




















## 1-2 Product Specifications

 CPU	<ul style="list-style-type: none"> <li>AMD Socket: <ul style="list-style-type: none"> <li>AMD Ryzen™ 2nd Generation processors</li> <li>AMD Ryzen™ with Radeon™ Vega Graphics processors</li> <li>AMD Ryzen™ 1st Generation processors</li> </ul> </li> </ul> <p>(Go to GIGABYTE's website for the latest CPU support list.)</p>
 Chipset	<ul style="list-style-type: none"> <li>AMD B450</li> </ul>
 Memory	<ul style="list-style-type: none"> <li>4 x DDR4 DIMM sockets supporting up to 64 GB of system memory</li> <li>Dual channel memory architecture</li> <li>Support for DDR4 2933/2667/2400/2133 MHz memory modules</li> <li>Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)</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> <p>(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)</p>
 Onboard Graphics	<ul style="list-style-type: none"> <li>Integrated Graphics Processor: <ul style="list-style-type: none"> <li>1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz <sup>(Note)</sup> <ul style="list-style-type: none"> <li>* Support for HDMI 2.0 version and HDCP 2.2. <sup>(Note)</sup></li> </ul> </li> </ul> </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 have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.</li> </ul> </li> <li>Support for S/PDIF Out</li> </ul>
 LAN	<ul style="list-style-type: none"> <li>Realtek® GbE LAN chip (1000/100 Mbit)</li> </ul>
 Wireless Communication Module	<ul style="list-style-type: none"> <li>Wi-Fi 802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band</li> <li>BLUETOOTH 4.2</li> <li>Support for 11ac wireless standard and up to 433 Mbps data rate <ul style="list-style-type: none"> <li>* Actual data rate may vary depending on environment and equipment.</li> </ul> </li> </ul>
 Expansion Slots	<ul style="list-style-type: none"> <li>1 x PCI Express x16 slot, running at x16 (PCIEX16) <sup>(Note)</sup> <ul style="list-style-type: none"> <li>* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.</li> </ul> </li> </ul> <p>(The PCIEX16 slot conforms to PCI Express 3.0 standard.)</p> <ul style="list-style-type: none"> <li>1 x PCI Express x16 slot, running at x1 (PCIEX1_2)</li> <li>1 x PCI Express x1 slot</li> </ul> <p>(The PCIEX1_1 and PCIEX1_2 slots conform to PCI Express 2.0 standard.)</p>
 Storage Interface	<ul style="list-style-type: none"> <li>1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe<sup>(Note)</sup> 3.0 x4/x2 SSD support)</li> <li>4 x SATA 6Gb/s connectors</li> <li>Support for RAID 0, RAID 1, and RAID 10 <ul style="list-style-type: none"> <li>* Refer to "1-7 Internal Connectors," for the installation notices for the M.2 connector.</li> </ul> </li> </ul>

(Note) Actual support may vary by CPU.

	USB	<ul style="list-style-type: none"> <li>♦ CPU: <ul style="list-style-type: none"> <li>- 4 x USB 3.1 Gen 1 ports on the back panel</li> </ul> </li> <li>♦ Chipset: <ul style="list-style-type: none"> <li>- 2 x USB 3.1 Gen 1 ports available through the internal USB header</li> <li>- 6 x USB 2.0/1.1 ports (4 ports on the back panel, 2 ports available through the internal USB header)</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>♦ 1 x system fan 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 S/PDIF Out header</li> <li>♦ 1 x CPU cooler LED strip/RGB LED strip header</li> <li>♦ 1 x RGB LED strip header</li> <li>♦ 2 x addressable LED strip headers</li> <li>♦ 1 x USB 3.1 Gen 1 header</li> <li>♦ 1 x USB 2.0/1.1 header</li> <li>♦ 1 x Trusted Platform Module (TPM) header (2x10 pin, for the GC-TPM2.0 module only)</li> <li>♦ 1 x serial port 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 HDMI port</li> <li>♦ 4 x USB 3.1 Gen 1 ports</li> <li>♦ 4 x USB 2.0/1.1 ports</li> <li>♦ 2 x SMA antenna connectors (1T1R)</li> <li>♦ 1 x RJ-45 port</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 cooler you install.</p>
	BIOS	<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>

	Unique Features	<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>- 3D OSD</li> <li>- @BIOS</li> <li>- AutoGreen</li> <li>- Cloud Station</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>- Smart Keyboard</li> <li>- Smart TimeLock</li> <li>- Smart HUD</li> <li>- Smart Survey</li> <li>- System Information Viewer</li> <li>- USB Blocker</li> </ul> </li> <li>◆ Support for Q-Flash</li> <li>◆ Support for Xpress Install</li> </ul>
	Bundled Software	<ul style="list-style-type: none"> <li>◆ Norton® Internet Security (OEM version)</li> <li>◆ cFosSpeed</li> </ul>
	Operating System	<ul style="list-style-type: none"> <li>◆ Support for Windows 10 64-bit</li> </ul>
	Form Factor	<ul style="list-style-type: none"> <li>◆ Micro ATX Form Factor; 24.4cm x 21.5cm</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.