




















## 1-2 Product Specifications

|   |                               |   |
|---|-------------------------------|---|
|    | CPU                           | <ul style="list-style-type: none"> <li>◆ AMD Socket AM4, support for:<br/>3rd Generation AMD Ryzen™ processors/<br/>New Generation AMD Ryzen™ with Radeon™ Graphics processors<br/>(Go to GIGABYTE's website for the latest CPU support list.)</li> </ul>   |
|    | Chipset                       | <ul style="list-style-type: none"> <li>◆ AMD B550</li> </ul>  |
|    | Memory                        | <ul style="list-style-type: none"> <li>◆ 4 x DDR4 DIMM sockets supporting up to 128 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<br/>(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)</li> </ul>  |
|    | Onboard Graphics              | <ul style="list-style-type: none"> <li>◆ Integrated in the New Generation AMD Ryzen™ with Radeon™ Graphics processors: <ul style="list-style-type: none"> <li>- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz</li> <li>* Support for HDMI 2.1 version, HDCP 2.3, and HDR.</li> </ul> </li> <li>◆ Maximum shared memory of 16 GB</li> </ul>  |
|    | Audio                         | <ul style="list-style-type: none"> <li>◆ Realtek® ALC1220-VB codec <ul style="list-style-type: none"> <li>* The back panel line out jack supports DSD audio.</li> </ul> </li> <li>◆ Support for DTS:X® Ultra</li> <li>◆ High Definition Audio</li> <li>◆ 2/4/5.1/7.1-channel</li> <li>◆ Support for S/PDIF Out</li> </ul>   |
|    | LAN                           | <ul style="list-style-type: none"> <li>◆ Realtek® 2.5GbE LAN chip (2.5 Gbit/1 Gbit/100 Mbit)</li> </ul>   |
|   | Wireless Communication Module | <ul style="list-style-type: none"> <li>◆ Intel® Wi-Fi 6 AX200 <ul style="list-style-type: none"> <li>- WIFI a, b, g, n, ac with wave 2 features, ax, supporting 2.4/5 GHz Dual-Band BLUETOOTH 5</li> <li>- Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate</li> <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 (PCIEX16), integrated in the CPU: <ul style="list-style-type: none"> <li>- 3rd Generation AMD Ryzen™ processors support PCIe 4.0 x16 mode</li> <li>- New Generation AMD Ryzen™ with Radeon™ Graphics processors support PCIe 3.0 x16 mode</li> <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> <li>* The PCIEX16 slot shares bandwidth with the M2B_CPU and M2C_CPU connectors.</li> <li>The PCIEX16 slot operates at up to x8 mode when a device is installed in the M2B_CPU or M2C_CPU connector.</li> </ul> </li> <li>◆ 2 x PCI Express x16 slots (PCIEX4_1/PCIEX4_2), integrated in the Chipset: <ul style="list-style-type: none"> <li>- Supporting PCIe 3.0 x4 mode</li> <li>* The PCIEX4_2 slot shares bandwidth with the SATA3 4, 5 connectors. The PCIEX4_2 slot operates at up to x2 mode when a device is installed in the SATA3 4 or SATA3 5 connector.</li> </ul> </li> </ul> |

|   |  |
|---|--|
|  | <p><b>Storage Interface</b></p> <ul style="list-style-type: none"> <li>◆ 1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2280/22110 SSDs: <ul style="list-style-type: none"> <li>- 3rd Generation AMD Ryzen™ processors support SATA and PCIe 4.0 x4/x2 SSDs</li> <li>- New Generation AMD Ryzen™ with Radeon™ Graphics processors support SATA and PCIe 3.0 x4/x2 SSDs</li> </ul> </li> <li>◆ 2 x M.2 connectors (M2B_CPU/M2C_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2280/22110 SSDs: <ul style="list-style-type: none"> <li>- 3rd Generation AMD Ryzen™ processors support PCIe 4.0 x4/x2 SSDs</li> <li>- New Generation AMD Ryzen™ with Radeon™ Graphics processors support PCIe 3.0 x4/x2 SSDs</li> </ul> </li> <li>◆ 6 x SATA 6Gb/s connectors, integrated in the Chipset: <ul style="list-style-type: none"> <li>- Support for RAID 0, RAID 1, and RAID 10</li> </ul> </li> </ul>  |
|  | <p><b>USB</b></p> <ul style="list-style-type: none"> <li>◆ CPU: <ul style="list-style-type: none"> <li>- 4 x USB 3.2 Gen 2 Type-A ports (red) on the back panel</li> </ul> </li> <li>◆ Chipset: <ul style="list-style-type: none"> <li>- 1 x USB Type-C™ port on the back panel, with USB 3.2 Gen 2 support</li> <li>- 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel</li> <li>- 2 x USB 3.2 Gen 1 ports available through the internal USB header</li> <li>- 2 x USB 2.0/1.1 ports on the back panel</li> </ul> </li> <li>◆ Chipset+2 USB 2.0 Hubs: <ul style="list-style-type: none"> <li>- 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)</li> </ul> </li> </ul>  |
|  | <p><b>Internal Connectors</b></p> <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 4-pin ATX 12V power connector</li> <li>◆ 1 x CPU fan header</li> <li>◆ 1 x water cooling CPU fan header</li> <li>◆ 4 x system fan headers</li> <li>◆ 2 x system fan/water cooling pump headers</li> <li>◆ 2 x addressable LED strip headers</li> <li>◆ 2 x RGB LED strip headers</li> <li>◆ 1 x CPU cooler LED strip/RGB LED strip header</li> <li>◆ 3 x M.2 Socket 3 connectors</li> <li>◆ 6 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 noise detection header</li> <li>◆ 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)</li> <li>◆ 1 x Thunderbolt™ add-in card connector</li> <li>◆ 1 x Clear CMOS jumper</li> <li>◆ 2 x temperature sensor headers</li> </ul> |

|   |                       |   |
|---|-----------------------|---|
|  | Back Panel Connectors | <ul style="list-style-type: none"> <li>◆ 2 x SMA antenna connectors (2T2R)</li> <li>◆ 1 x HDMI port</li> <li>◆ 6 x USB 2.0/1.1 ports</li> <li>◆ 5 x USB 3.2 Gen 2 Type-A ports (red)</li> <li>◆ 1 x USB Type-C™ port, with USB 3.2 Gen 2 support</li> <li>◆ 1 x Q-Flash Plus button</li> <li>◆ 1 x RJ-45 port</li> <li>◆ 1 x optical S/PDIF Out connector</li> <li>◆ 5 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>◆ Water cooling flow rate detection</li> <li>◆ Overheating warning</li> <li>◆ Fan fail warning</li> <li>◆ Fan speed control <ul style="list-style-type: none"> <li>* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.</li> </ul> </li> <li>◆ Noise detection</li> </ul>  |
|  | BIOS                  | <ul style="list-style-type: none"> <li>◆ 2 x 256 Mbit flash</li> <li>◆ Use of licensed AMI UEFI BIOS</li> <li>◆ Support for DualBIOS™</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>- @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> |

|   |                  |  |
|---|------------------|--|
|  | Bundled Software | <ul style="list-style-type: none"> <li>◆ Norton® Internet Security (OEM version)</li> <li>◆ XSplit Gamecaster + Broadcaster (12 months license)</li> <li>◆ Realtek® 8125 Gaming LAN Bandwidth Control Utility</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>◆ ATX Form Factor; 30.5cm x 24.4cm</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 **SupportUtility List** page on GIGABYTE's website to download the latest version of apps.