

Intel® LGA2066 ATX motherboard with complete IT infrastructure management supporting Intel® Xeon® processor and ECC memory

- Powered by Intel® Xeon® W processor with ECC memory
- ASUS Control Center - A software utility that provides convenient, secure and cost-saving centralized IT management for small and medium businesses
- Server-grade design with built-in dual Intel Gigabit LAN
- Next-gen transfer speeds - Up to 32Gbps dual M.2 and U.2, plus up to 10Gbps USB 3.1 Type-A and Type-C connections
- Ultimate graphics power with 2/3-Way NVIDIA® SLI™ and AMD® Crossfire X™
- Ultra-efficient VRM heatsink - Metal fin array connected to large surface area via a heatpipe tames C422 thermals to enable unthrottled performance

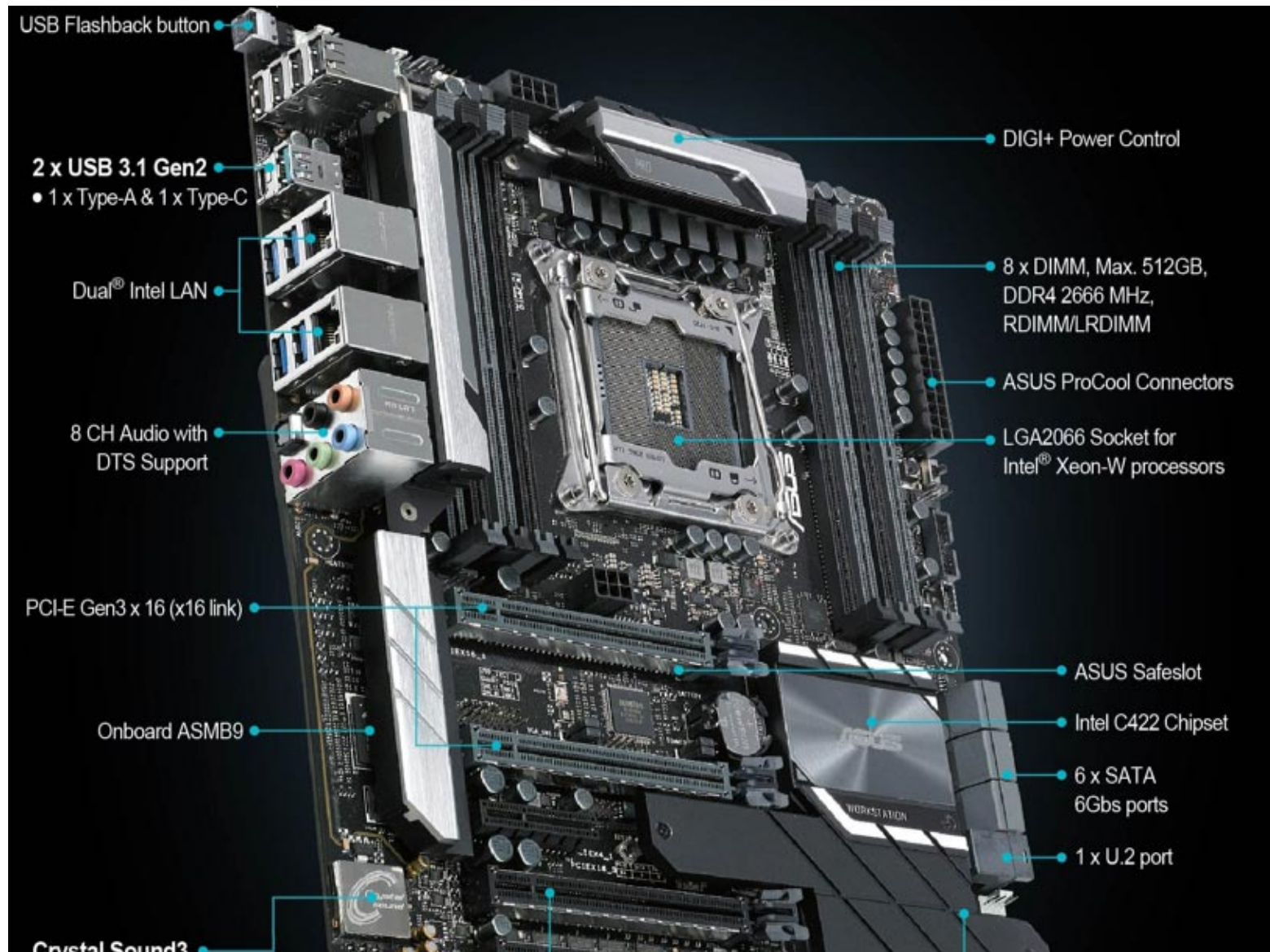
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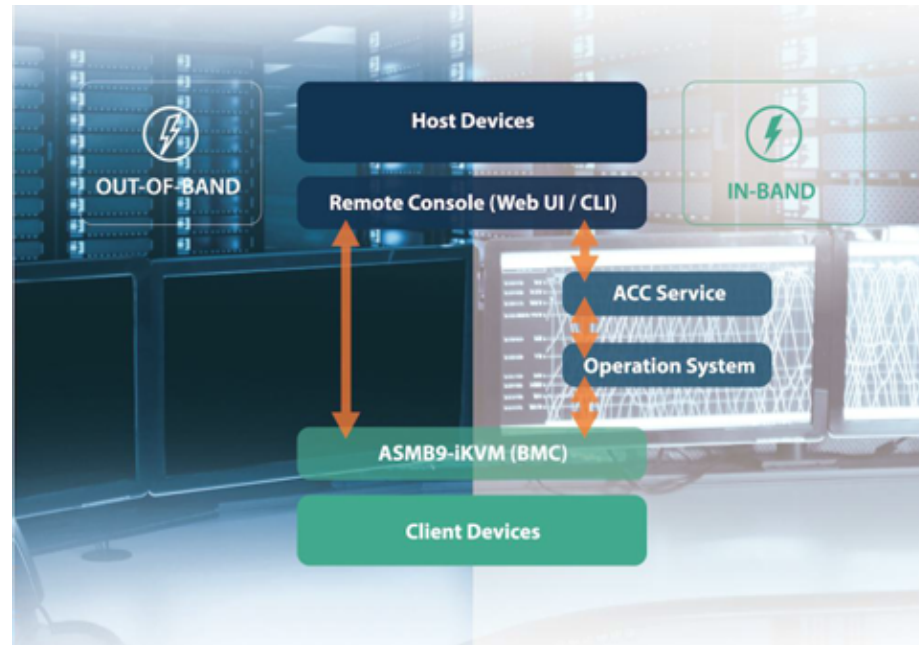


