net Weight: 4.59 Kg
Gross Weight: 7.48 Kg

Bulk Pack(5-in-1)
Net Weight: 7.15 Kg
Gross Weight: 8.94 Kg

Note*Actual number of Multi-graphic supported differs per Vendors' Graphic cards. Please check with Vendor beforehand.
*1 Bandwidth is shared between M.2_2 and U.2
*2 SATA Bandwidth is shared between M.2_1 and SAT6G_1

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

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Community

India / English