

1-2 Product Specifications

	CPU	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ AMD B550
	Memory	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ Integrated in the 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors: <ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> ◆ Realtek® ALC1220-VB codec <ul style="list-style-type: none"> * The back panel line out jack supports DSD audio. ◆ High Definition Audio ◆ 2/4/5.1/7.1-channel ◆ Support for S/PDIF Out
	LAN	<ul style="list-style-type: none"> ◆ Realtek® 2.5GbE LAN chip (2.5 Gbit/1 Gbit/100 Mbit)
	Wireless Communication Module <small>(Note)</small>	<ul style="list-style-type: none"> ◆ Intel® Wi-Fi 6 AX200 <ul style="list-style-type: none"> - WiFi a, b, g, n, ac with wave 2 features, ax, supporting 2.4/5 GHz Dual-Band - BLUETOOTH 5 - Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate * Actual data rate may vary depending on environment and equipment.
	Expansion Slots	<ul style="list-style-type: none"> ◆ 1 x PCI Express x16 slot (PCIEX16), integrated in the CPU: <ul style="list-style-type: none"> - 3rd Generation AMD Ryzen™ processors support PCIe 4.0 x16 mode - 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors support PCIe 3.0 x16 mode * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. ◆ 1 x PCI Express x16 slot (PCIEX4), integrated in the Chipset: <ul style="list-style-type: none"> - Supporting PCIe 3.0 x4 mode * The M2B_SB connector shares bandwidth with the PCIEX4 slot. The PCIEX4 slot will become unavailable when an SSD is installed in the M2B_SB connectors. ◆ 1 x PCI Express x16 slot (PCIEX2), integrated in the Chipset: <ul style="list-style-type: none"> - Supporting PCIe 3.0 x2 mode * The PCIEX2 slot shares bandwidth with the SATA3 4, 5 connectors. The PCIEX2 slot will become unavailable when a device is installed in the SATA3 4 or SATA3 5 connector. ◆ 2 x PCI Express x1 slots

(Note) Only for the B550 AORUS PRO AX.

	<p>Storage Interface</p> <ul style="list-style-type: none"> ◆ 1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs: <ul style="list-style-type: none"> - 3rd Generation AMD Ryzen™ processors support SATA and PCIe 4.0 x4/x2 SSDs - 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors support SATA and PCIe 3.0 x4/x2 SSDs ◆ 1 x M.2 connector (M2B_SB), integrated in the Chipset, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs: <ul style="list-style-type: none"> - support PCIe 3.0 x4/x2 SSDs ◆ 6 x SATA 6Gb/s connectors, integrated in the Chipset: <ul style="list-style-type: none"> - Support for RAID 0, RAID 1, and RAID 10
	<p>USB</p> <ul style="list-style-type: none"> ◆ CPU: <ul style="list-style-type: none"> - 2 x USB 3.2 Gen 1 ports on the back panel - 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel ◆ Chipset: <ul style="list-style-type: none"> - 1 x USB Type-C™ port on the back panel, with USB 3.2 Gen 2 support - 1 x USB Type-C™ port with USB 3.2 Gen 1 support, available through the internal USB header - 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel - 2 x USB 3.2 Gen 1 ports available through the internal USB header - 2 x USB 2.0/1.1 ports on the back panel ◆ Chipset+2 USB 2.0 Hubs: <ul style="list-style-type: none"> - 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)
	<p>Internal Connectors</p> <ul style="list-style-type: none"> ◆ 1 x 24-pin ATX main power connector ◆ 1 x 8-pin ATX 12V power connector ◆ 2 x M.2 Socket 3 connectors ◆ 6 x SATA 6Gb/s connectors ◆ 1 x CPU fan header ◆ 1 x water cooling CPU fan header ◆ 4 x system fan headers ◆ 2 x system fan/water cooling pump headers ◆ 1 x CPU cooler LED strip/RGB LED strip header ◆ 2 x addressable LED strip headers ◆ 2 x RGB LED strip headers ◆ 1 x front panel header ◆ 1 x front panel audio header ◆ 1 x USB Type-C™ port, with USB 3.2 Gen 1 support ◆ 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) ◆ 2 x temperature sensor headers ◆ 1 x Clear CMOS jumper

	Back Panel Connectors	<ul style="list-style-type: none"> ◆ 1 x HDMI port ◆ 2 x SMA antenna connectors (2T2R) ^(Note) ◆ 2 x USB 3.2 Gen 1 ports ◆ 1 x USB Type-C™ port, with USB 3.2 Gen 2 support ◆ 2 x USB 3.2 Gen 2 Type-A ports (red) ◆ 6 x USB 2.0/1.1 ports ◆ 1 x Q-Flash Plus button ◆ 1 x RJ-45 port ◆ 1 x optical S/PDIF Out connector ◆ 5 x audio jacks
	I/O Controller	<ul style="list-style-type: none"> ◆ iTE® I/O Controller Chip
	Hardware Monitor	<ul style="list-style-type: none"> ◆ Voltage detection ◆ Temperature detection ◆ Fan speed detection ◆ Water cooling flow rate detection ◆ Overheating warning ◆ Fan fail warning ◆ Fan speed control <p style="margin-left: 40px;">* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.</p>
	BIOS	<ul style="list-style-type: none"> ◆ 1 x 256 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	<ul style="list-style-type: none"> ◆ Support for APP Center <p style="margin-left: 40px;">* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.</p> <ul style="list-style-type: none"> - @BIOS - EasyTune - Fast Boot - Game Boost - ON/OFF Charge - RGB Fusion - Smart Backup - System Information Viewer <ul style="list-style-type: none"> ◆ Support for Q-Flash Plus ◆ Support for Q-Flash ◆ Support for Xpress Install

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	Bundled Software	<ul style="list-style-type: none"> ◆ Norton® Internet Security (OEM version) ◆ XSplit Gamecaster + Broadcaster (12 months license) ◆ Realtek® 8125 Gaming LAN Bandwidth Control Utility
	Operating System	<ul style="list-style-type: none"> ◆ Support for Windows 10 64-bit
	Form Factor	<ul style="list-style-type: none"> ◆ ATX Form Factor; 30.5cm x 24.4cm

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

B550 AORUS PRO AX



B550 AORUS PRO V2



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



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