Comprehensive IT Management Software

WS C422 PRO/SE features an embedded iKVM module and is bundled with ASUS Control Center software to provide comprehensive in-band and out-of-band management features for small and mid-size businesses:

[ASUS Control Center \(ACC\)](#) is a centralized and integrated IT management platform for monitoring and controlling ASUS commercial products, including servers, workstations and digital signage. ACC enables remote BIOS updates, monitoring of multiple systems via mobile devices, and one-click software updates and dispatching, allowing easier server management for any IT infrastructure.

The embedded ASMB9-iKVM module supports remote BIOS updates, fans control, standalone KVM, video recording, and BSOD capture, providing around-the-clock remote monitoring and diagnostics — even if the operating system is down or offline — through a user-friendly, web-based graphical interface that works with all major browsers.

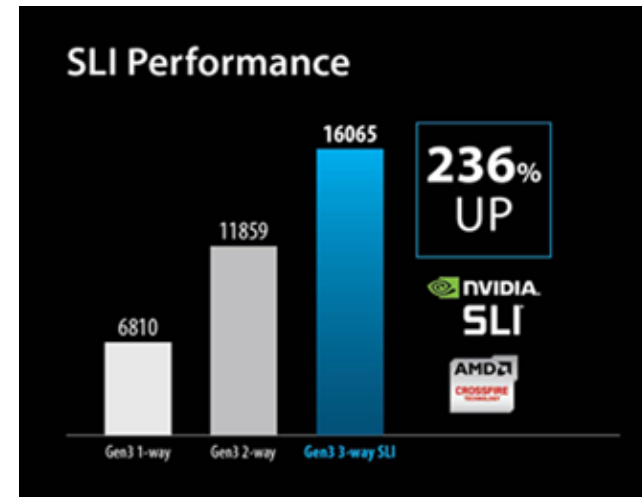
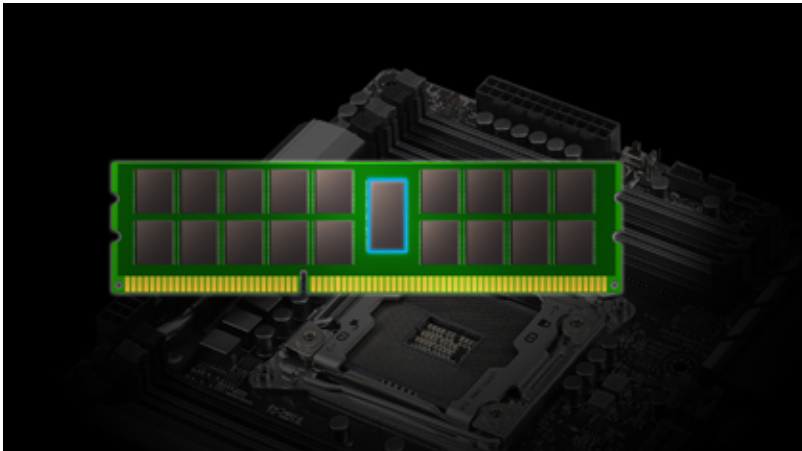


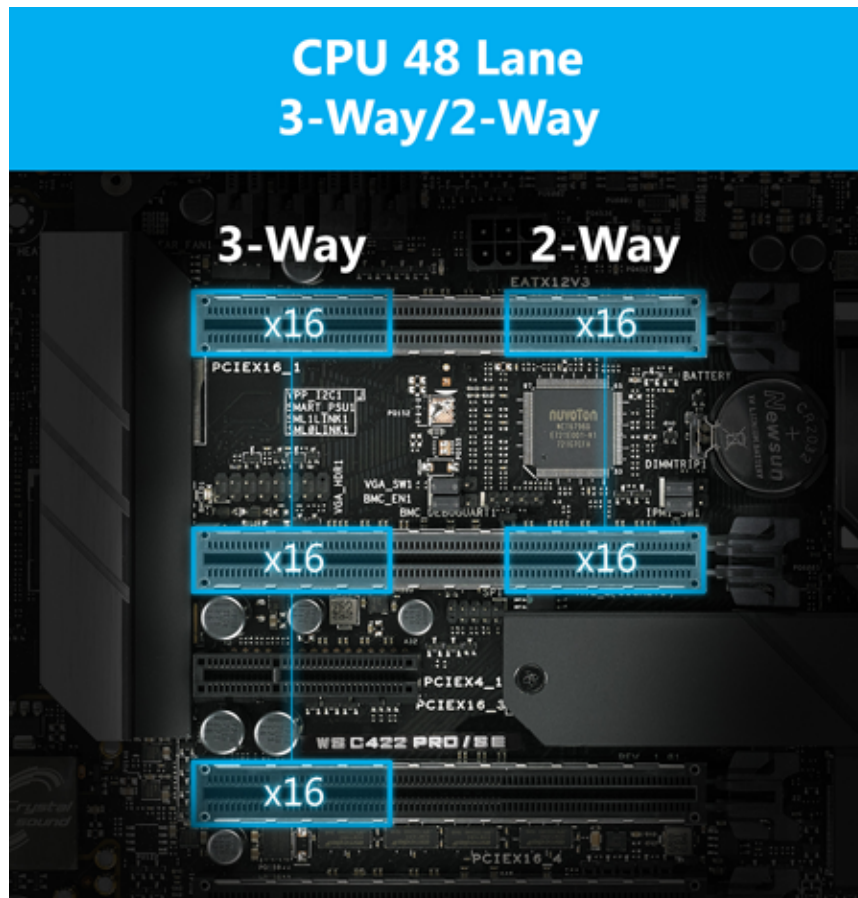
Powerful performance with Intel® Xeon® W processor and ECC memory

WS C422 PRO/SE supports server-grade Intel® Xeon® W series processors to deliver powerful, optimized performance in always-on usage scenarios. Support for Error-Correcting Code (ECC) memory enables automatic detection and repair of single-bit memory errors, reducing the chance of system crashes and data corruption to ensure reliable and responsive workstation performance.

