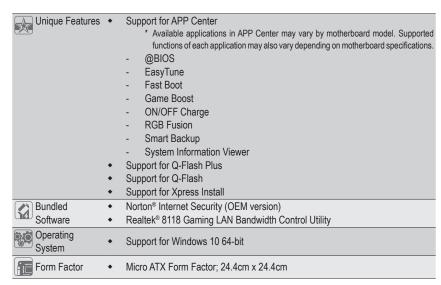
1-2 Product Specifications

CPU	 AMD Socket AM4, support for: 3rd Generation AMD Ryzen™ processors/ 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors (Go to GIGABYTE's website for the latest CPU support list.)
Chipset	◆ AMD A520
Memory	4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory Support for DDR4 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 (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
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 DisplayPort, supporting a maximum resolution of 5120x2880@60 Hz * Support for DisplayPort 1.4 version, HDCP 2.3, and HDR. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.1 version, HDCP 2.3, and HDR. Support for up to 3 displays at the same time 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.
E_ LAN	• Realtek® GbE LAN chip (1000 Mbit/100 Mbit)
Wireless Communication Module (Note)	Intel® Wi-Fi 3168 WIFI 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band BLUETOOTH 4.2 Support for 11ac wireless standard and up to 433 Mbps data rate Actual data rate may vary depending on environment and equipment.
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 (PCIEX1_1, PCIEX1_2)
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

(Note) Only for the A520M DS3H AC.

USB 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 4 x USB 2.0/1.1 ports (2 ports on the back panel, 2 ports available through the internal USB header)
Internal 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 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 serial port header 1 x Clear CMOS jumper 1 x Q-Flash Plus button
Back Panel Connectors	 1 x PS/2 keyboard/mouse port 1 x DVI-D port 1 x DisplayPort 1 x HDMI port 2 x SMA antenna connectors (1T1R) (Note) 4 x USB 3.2 Gen 1 ports 2 x USB 2.0/1.1 ports 1 x RJ-45 port 3 x audio jacks
I/O Controller Hardware Monitor	 iTE® I/O Controller Chip 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

(Note) Only for the A520M DS3H AC.



* GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice.

A520M DS3H AC



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Please visit GIGABYTE's website for support lists of CPU, memory modules, SSDs, and M.2 devices.



Please visit the **Support\Utility List** page on GIGABYTE's website to download the latest version of apps.