



















1-2 Product Specifications

	CPU	<ul style="list-style-type: none"> ◆ LGA1200 package: <ul style="list-style-type: none"> - 11th Generation Intel® Core™ i9 processors/Intel® Core™ i7 processors/Intel® Core™ i5 processors - 10th Generation Intel® Core™ i9 processors/Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors* * Limited to processors with 4 MB Intel® Smart Cache, Intel® Celeron® G5xx5 family. (Go to GIGABYTE's website for the latest CPU support list.) ◆ L3 cache varies with CPU
	Chipset	<ul style="list-style-type: none"> ◆ Intel® H510 Express Chipset
	Memory	<ul style="list-style-type: none"> ◆ 11th Generation Intel® Core™ i9/i7/i5 processors: <ul style="list-style-type: none"> - Support for DDR4 3200/3000/2933/2666/2400/2133 MHz memory modules ◆ 10th Generation Intel® Core™ i9/i7 processors: <ul style="list-style-type: none"> - Support for DDR4 2933/2666/2400/2133 MHz memory modules ◆ 10th Generation Intel® Core™ i5/i3/Pentium®/Celeron® processors: <ul style="list-style-type: none"> - Support for DDR4 2666/2400/2133 MHz memory modules ◆ 2 x DDR4 DIMM sockets supporting up to 64 GB (32 GB single DIMM capacity) of system memory ◆ Dual channel memory architecture ◆ Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) ◆ 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 Graphics Processor-Intel® HD Graphics support: <ul style="list-style-type: none"> - 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz - 1 x HDMI port, supporting a maximum resolution of 4096x2160@30 Hz * Support for HDMI 1.4 version and HDCP 2.3. (Graphics specifications may vary depending on CPU support.)
	Audio	<ul style="list-style-type: none"> ◆ Realtek® Audio CODEC ◆ High Definition Audio ◆ 2/4/5.1/7.1-channel <ul style="list-style-type: none"> * To configure 7.1-channel audio, you need to open the audio software and select Device advanced settings > Playback Device to change the default setting first. Please visit GIGABYTE's website for details on configuring the audio software.
	LAN	<ul style="list-style-type: none"> ◆ Realtek® GbE LAN chip (1 Gbit/100 Mbit)
	Expansion Slots	<ul style="list-style-type: none"> ◆ 1 x PCI Express x16 slot, running at x16 (PCIEX16) <ul style="list-style-type: none"> * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. (The PCIEX16 slot conforms to PCI Express 4.0 standard.)^(Note) ◆ 1 x PCI Express x1 slot (PCIEX1_1) (The PCIEX1 slot conforms to PCI Express 3.0 standard.)

(Note) Supported by 11th Generation processors only.

	Storage Interface ♦	<ul style="list-style-type: none"> ♦ Chipset: <ul style="list-style-type: none"> - 1 x M.2 connector (Socket 3, M key, type 2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support) - 4 x SATA 6Gb/s connectors * Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.
	USB ♦	<ul style="list-style-type: none"> ♦ Chipset: <ul style="list-style-type: none"> - 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header) - 6 x USB 2.0/1.1 ports (4 ports on the back panel, 2 ports available through the internal USB header)
	Internal Connectors ♦	<ul style="list-style-type: none"> ♦ 1 x 24-pin ATX main power connector ♦ 1 x 8-pin ATX 12V power connector ♦ 1 x CPU fan header ♦ 1 x system fan header ♦ 1 x RGB LED strip header ♦ 1 x M.2 Socket 3 connector ♦ 4 x SATA 6Gb/s connectors ♦ 1 x front panel header ♦ 1 x front panel audio header ♦ 1 x USB 3.2 Gen 1 header ♦ 1 x USB 2.0/1.1 header ♦ 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only) ♦ 1 x serial port header ♦ 1 x Clear CMOS jumper
	Back Panel Connectors ♦	<ul style="list-style-type: none"> ♦ 1 x PS/2 keyboard/mouse port ♦ 1 x D-Sub port ♦ 1 x HDMI port ♦ 2 x USB 3.2 Gen 1 ports ♦ 4 x USB 2.0/1.1 ports ♦ 1 x RJ-45 port ♦ 3 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 ♦ Fan fail warning ♦ Fan speed control <p style="margin-left: 40px;">* Whether the fan speed control function is supported will depend on the cooler 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 <ul style="list-style-type: none"> * Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. - @BIOS - Ambient LED - EasyTune - Fast Boot - Game Boost - ON/OFF Charge - Smart Backup - System Information Viewer ◆ Support for Q-Flash ◆ Support for Xpress Install
 Bundled Software	<ul style="list-style-type: none"> ◆ Norton® Internet Security (OEM version) ◆ Realtek® 8118 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"> ◆ Micro ATX Form Factor; 24.4cm x 21.0cm

* 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.