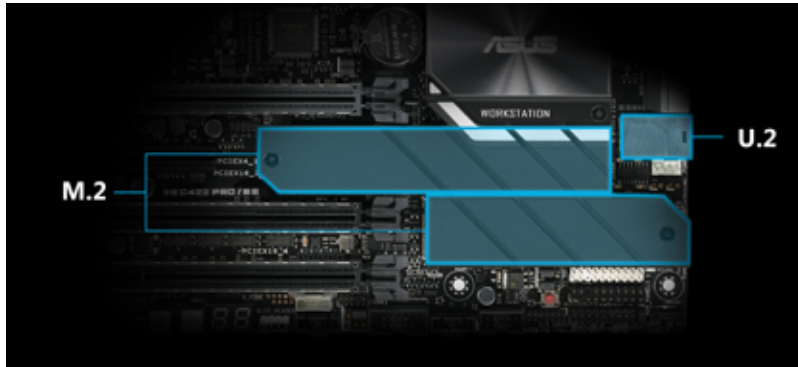
Up to 3-way Multi-GPU support with True PCIe Gen3 x 16 link

WS C422 PRO/SE features three true PCIe Gen 3 links with support for two-way and three-way NVIDIA®SLI™ and AMD CrossFireX™ configurations to enable multiple GPU setups that harness the full power of the latest graphics technologies to unleash maximum graphics processing performance.





Ultra-fast storage and I/O options



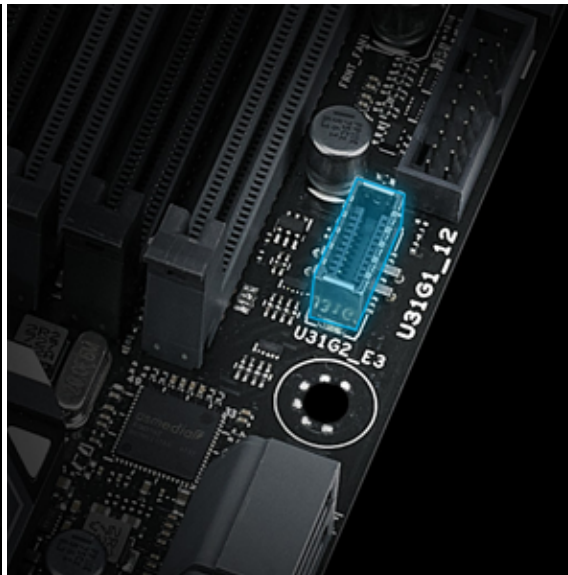
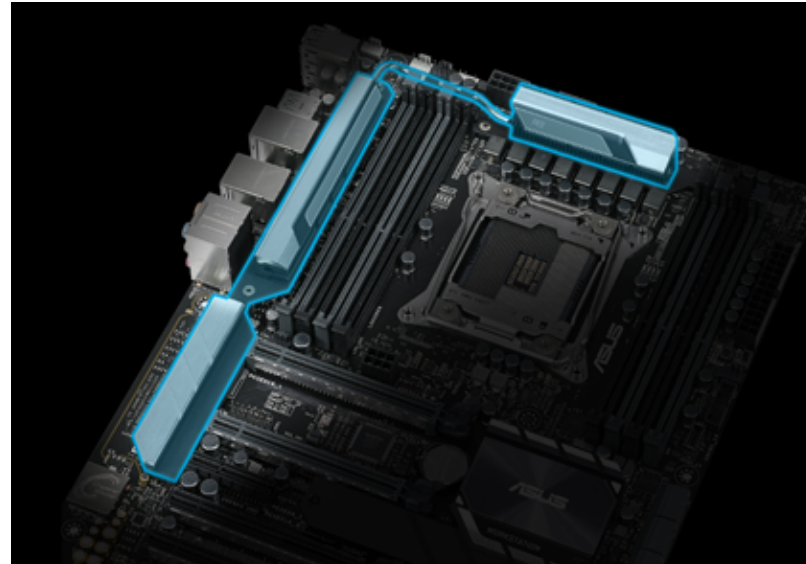
Dual onboard M.2 & M.2 heatsink

