

- CPU

AMD AM4 Socket AMD Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7<sup>th</sup> Generation A-series/Athlon X4 Processors  
Supports CPU up to 8 cores

\* Refer to [www.asus.com](http://www.asus.com) for CPU support list

- Chipset

AMD X470

- Memory

**AMD Ryzen™ 2nd Generation Processors**

4 x DIMM, Max. 64GB, DDR4

3600(O.C.)/3466(O.C.)/3400(O.C.)/3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory \*

**AMD Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors**

4 x DIMM, Max. 64GB, DDR4

3400(O.C.)/3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory \*

**AMD 7th Generation A-Series/Athlon X4 Processors**

4 x DIMM, Max. 64GB, DDR4 2400/2133 MHz Un-buffered Memory

Dual Channel Memory Architecture

\* Refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists).

- Graphic

Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ 7th Generation A-Series APU

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 NVIDIA® 2-Way SLI™ Technology

Supports AMD 3-Way CrossFireX™ Technology

- Expansion Slots

**AMD Ryzen™ 2nd Generation/ Ryzen™ 1st Generation Processors**

2 x PCIe 3.0 x16 (x16 or dual x8)

**AMD Ryzen™ with Radeon™ Vega Graphics /7th Generation A-Series/Athlon X4**

## Processors

1 x PCIe 3.0 x16 (x8 mode)

### AMD X470 chipset

1 x PCIe 2.0 x16 (max at x4 mode) \*1

3 x PCIe 2.0 x1

- Storage

### AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors :

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

### AMD 7th Generation A-series/Athlon™ Processors :

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

### AMD X470 chipset :

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

6 x SATA 6Gb/s port(s),

Support Raid 0, 1, 10

- LAN

Intel® I211-AT, 1 x Gigabit LAN Controller(s)

Anti-surge LANGuard

ROG GameFirst Technology

- Audio

SupremeFX 8-Channel High Definition Audio CODEC S1220A

- Dual OP Amplifiers

- Impedance sense for front and rear headphone outputs

- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking

- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input

- SupremeFX Shielding Technology

- Supports up to 32-Bit/192kHz playback \*3

### Audio Feature :

- Optical S/PDIF out port(s) at back panel

- Sonic Radar III

- Sonic Studio III + Sonic Studio Link

- USB Ports

### AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation/7th Generation A-Series/Athlon X4 Processors :

4 x USB 3.1 Gen 1 port(s) (4 at back panel, blue)

**AMD X470 chipset :**

1 x USB 3.1 Gen 2 front panel connector port(s)

**AMD X470 chipset :**

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

**AMD X470 chipset :**

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

**ASMedia® USB 3.1 Gen 2 controller :**

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

- ROG Exclusive Features

**ROG RAMCache II**

**ROG CPU-Z**

**Overwolf**

**GameFirst IV**

- Special Features

**5-Way Optimization by Dual Intelligent Processors 5**

- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 4, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.

**TPU**

- Auto Tuning, TurboV, GPU Boost

**Gamer's Guardian:**

- DRAM Overcurrent Protection
- Stainless Steel Back I/O
- Highly Durable Components
- DIGI+ VRM
- SafeSlot
- ESD Guards on LAN, Audio, and USB ports

**ASUS EPU :**

- EPU

**AURA :**

- Aura Lighting Control

**ASUS Exclusive Features :**

- AI Suite 3
- Ai Charger

**ASUS EZ DIY :**

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3

**ASUS Q-Design :**

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

**Gaming Aesthetics :**  
- AURA-RGB Lighting

- Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)  
1 x DisplayPort  
1 x HDMI  
5 x USB 3.1 Gen 1 Type-A,  
1 x Optical S/PDIF out  
5 x Audio jack(s)  
2 x USB 3.1 Gen 2 (red)Type-A  
1 x USB 3.1 (black)USB Type-C™  
Anti-surge LAN (RJ45) port

- Internal I/O Ports

1 x Aura Addressable Strip Header(s)  
2 x RGB Header(s)  
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 (SATA & PCIE 3.0 x 4 mode)  
1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 X2 mode)  
1 x TPM connector(s)  
6 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 AIO\_PUMP connector  
1 x W\_PUMP+ connector  
1 x 24-pin EATX Power connector(s)  
1 x 8-pin ATX 12V Power connector(s)  
1 x Front panel audio connector(s) (AAFP)  
1 x Thermal sensor connector(s)  
1 x Clear CMOS jumper(s)  
1 x System panel connector  
1 x COM port header  
1 x USB 3.1 Gen 2 front panel connector  
1 x USB 3.1 Gen 1 connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s)

- Accessories

User's manual  
4 x SATA 6Gb/s cable(s)  
1 x M.2 Screw Package

1 x Supporting DVD  
1 x Strix door hanger  
1 x SLI HB BRIDGE(2-WAY-M)  
1 x ROG Strix stickers  
1 x Cable ties pack(s)  
1 x Extension Cable for RGB strips (80 cm)  
1 x Extension cable for Addressable LED

- BIOS

256 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.0, Multi-language BIOS,  
ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log,  
F12 PrintScreen, Secure Erase, User Profile, F4 AURA ON/OFF, F9 Search, and ASUS DRAM SPD (Serial Presence Detect) memory information.

- Manageability

WOL, WOR, PXE

- Support Disc

Drivers  
ASUS Utilities  
Anti-virus software (OEM version)

- Operating System

Windows® 10 64-bit

- Form Factor

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

- Note

\*1 PCIeX16\_3 slot shares bandwidth with PCIeX1\_1 and PCIeX1\_3.

\*2 M.2\_2 socket shares PCIe clock with PCIeX1\_1, when PCIeX1\_1 or PCIeX1\_3 are occupied, M.2\_2 only can support SATA mode.

\*3 Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.



- 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.
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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.