

## Specifications:

### CPU

AMD Socket AM4, support for : Supports AMD Ryzen 5000 Series/ Ryzen 5000 G-Series/ Ryzen 4000 G-Series/ 3rd Gen Ryzen/ 2nd Gen Ryzen/ 2nd Gen Ryzen with Radeon Vega Graphics/ Ryzen with Radeon Vega Graphics Processors

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

### Chipset

AMD X570

### Memory

2 x DDR4 DIMM sockets supporting up to 64 GB (32 GB single DIMM capacity) of system memory

Dual channel memory architecture

Support for DDR4 5300(O.C.) / 5200(O.C.) / 5100(O.C.) / 4800(O.C.) / 4600(O.C.) / 4400(O.C.) / 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3200(O.C.) / 2933 / 2667 / 2400 / 2133 MHz memory modules

Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules\*

\* ECC memory (ECC mode) support varies by CPU

Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules

Support for Extreme Memory Profile (XMP) memory modules

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

### Onboard Graphics

Integrated Graphics Processor:

1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz

\* Support for DisplayPort 1.2 version.

2 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz

\* Support for HDMI 2.0 version, HDCP 2.2, and HDR.

Support for up to 3 displays at the same time

Maximum shared memory of 16 GB

### Audio

Realtek ALC1220-VB codec

\* The back panel line out jack supports DSD audio.

## High Definition Audio

2/4/5.1/7.1-channel

\* To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.

## LAN

Intel GbE LAN chip (10/100/1000 Mbit)

## Wireless Communication module

Intel Wi-Fi 6 AX200

Wi-Fi 802.11a/b/g/n/ac/ax, supporting 2.4/5 GHz Dual-Band

## BLUETOOTH 5.0

Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate

\* Actual data rate may vary depending on environment and equipment.

## Expansion Slots

Integrated in the CPU (PCIEX16):

AMD Ryzen 5000 Series/ 3rd Gen Ryzen Processors:

1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 (PCIEX16)

AMD Ryzen 5000 G-Series/ Ryzen 4000 G-Series/ 2nd Gen Ryzen Processors:

1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x16 (PCIEX16)

2nd Generation AMD Ryzen with Radeon Vega Graphics processors/AMD Ryzen with Radeon Vega Graphics processors:

1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x8 (PCIEX16)

Integrated in the Chipset:

1 x M.2 Socket 1 connector for the wireless communication module (M2\_WIFI)

## Storage Interface

Integrated in the CPU (M2A\_SOCKET):

AMD Ryzen 5000 Series/ 3rd Gen Ryzen Processors:

1 x M.2 connector (Socket 3, M key, type 2260/2280 SATA and PCIe 4.0 x4/x2 SSD support)

AMD Ryzen 5000 G-Series/ Ryzen 4000 G-Series/ 2nd Gen Ryzen/ 2nd Gen Ryzen with Radeon Vega Graphics/ Ryzen with Radeon Vega Graphics Processors:

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

Integrated in the Chipset (M2B\_SOCKET):

1 x M.2 connector on the back of the motherboard (Socket 3, M key, type 2260/2280 SATA and PCIe 4.0 x4/x2 SSD support)

4 x SATA 6Gb/s connectors

Support for RAID 0, RAID 1, and RAID 10

USB

Integrated in the CPU:

4 x USB 3.2 Gen 1 ports on the back panel

Integrated in the Chipset:

1 x USB Type-C port on the back panel, with USB 3.2 Gen 2 support

1 x USB 3.2 Gen 2 Type-A ports (red) on the back panel

2 x USB 3.2 Gen 1 ports available through the internal USB header

2 x USB 2.0/1.1 ports available through the internal USB header

Internal I/O Connectors

1 x 24-pin ATX main power connector

1 x 8-pin ATX 12V power connector

1 x CPU fan header

1 x system fan header

1 x addressable LED strip header

1 x RGB LED strip header

4 x SATA 6Gb/s connectors

2 x M.2 Socket 3 connectors

1 x front panel header

1 x front panel audio header

1 x speaker header

1 x USB 3.2 Gen 1 header

1 x USB 2.0/1.1 header

1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0\_S module only)

1 x Clear CMOS jumper

\* All fan headers are subject to support AIO\_Pump, Pump and high performance fan with the capability of delivering up to 2A/12V @ 24W.

#### Back Panel Connectors

1 x DisplayPort

2 x HDMI ports

1 x USB 3.2 Gen 2 Type-A port (red)

4 x USB 3.2 Gen 1 ports

1 x USB Type-C™ port, with USB 3.2 Gen 2 support

1 x Q-Flash Plus button

1 x RJ-45 port

2 x SMA antenna connectors (2T2R)

3 x audio jacks

#### I/O Controller

iTE® I/O Controller Chip

#### H/W Monitoring

Voltage detection

Temperature detection

Fan speed detection

Overheating warning

Fan fail warning

Fan speed control

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

#### BIOS

1 x 128 Mbit flash

Use of licensed AMI UEFI BIOS

PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

#### Unique Features

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.

@BIOS

EasyTune

Fast Boot

Game Boost

ON/OFF Charge

RGB Fusion

Smart Backup

System Information Viewer

Support for Q-Flash Plus

Support for Q-Flash

Support for Xpress Install

Bundled Software

Norton Internet Security (OEM version)

cFosSpeed

XSplit Gamecaster + Broadcaster (12 months license)

Operating System

Support for Windows 10 64-bit

Form Factor

Mini-ITX Form Factor; 17.0cm x 17.0cm