WS C422 PRO/SE features dual onboard M.2 slots that support up to 22110-length SSDs and operate at PCIe Gen 3 x4 link speeds to provide an abundant 32Gbps of bandwidth for up to 5.3X faster performance than traditional SSDs. Both slots sit below the C422 chipset and are covered by a heatsink that reduces drive temperatures by as much as 20°C, ensuring peak performance under all scenarios. The revolutionary specification that lets your SSDs scream at top speed. Simply attach your choice of drive and experience data-transfer speeds of up to 32Gbps — and free up a PCIe slot for another expansion card.

Ultra-efficient VRM Heatsink

Designed for the powerful Intel® Xeon® scalable processor with up to 28 cores, WS C422 PRO/SE features a capable thermal design to ensure maximum performance with no CPU throttling. Consisting of an ultra-efficient VRM heatsink with a metal fin array design that maximizes surface area for heat dissipation, plus two additional heatsinks and a connecting heatpipe to further increase cooling performance, this innovative thermal design ensures WS C422 PRO/SE is always ready to handle any

task, no matter how demanding.



10Gbps USB 3.1 onboard

With backward-compatible USB 3.1 Type-A and reversible USB 3.1 Type-C ports, you'll experience ultimate connection flexibility and data-transfer speeds of up to 10Gbps — twice as fast as USB 3.0.

- Front panel : 2 x USB 3.1 (Type A and Type C)
- Rear panel : 1 x USB 3.1

Supporting ThunderboltEX 3 card

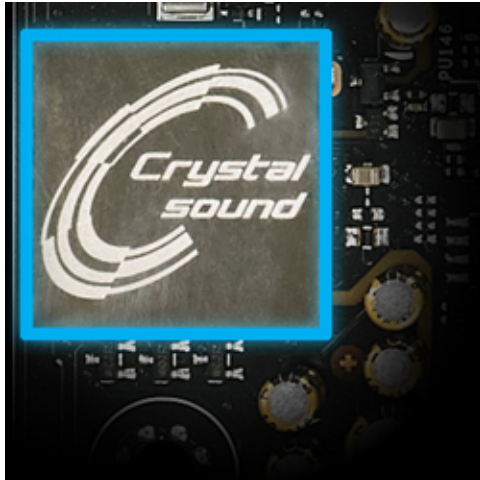
WS C422 PRO/SE provides full support for a ThunderboltEX 3 card. An Intel®-certified Thunderbolt™ 3 add-on card enables breathtaking bi-directional speeds of up to 40Gbps through a single cable — up to 4X faster than other PC data-transfer protocols. Beyond sheer bandwidth, Thunderbolt™ 3 supports daisy-chaining up to six devices, utilizes a Type-C reversible connector for compatibility with the latest USB 3.1 Gen 2 Type-C devices, and meets USB Power Delivery specifications for fast, high-power charging of up to 36W. [Learn More](#)



Intel® VROC

Unleash the WS C422 PRO/SE Virtual RAID on CPU (VROC) with the addition of an ASUS Hyper M.2 X16 card*, which allows you to attach up to four PCIe®3.0 x16 M.2 drives — for a total bandwidth of up to 128Gbps. PCH-based RAID arrays are bottlenecked by the 32Gbps limit of the DMI bus. VROC obliterates that limit by allowing you to utilize CPU PCIe lanes to configure a bootable RAID array that can transfer data at insane speeds.

*ASUS Hyper M.2 X16 card available separately for purchase.



