



















## 1-2 Product Specifications

 CPU	<ul style="list-style-type: none"> <li>AMD Socket AM4, support for: <ul style="list-style-type: none"> <li>3rd Generation AMD Ryzen™ processors/</li> <li>3rd Generation AMD Ryzen™ with Radeon™ Graphics processors</li> </ul> (Go to GIGABYTE's website for the latest CPU support list.) </li> </ul>
 Chipset	<ul style="list-style-type: none"> <li>AMD A520</li> </ul>
 Memory	<ul style="list-style-type: none"> <li>2 x DDR4 DIMM sockets supporting up to 64 GB (32 GB single DIMM capacity) of system memory</li> <li>Support for DDR4 3200/2933/2667/2400/2133 MHz memory modules</li> <li>Dual channel memory architecture</li> <li>Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules</li> <li>Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules</li> <li>Support for Extreme Memory Profile (XMP) memory modules</li> </ul> (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
 Onboard Graphics	<ul style="list-style-type: none"> <li>Integrated in the 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors: <ul style="list-style-type: none"> <li>1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz</li> <li>1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz <ul style="list-style-type: none"> <li>* The DVI-D port does not support D-Sub connection by adapter.</li> </ul> </li> <li>1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz <ul style="list-style-type: none"> <li>* Support for HDMI 2.1 version, HDCP 2.3, and HDR.</li> </ul> </li> </ul> </li> <li>Support for up to 3 displays at the same time</li> <li>Maximum shared memory of 16 GB</li> </ul>
 Audio	<ul style="list-style-type: none"> <li>Realtek® audio CODEC</li> <li>High Definition Audio</li> <li>2/4/5.1/7.1-channel <ul style="list-style-type: none"> <li>* To configure 7.1-channel audio, you need to open the audio software and select Device advanced settings &gt; Playback Device to change the default setting first. Please visit GIGABYTE's website for details on configuring the audio software.</li> </ul> </li> </ul>
 LAN	<ul style="list-style-type: none"> <li>Realtek® GbE LAN chip (1000 Mbit/100 Mbit)</li> </ul>
 Expansion Slots	<ul style="list-style-type: none"> <li>CPU: <ul style="list-style-type: none"> <li>1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x16</li> </ul> </li> <li>Chipset: <ul style="list-style-type: none"> <li>2 x PCI Express x1 slots, supporting PCIe 3.0</li> </ul> </li> </ul>
 Storage Interface	<ul style="list-style-type: none"> <li>CPU: <ul style="list-style-type: none"> <li>1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe 3.0 x4/x2 SSD support)</li> </ul> </li> <li>Chipset: <ul style="list-style-type: none"> <li>4 x SATA 6Gb/s connectors</li> <li>Support for RAID 0, RAID 1, and RAID 10</li> </ul> </li> </ul>

 USB	<ul style="list-style-type: none"> <li>♦ CPU: <ul style="list-style-type: none"> <li>- 4 x USB 3.2 Gen 1 ports on the back panel</li> </ul> </li> <li>♦ Chipset: <ul style="list-style-type: none"> <li>- 2 x USB 3.2 Gen 1 ports available through the internal USB header</li> <li>- 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)</li> </ul> </li> </ul>
 Internal Connectors	<ul style="list-style-type: none"> <li>♦ 1 x 24-pin ATX main power connector</li> <li>♦ 1 x 8-pin ATX 12V power connector</li> <li>♦ 1 x CPU fan header</li> <li>♦ 2 x system fan headers</li> <li>♦ 1 x addressable LED strip header</li> <li>♦ 1 x RGB LED strip header</li> <li>♦ 1 x M.2 Socket 3 connector</li> <li>♦ 4 x SATA 6Gb/s connectors</li> <li>♦ 1 x front panel header</li> <li>♦ 1 x front panel audio header</li> <li>♦ 1 x USB 3.2 Gen 1 header</li> <li>♦ 2 x USB 2.0/1.1 headers</li> <li>♦ 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)</li> <li>♦ 1 x serial port header</li> <li>♦ 1 x speaker header</li> <li>♦ 1 x chassis intrusion header</li> <li>♦ 1 x Clear CMOS jumper</li> </ul>
 Back Panel Connectors	<ul style="list-style-type: none"> <li>♦ 1 x PS/2 keyboard/mouse port</li> <li>♦ 1 x D-Sub port</li> <li>♦ 1 x DVI-D port</li> <li>♦ 1 x HDMI port</li> <li>♦ 4 x USB 3.2 Gen 1 ports</li> <li>♦ 2 x USB 2.0/1.1 ports</li> <li>♦ 1 x RJ-45 port</li> <li>♦ 1 x Q-Flash Plus button</li> <li>♦ 3 x audio jacks</li> </ul>
 I/O Controller	<ul style="list-style-type: none"> <li>♦ iTE® I/O Controller Chip</li> </ul>
 Hardware Monitor	<ul style="list-style-type: none"> <li>♦ Voltage detection</li> <li>♦ Temperature detection</li> <li>♦ Fan speed detection</li> <li>♦ Overheating warning</li> <li>♦ Fan fail warning</li> <li>♦ Fan speed control</li> </ul> <p>* Whether the fan speed control function is supported will depend on the fan you install.</p>

	<b>BIOS</b> <ul style="list-style-type: none"> <li>♦ 1 x 128 Mbit flash</li> <li>♦ Use of licensed AMI UEFI BIOS</li> <li>♦ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0</li> </ul>
	<b>Unique Features</b> <ul style="list-style-type: none"> <li>♦ Support for APP Center <ul style="list-style-type: none"> <li>* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.</li> <li>- @BIOS</li> <li>- EasyTune</li> <li>- Fast Boot</li> <li>- Game Boost</li> <li>- ON/OFF Charge</li> <li>- RGB Fusion</li> <li>- Smart Backup</li> <li>- System Information Viewer</li> </ul> </li> <li>♦ Support for Q-Flash Plus</li> <li>♦ Support for Q-Flash</li> <li>♦ Support for Xpress Install</li> </ul>
	<b>Bundled Software</b> <ul style="list-style-type: none"> <li>♦ Norton® Internet Security (OEM version)</li> <li>♦ Realtek® 8118 Gaming LAN Bandwidth Control Utility</li> </ul>
	<b>Operating System</b> <ul style="list-style-type: none"> <li>♦ Support for Windows 10 64-bit</li> </ul>
	<b>Form Factor</b> <ul style="list-style-type: none"> <li>♦ Micro ATX Form Factor; 24.4cm x 20.5cm</li> </ul>

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



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.