

## CPU

AMD Socket AM4, support for: AMD Ryzen™ 5000 Series/ 3rd Gen Ryzen™ and 3rd Gen Ryzen™ with Radeon™ Graphics Processors

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

## Chipset

AMD B550

## Memory

4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory

3rd Gen AMD Ryzen™ Processors:

Support for DDR4 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules

3rd Gen AMD Ryzen™ with Radeon™ Graphics processors:

Support for DDR4 4733(O.C.) / 4600(O.C.) / 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules

Dual channel memory architecture

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

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 in the 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors:

1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz

\* The DVI-D port does not support D-Sub connection by adapter.

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

\* Support for HDMI 2.1 version, HDCP 2.3, and HDR.

Maximum shared memory of 16 GB

## Audio

Realtek® ALC887 codec

High Definition Audio

2/4/5.1/7.1-channel

\* To configure 7.1-channel audio, you need to open the audio software and select Device advanced settings > Playback Device to change the default setting first. Please visit GIGABYTE's website for details on configuring the audio software.

## LAN

Realtek® GbE LAN chip (1000 Mbit/100 Mbit)

## Expansion Slots

1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:

3rd Generation AMD Ryzen™ processors support PCIe 4.0x16 mode

3rd Generation AMD Ryzen™ with Radeon™ Graphics processors support PCIe 3.0x16 mode

\* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.

1 x PCI Express x16 slot (PCIEX2), integrated in the Chipset:

Supporting PCIe 3.0 x2 mode

3 x PCI Express x1 slots (PCIEX1\_1, PCIEX1\_2, PCIEX1\_3), integrated in the Chipset:

Supporting PCIe 3.0 x1 mode

## Storage Interface

1 x M.2 connector (M2A\_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:

3rd Generation AMD Ryzen™ processors support SATA and PCIe 4.0 x4/x2 SSDs

3rd Generation AMD Ryzen™ with Radeon™ Graphics processors support SATA and PCIe 3.0 x4/x2 SSDs

1 x M.2 connector (M2B\_SB), integrated in the Chipset, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:

Supporting SATA and PCIe 3.0 x4/x2 SSDs

4 x SATA 6Gb/s connectors, integrated in the Chipset:

Support for RAID 0, RAID 1, and RAID 10

## USB

Chipset:

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

3 x USB 3.2 Gen 1 ports on the back panel

Chipset:

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

6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)

#### 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 water cooling CPU fan header

3 x system fan headers

2 x addressable LED strip headers

2 x RGB LED strip headers

1 x CPU cooler LED strip/RGB LED strip header

2 x M.2 Socket 3 connectors

4 x SATA 6Gb/s connectors

1 x front panel header

1 x front panel audio header

1 x USB 3.2 Gen 1 header

2 x USB 2.0/1.1 headers

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

1 x Clear CMOS jumper

#### Back Panel Connectors

2 x USB 2.0/1.1 ports

1 x PS/2 keyboard/mouse port

1 x DVI-D port

1 x HDMI port

3 x USB 3.2 Gen 1 ports

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

1 x Q-Flash Plus button

1 x RJ-45 port

3 x audio jacks

I/O Controller

ITE® I/O Controller Chip

H/W Monitoring

Voltage detection

Temperature detection

Fan speed detection

Water cooling flow rate 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 256 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)

Realtek® 8118 Gaming LAN Bandwidth Control Utility

Operating System

Support for Windows 10 64-bit

Form Factor

ATX Form Factor; 30.5cm x 24.4cm