Outstanding Audio for Content Creator

WS C422 PRO/SE has a unique audio codec designed in close collaboration with Realtek®. The Realtek®S1220A features an unprecedented 120dB signal-to-noise ratio for the stereo line-out and an 113dB SNR for the line-in, providing pristine audio quality.

NOISE ISOLATION

Audio shielding

Ensures precision analog/digital separation and greatly reduced multi-lateral interference.

Separate layer for left and right tracks

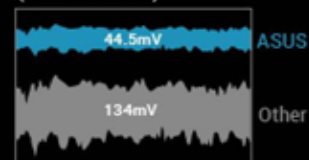
Ensures that both channels deliver consistent, equal quality.

CLEAN POWER

Power pre-regulator

Reduces power-input noise to ensure consistent performance.

Test of input power noise
(Lower is better)



AUDIO ENJOYMENT

De-pop circuit

Reduces start-up popping noise to all audio outputs.

Audio amplifier

Produces the highest quality sound for headphone and speakers.

EMI protection

Prevents electrical noise to preserve audio quality.

Premium Japanese-made audio capacitors

Provides warm, natural and immersive sound with exceptional clarity and fidelity.



Immersive headphone audio

DTS Headphone:X™

Offers 3D surround-sound technology for incredibly rich audio with all types of headphones.



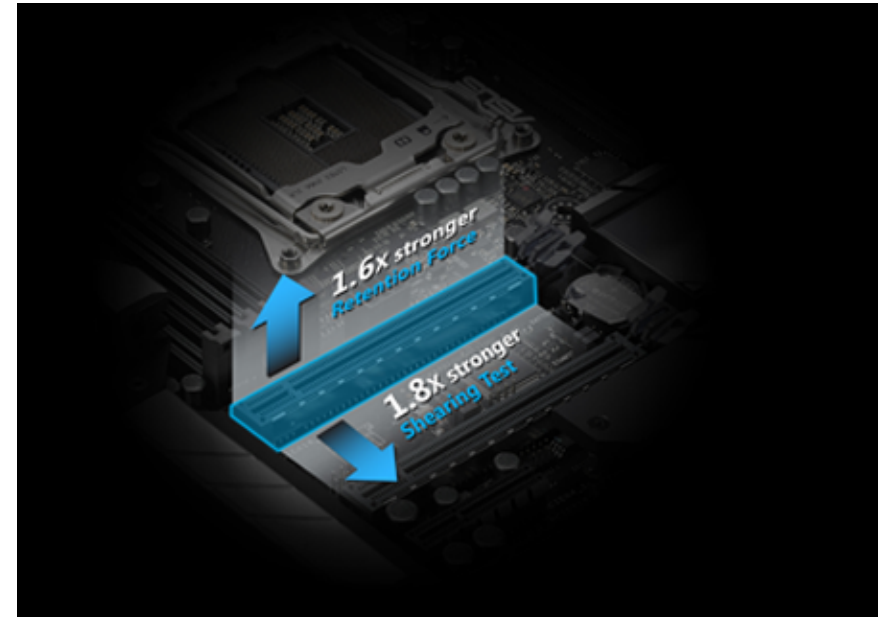
Dual Intel® server-class Gigabit LAN

For more reliable networking, WS C422 PRO/SE features the latest server-class dual Intel® Gigabit LAN ensuring lower CPU utilization and temperatures outstanding performance as well as better support for diverse operating systems. The dual Ethernet ports also support teaming which combines the network links to provide higher throughput or redundancy in case of failure.

ASUS SafeSlot

SafeSlot is the PCIe slot reinvented by ASUS and engineered to provide superior retention and shearing resistance. Manufactured in a single step using a new insert-molding process, SafeSlot integrates the slot with fortifying metal for an inherently stronger slot, which is then firmly anchored to the PCB

through additional solder points.



