

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

AMDA520

Memory

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

AMD Ryzen™ 5000 series processors:

Support for DDR4 4266(O.C.) / 4000(O.C.) / 3866(O.C.) / 3800(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3333(O.C.) / 3300(O.C.) / 3200 / 2933 / 2667 / 2400 / 2133 MHz memory modules

3rd Gen AMD Ryzen™ Processors:

Support for DDR4 5100(O.C.) / 5000(O.C.) / 4866(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

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

Support for DDR4 5100(O.C.) / 5000(O.C.) / 4866(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® Audio 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

CPU:

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

Chipset:

2 x PCI Express x1 slots, supporting PCIe 3.0

Storage Interface

CPU:

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

Chipset:

4 x SATA 6Gb/s connectors

Support for RAID 0, RAID 1, and RAID 10

USB

CPU:

4 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

2 x system fan headers
1 x addressable LED strip header
1 x RGB LED strip header
1 x M.2 Socket 3 connector
4 x SATA 6Gb/s connectors
1 x front panel header
1 x front panel audio header
1 x speaker 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 serial port header
1 x chassis intrusion header
1 x Clear CMOS jumper

Back Panel Connectors

1 x PS/2 keyboard/mouse port
1 x DVI-D port
1 x HDMI port
4 x USB 3.2 Gen 1 ports
2 x USB 2.0/1.1 ports
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

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)

Realtek® 8118 Gaming LAN Bandwidth Control Utility

Operating System

Support for Windows 10 64-bit

Form Factor

Micro ATX Form Factor; 24.4cm x 20.5cm