

Pro WS C246-ACE

CPU Intel® Socket 1151 For Xeon® E-2200/E-2100 family 9th / 8th Gen

Intel® Core™, Pentium® Gold and Celeron® Processors

* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

Chipset Build in Intel® C246

Memory 4 x DIMM, Max. 128GB, DDR4 2666/2400/2133 MHz ECC and non-ECC Memory

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

ECC Memory (ECC mode) support varies by CPU.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

* The maximum memory frequency supported varies by processor

** DDR4 2666MHz and higher memory modules will run at max. 2666MHz on Intel® 8th Gen. 6-core or higher processors.

Graphic Integrated Graphics Processor- Intel® UHD Graphics support

Multi-VGA output support : HDMI/DisplayPort ports

- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz

- Supports DisplayPort 1.2 with max. resolution 4096 x 2160 @ 60 Hz

Maximum shared memory of 2048 MB (for iGPU exclusively)

Multi-GPU Support Supports AMD 2-Way CrossFireX Technology

Expansion Slots 2 x PCIe 3.0/2.0 x16 (x16 or dual x8)

1 x PCIe 3.0/2.0 x16 (max at x2 mode)

2 x PCIe 3.0/2.0 x1

StorageIntel® C246 Chipset :

1 x M.2_1 socket 3, , with M key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)

1 x M.2_2 socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 2 mode)

1 x U.2 connector*2

4 x SATA 6Gb/s port(s)

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology supports

LANIntel® I210-AT, 1 x Gigabit LAN Controller(s)

Intel® I219-LM , 1 x Gigabit LAN Controller(s)

ASUS Turbo LAN Utility

ASUS LAN Guard

AudioRealtek® ALC S1220A 8-Channel High Definition Audio CODEC featuring Crystal Sound 3

- Power pre-regulator reduces power input noise to ensure consistent performance
- 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 Jack-retasking, Front Panel MIC Jack-retasking

Audio Feature :

- Optical S/PDIF out port(s) at back panel
- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
- Premium Japanese-made 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

USB PortsIntel® C246 Chipset :

4 x USB 3.2 Gen 2 port(s) (4 at back panel, , 3 x Type-A, 2 at mid-board)

Intel® C246 Chipset :

6 x USB 2.0 port(s)

Intel® C246 Chipset :

4 x USB 2.0 port(s) (4 at mid-board)

Special FeaturesASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-

electricity discharges!

- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention

- ASUS ESD Guards - Enhanced ESD protection

ASUS EPU :

- EPU

ASUS Exclusive Features :

- AI Suite 3

- Ai Charger

- Turbo LAN

- Armoury Crate

- ASUS NODE: hardware control interface

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution & MOS Heatsink

- ASUS Fan Xpert 4

ASUS EZ DIY :

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

- ASUS UEFI BIOS EZ Mode

ASUS Q-Design :

- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)

- ASUS Q-Slot

- ASUS Q-DIMM

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

Back I/O Ports 1 x DisplayPort

1 x HDMI

2 x LAN (RJ45) port(s)

3 x USB 3.1 Gen 2 (teal blue) Type-A,

1 x USB 3.1 Gen 2 Type-C

4 x USB 3.1 Gen 1 (blue)

1 x Optical S/PDIF out

5 x Audio jack(s)

Internal I/O Ports 1 x AAFP connector

1 x USB 3.1 Gen 1 (up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s) (19-pin)

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

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

1 x **M.2** Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (both SATA & x2 PCIe mode)

4 x SATA 6Gb/s connector(s)

1 x CPU Fan connector(s)

1 x CPU OPT Fan connector(s)

3 x Chassis Fan connector(s) ()

1 x 24-pin EATX Power connector(s)
2 x 8-pin ATX 12V Power connector(s)
1 x Thermal sensor connector(s)
1 x Clear CMOS jumper(s)
1 x Node Connector(s)
1 x U.2 connector
1 x System panel connector
1 x COM port header
1 x AIO PUMP Header

Accessories

User's manual
I/O Shield
1 x M.2 Screw Package
1 x Supporting DVD

BIOS 128 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.1, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F9 Search, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information

Manageability

Operating System Windows® 10 64-bit

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



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- 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 to 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.

- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- *Precise specifications and features vary by model . Please refer to the specification page
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