Similar Products



P9D WS

Optimized & Certified for Professionals



P9X79-E WS

The Most Scalable 4-Way



x16 Links Graphic Power

CPU Intel® Socket 2066 Processors

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Max Technology 2.0

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

Chipset Build in Intel® C422

Memory 8 x DIMM, Max. 512GB, DDR4 2666/2400/2133 MHz RDIMM, LR-DIMM

Memory *¹

Quad Channel Memory Architecture

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

Supports AMD 3-Way CrossFireX™ Technology

Expansion Slots 48-Lane CPU-

2 x PCIe 3.0 x16 (x16 mode)

2 x PCIe 3.0 x16 (Single at x16, dual at x8/x8)

1 x PCIe 3.0 x4 (x4 mode)

Storage 1 x M.2 x4 Socket 3*², with M key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)

1 x M.2 x4 Socket 3³, with M key, type 2242/2260/2280 storage devices support (both SATA & PCIE mode)

1 x U.2 connector^{*2}

Support Raid 0, 1, 10

Intel® Rapid Storage Technology Enterprise supports

Intel® Virtual RAID (VROC) support for CPU RAID

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

Audio Realtek® 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
- High quality 120 dB SNR stereo playback output (Line-out at rear) and 113 dB SNR recording input (Line-in)
- Supports up to 32-Bit/192kHz playback ^{*4}

Audio Feature :

- DTS Connect
- DTS Headphone:X
- Optical S/PDIF out port(s) at back panel
- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
- 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
- Separate layer for left and right track, ensuring both sound deliver equal quality

USB PortsIntel® C422 Chipset :

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

Intel® C422 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 3.1 Gen 2 front panel connector port(s)

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

AURA :

- Aura RGB Strip Headers
- Aura Lighting Effects Synchronization with compatible ASUS ROG devices
- Aura Addressable Strip Header(s)

ASUS Exclusive Features :

- MemOK!
- Ai Charger+
- Onboard Button : Power/Reset
- Turbo LAN

DIGI + Power Control :

- CPU Power: Digital 8-phase power design

DIGI + Power Control :

- DRAM Power: Digital 2-phase power design

ASUS Quiet Thermal Solution :

- Stylish Fanless Design with M.2 Heat-sink solution

ASUS EZ DIY :

- ASUS USB BIOS Flashback

ASUS Q-Design :

- ASUS Q-Shield
- ASUS Q-Code
- 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)

Asus Control Center (ACC) IT management software supported

Intel® Virtual RAID on CPU (VROC) ready

Thunderbolt 3 support

Back I/O Ports 2 x LAN (RJ45) port(s)
2 x USB 3.1 Gen 2 Type-A + USB Type-C™,
4 x USB 3.1 Gen 1 (blue) ,
4 x USB 2.0 (one port can be switched to USB BIOS Flashback)
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 Headers
1 x USB 3.1 Gen 1(up to 5Gbps) 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)
1 x M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 4 mode)
1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (PCIE 3.0 x 4 mode)

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 5-pin EXT_FAN(Extension Fan) connector
1 x MemOK! button(s)
1 x Thermal sensor connector(s)
1 x Power-on button(s)
1 x Reset button(s)
1 x Clear CMOS button(s)
1 x U.2 connector
3 x System panel connector
1 x Front fan
1 x Rear fan
1 x COM port header
1 x Aspeed VGA header
1 x USB 3.1 Gen 2 front panel connector
1 x CPU_OV jumper
1 x PUMP Fan connector
1x 6-pin ATX 12V Power connector

BIOSCrashFree BIOS 3

EZ Flash3

F11 EZ Tuning Wizard

ASUS UEFI BIOS EZ Mode

Multi-language BIOS

ATX Form Factor

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

Weight Color Box(3-in-1)

Net Weight: 4.86kg

Gross Weight: 7.49kg

Bulk Pack(5-in-1)

Net Weight: 7.2kg

Gross Weight: 8.9kg

Note*1 Memory capacity supported depends on both CPU installed and Memory

*2 Bandwidth is shared between M.2_2 and U.2.

*3 SATA Bandwidth is shared between M.2_1 and SATA6G_1

*4 Due to limitations in HAD bandwidth, 32-Bit/192kHz is not supported for 8-channel audio. 32-Bit/192kHz is only available under Windows® 10