












## 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>2nd Generation AMD Ryzen™ processors/</li> <li>3rd Generation AMD Ryzen™ with Radeon™ Graphics processors/</li> <li>2nd Generation AMD Ryzen™ with Radeon™ Vega Graphics processors/</li> <li>1st Generation AMD Ryzen™ with Radeon™ Vega Graphics 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 X570</li> </ul>
	Memory	<ul style="list-style-type: none"> <li>◆ 3rd Generation AMD Ryzen™ processors/3rd Generation AMD Ryzen™ with Radeon™ Graphics processors:               <ul style="list-style-type: none"> <li>- Support for DDR4 3200/2933/2667/2400/2133 MHz memory modules</li> </ul> </li> <li>◆ 2nd Generation AMD Ryzen™ processors/2nd Generation AMD Ryzen™ with Radeon™ Vega Graphics processors/1st Generation AMD Ryzen™ with Radeon™ Vega Graphics processors:               <ul style="list-style-type: none"> <li>- Support for DDR4 2933/2667/2400/2133 MHz memory modules</li> </ul> </li> <li>◆ 4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory</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> <p>(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)</p>
	Onboard Graphics <small>(Note 1)</small>	<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</li> <li>* Support for HDMI 2.0 version, HDCP 2.2, 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>◆ 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>◆ Intel® GbE LAN chip (1000 Mbit/100 Mbit)</li> </ul>
	Wireless Communication Module ①	<ul style="list-style-type: none"> <li>◆ Wi-Fi 802.11a/b/g/n/ac/ax, supporting 2.4/5 GHz Dual-Band</li> <li>◆ 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>

① Only for the X570 AORUS PRO WIFI.

(Note 1) For 3rd Generation AMD Ryzen™ with Radeon™ Graphics processors/2nd Generation AMD Ryzen™ with Radeon™ Vega Graphics processors/1st Generation AMD Ryzen™ with Radeon™ Vega Graphics processors only.






	<p><b>Expansion Slots</b> Integrated in the CPU (PCIEX16/PCIEX8):</p> <ul style="list-style-type: none"> <li>◆ 3rd Generation AMD Ryzen™ processors: <ul style="list-style-type: none"> <li>- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 (PCIEX16)</li> <li>- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x8 (PCIEX8)</li> </ul> </li> <li>◆ 2nd Generation AMD Ryzen™ processors/3rd Generation AMD Ryzen™ with Radeon™ Graphics processors: <ul style="list-style-type: none"> <li>- 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x16 (PCIEX16)</li> <li>- 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x8 (PCIEX8)</li> </ul> <p>* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.</p> <p>* The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When using the 3rd Generation AMD Ryzen™ processors/2nd Generation AMD Ryzen™ processors/3rd Generation AMD Ryzen™ with Radeon™ Graphics processors, the PCIEX16 slot operates at up to x8 mode, the PCIEX16 slot operates at up to x8 mode.</p> </li> <li>◆ 2nd Generation AMD Ryzen™ with Radeon™ Vega Graphics processors/1st Generation AMD Ryzen™ with Radeon™ Vega Graphics processors: <ul style="list-style-type: none"> <li>- 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x8 (PCIEX16)</li> </ul> </li> </ul> <p>Integrated in the Chipset (PCIEX4/PCIEX1):</p> <ul style="list-style-type: none"> <li>- 1 x PCI Express x16 slot, supporting PCIe 4.0 <sup>(Note 2)</sup>/3.0 and running at x4 (PCIEX4)</li> <li>- 2 x PCI Express x1 slots, supporting PCIe 4.0 <sup>(Note 2)</sup>/3.0</li> </ul>
	<p><b>Multi-Graphics Technology</b> <sup>(Note 3)</sup></p> <ul style="list-style-type: none"> <li>◆ Support for NVIDIA® Quad-GPU SLI™ and 2-Way NVIDIA® SLI™ technologies</li> <li>◆ Support for AMD Quad-GPU CrossFire™ and 2-Way AMD CrossFire™ technologies</li> </ul>
	<p><b>Storage Interface</b> Integrated in the CPU (M2A_SOCKET):</p> <ul style="list-style-type: none"> <li>◆ 3rd Generation AMD Ryzen™ processors: <ul style="list-style-type: none"> <li>- 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 4.0 x4/x2 SSD support)</li> </ul> </li> <li>◆ 2nd Generation AMD Ryzen™ processors/3rd Generation AMD Ryzen™ with Radeon™ Graphics processors/2nd Generation AMD Ryzen™ with Radeon™ Vega Graphics processors/1st Generation AMD Ryzen™ with Radeon™ Vega Graphics processors: <ul style="list-style-type: none"> <li>- 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support)</li> </ul> </li> </ul> <p>Integrated in the Chipset (M2B_SOCKET):</p> <ul style="list-style-type: none"> <li>- 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 4.0 <sup>(Note 2)</sup>/3.0 x4/x2 SSD support)</li> <li>- 6 x SATA 6Gb/s connectors</li> <li>- Support for RAID 0, RAID 1, and RAID 10</li> </ul>
	<p><b>USB</b></p> <ul style="list-style-type: none"> <li>◆ Integrated in the CPU: <ul style="list-style-type: none"> <li>- 3 x USB 3.2 Gen 1 ports on the back panel</li> <li>- 1 x USB 3.2 Gen 2 <sup>(Note 2)</sup>/Gen 1 Type-A port (red) on the back panel</li> </ul> </li> <li>◆ Chipset: <ul style="list-style-type: none"> <li>- 1 x USB Type-C™ port with USB 3.2 Gen 2 support, available through the internal USB header</li> <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>- 4 x USB 3.2 Gen 1 ports available through the internal USB headers</li> </ul> </li> <li>◆ Chipset+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>

	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 4-pin ATX 12V power connector</li> <li>◆ 1 x CPU fan header</li> <li>◆ 1 x water cooling CPU fan header</li> <li>◆ 3 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>◆ 2 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 Type-C™ header, with USB 3.2 Gen 2 support</li> <li>◆ 2 x USB 3.2 Gen 1 headers</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 Thunderbolt™ add-in card connector</li> <li>◆ 1 x Clear CMOS jumper</li> <li>◆ 2 x temperature sensor headers</li> <li>◆ 1 x Q-Flash Plus button</li> </ul>
	Back Panel Connectors	<ul style="list-style-type: none"> <li>◆ 2 x SMA antenna connectors (2T2R)①</li> <li>◆ 1 x HDMI port</li> <li>◆ 1 x USB Type-C™ port, with USB 3.2 Gen 2 support</li> <li>◆ 1 x USB 3.2 Gen 2 <sup>(Note 2)</sup> /Gen 1 Type-A port (red)</li> <li>◆ 1 x USB 3.2 Gen 2 Type-A port (red)</li> <li>◆ 3 x USB 3.2 Gen 1 ports</li> <li>◆ 4 x USB 2.0/1.1 ports</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</li> </ul> <p style="margin-left: 40px;">* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.</p>

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(Note 2) For 3rd Generation AMD Ryzen™ processors only.

(Note 3) For 3rd Generation AMD Ryzen™ processors/2nd Generation AMD Ryzen™ processors/3rd Generation AMD Ryzen™ with Radeon™ Graphics processors only.

 BIOS	<ul style="list-style-type: none"> <li>◆ 2 x 128 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>◆ cFosSpeed</li> <li>◆ XSplit Gamecaster + Broadcaster (12 months license)</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.

X570 AORUS PRO



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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.