

- CPU

AM4 Socket:

1. AMD Ryzen™ processor

(Please refer "CPU Support List" for more information.)

- Chipset

1. AMD X470

- Memory

1. 4 x DDR4 DIMM sockets supporting up to 64 GB of system memory
2. Dual channel memory architecture
3. Support for DDR4 3600+(O.C.) / 3400(O.C.) / 3333(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933 / 2667 / 2400 / 2133 MHz memory modules
4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
6. Support for Extreme Memory Profile (XMP) memory modules

(Please refer "Memory Support List" for more information.)

- Audio

1. Realtek® ALC1220-VB codec
2. ES9018Q2C chip
3. High Definition Audio
4. 2/4/5.1/7.1-channel
5. Support for S/PDIF Out

- LAN

1. Intel® GbE LAN chip (10/100/1000 Mbit)

- Wireless Communication module

1. Wi-Fi 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band
2. BLUETOOTH 5
3. Support for 11ac 160MHz wireless standard and up to 1.73 Gbps data rate
 - * Actual data rate may vary depending on environment and equipment.
 - * Intel WIFI driver only support for Win10-64bit

- Expansion Slots

1. 1 x PCI Express x16 slot, running at x16 (PCIEX16)
 - * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.

2. 1 x PCI Express x16 slot, running at x8 (PCIEX8)
* The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When the PCIEX8 slot is populated, the PCIEX16 slot operates at up to x8 mode.
(The PCIEX16 and PCIEX8 slots conform to PCI Express 3.0 standard.)
3. 1 x PCI Express x16 slot, running at x4 (PCIEX4)
* The PCIEX4 slot becomes unavailable when a device is installed in the M2B_SOCKET connector.
4. 2 x PCI Express x1 slots
(The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)

- Storage Interface

1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support) (M2A_SOCKET)
2. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 PCIe 2.0 x4/x2 SSD support)

(M2B_SOCKET)
3. 6 x SATA 6Gb/s connectors
4. Support for RAID 0, RAID 1, and RAID 10

- Multi-Graphics Technology

1. Support for NVIDIA® Quad-GPU SLI™ and 2-Way NVIDIA® SLI™ technologies
2. Support for AMD Quad-GPU CrossFire™ and 2-Way AMD CrossFire™ technologies

- USB

ASMedia® USB 3.1 Gen 2 Controller:

1. 1 x USB Type-C™ port on the back panel, with USB 3.1 Gen 2 support
2. 1 x USB 3.1 Gen 2 Type-A port (red) on the back panel

Chipset:

1. 1 x USB Type-C™ port with USB 3.1 Gen 2 support, available through the internal USB header
2. 6 x USB 3.1 Gen 1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)
3. 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)

CPU:

1. 4 x USB 3.1 Gen 1 ports on the back panel

- Internal I/O Connectors

1. 1 x 24-pin ATX main power connector
2. 1 x 8-pin ATX 12V power connector
3. 1 x 4-pin ATX 12V power connector
4. 1 x CPU fan header
5. 1 x water cooling CPU fan header
6. 4 x system fan headers
7. 2 x system fan/water cooling pump headers
8. 1 x CPU cooler LED strip/RGB LED strip header
9. 2 x digital LED strip headers
10. 2 x digital LED strip power select jumpers
11. 2 x RGB (RGBW) LED strip headers
12. 2 x M.2 Socket 3 connectors
13. 6 x SATA 6Gb/s connectors
14. 1 x front panel header
15. 1 x front panel audio header
16. 1 x S/PDIF Out header
17. 1 x USB Type-C™ port, with USB 3.1 Gen 2 support
18. 2 x USB 3.1 Gen 1 headers
19. 2 x USB 2.0/1.1 headers
20. 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)
21. 1 x Clear CMOS jumper
22. 1 x OC button
23. 1 x BIOS switch
24. 1 x DualBIOS™ switch
25. 2 x temperature sensor headers

- Back Panel Connectors

1. 1 x power/reset button
2. 1 x Clear CMOS button
3. 2 x MMCX antenna connectors (2T2R)
4. 6 x USB 3.1 Gen 1 ports
5. 1 x USB Type-C™ port, with USB 3.1 Gen 2 support
6. 1 x USB 3.1 Gen 2 Type-A port (red)
7. 2 x USB 2.0/1.1 ports
8. 1 x RJ-45 port
9. 1 x optical S/PDIF Out connector
10. 5 x audio jacks

- I/O Controller

1. iTE® I/O Controller Chip

- H/W Monitoring

1. Voltage detection
2. Temperature detection
3. Fan speed detection
4. Water cooling flow rate detection
5. Overheating warning
6. Fan fail warning
7. Fan speed control

* Whether the fan (pump) speed control function is supported will depend on the cooler (pump) you install.

- BIOS

1. 2 x 128 Mbit flash
2. Use of licensed AMI UEFI BIOS
3. Support for DualBIOS™
4. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

- Unique Features

1. Support for APP Center

* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.

3D OSD

@BIOS

AutoGreen

Cloud Station

EasyTune

Fast Boot

Game Boost

ON/OFF Charge

RGB Fusion

Smart Backup

Smart Keyboard

Smart TimeLock

Smart HUD

System Information Viewer

USB Blocker

USB DAC-UP 2

V-Tuner

2. Support for Q-Flash
3. Support for Xpress Install

- Bundle Software

1. Norton® Internet Security (OEM version)
2. cFosSpeed

3. XSplit Gamecaster + Broadcaster (12 months license)