

WS C422 SAGE/10G

CPU Intel® Socket 2066 Processors

Supports Intel® Virtual RAID on CPU (VROC)

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Technology 2.0

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

Chipset 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® 4-Way SLI™ Technology
Supports AMD 4-Way CrossFireX Technology

Expansion Slots Intel® C422 Chipset

7 x PCIe 3.0 x16 (single x16 or dual x16/x16 or triple x16/x16/x16 or quad x16/x16/x16/x16 or seven x16/x8/x8/x8/x8/x8/x8,) *2

Storage Intel® C422 Chipset : *3

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 storage devices support (PCIe 3.0 x 4 mode)

8 x SATA 6Gb/s port(s)

2 x U.2 connector

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology Enterprise supports

Intel® Virtual RAID (VROC) support for CPU RAID

LAN Intel® X550-AT2

2 x 10 Gigabit LAN

AudioRealtek® ALC S1220A 7.1-Channel High Definition Audio CODEC

- 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 (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)

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 port(s) (1 at mid-board)

Workstation FeatureASUS Control Center (ACC)

Special FeaturesFan 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

AURA :

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

ASUS Exclusive Features :

- MemOK!
- Ai Charger+

- Onboard Button : Power/Reset
- File Transfer

DIGI + Power Control :

- CPU Power: Digital 8-phase power design

DIGI + Power Control :

- DRAM Power: Digital 2-phase power design

ASUS EZ DIY :

- ASUS USB BIOS Flashback®
- ASUS UEFI BIOS EZ Mode

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

Turbo App

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

ASMedia USB 3.1 Gen 2 Controller supports Multiple-Ins function

Thunderbolt 3 support

Operating System Support

Windows® 10 64-bit

Back I/O Ports

- 2 x LAN (RJ45) port(s)
- 1 x USB 3.1 Gen 2 (teal blue) Type-A,
- 1 x USB 3.1 Gen 2 (black) Type-C
- 1 x Optical S/PDIF out
- 1 x 8-channel Audio I/O
- 4 x USB 3.1 Gen 1 (blue)

Internal I/O Ports

- 1 x Aura Addressable Strip Header(s)
- 2 x U.2 port
- 1 x AAFP connector
- 1 x Aura RGB Strip Header
- 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 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 storage devices support (PCIe 3.0 x 4 mode)
- 1 x TPM header
- 1 x COM port(s) connector(s)
- 8 x SATA 6Gb/s connector(s)
- 1 x VROC_HW_Key
- 1 x CPU Fan connector(s)
- 1 x CPU OPT Fan connector(s)

- 2 x Chassis Fan connector(s)
- 1 x AIO_PUMP connector
- 1 x Thunderbolt header(s)
- 1 x 24-pin EATX Power connector(s)
- 1 x 6-pin ATX Power connector
- 2 x 8-pin ATX 12V Power connector(s)
- 1 x EZ XMP switch
- 1 x 5-pin EXT_FAN(Extension Fan) connector
- 1 x Power-on button(s)
- 1 x Reset button(s)
- 1 x Clear CMOS button(s)
- 1 x USB BIOS Flashback[®] button(s)
- 1 x Water Pump header (4-pin)
- 1 x System panel connector
- 1 x Thermal sensor connector
- 1 x USB 3.1 Gen 2 front panel connector
- 1 x CPU_OV jumper
- 1 x MemOK! Button
- 1 x M.2 Fan Header

Accessories

User's manual

Addressable LED extension cable

1 x Vertical M.2 bracket set

I/O Shield

1 x COM port cable(s)

8 x SATA 6Gb/s cable(s)

1 x M.2 screws

1 x Supporting DVD

1 x 3-Way SLI bridge(s)

1 x 4-Way SLI bridge(s)

1 x SLI HB BRIDGE(2-WAY-M)

1 x Q-Connector

Form Factor

CEB Form Factor

12 inch x 10.5 inch (30.5 cm x 26.7 cm)

Weight

Color Box(3-in-1)

Net Weight: 4.28kg

Gross Weight: 6.48kg

Bulk Pack(5-in-1)

Net Weight: 6.83kg

Gross Weight: 9.91kg

Environment

Operation temperature: 10°C ~ 35°C

Non operation temperature: -40°C ~ 70°C

Non operation humidity: 20% ~ 90% (Non condensing)

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

*2 Please refer to the block diagrams in the Appendix for more details in the manual.

*3 Intel® VROC is supported via RSTe, and Intel® VROC_HW_key. VROC_HW_Key is purchased separately. NVMe RAID type and function will depend on the Intel® VROC_HW_key installed.

*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.

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