



















1-2 Product Specifications

	<p>CPU</p> <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
	<p>Chipset</p> <ul style="list-style-type: none"> ◆ Intel® H510 Express Chipset
	<p>Memory</p> <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.)
	<p>Onboard Graphics</p> <ul style="list-style-type: none"> ◆ Integrated Graphics Processor-Intel® HD Graphics support: <ul style="list-style-type: none"> - 1 x D-Sub port ^(Note 1), supporting a maximum resolution of 1920x1200@60 Hz - 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz <ul style="list-style-type: none"> * The DVI-D port does not support D-Sub connection by adapter. - 1 x HDMI ports, supporting a maximum resolution of 4096x2160@30 Hz <ul style="list-style-type: none"> * Support for HDMI 1.4 version and HDCP 2.3. - 1 x DisplayPort ^(Note 1), supporting a maximum resolution of 4096x2304@60 Hz <ul style="list-style-type: none"> * Support for DisplayPort 1.2 version and HDCP 2.3 ◆ Support for up to 2 displays at the same time (Graphics specifications may vary depending on CPU support.)
	<p>Audio</p> <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.

(Note 1) When the D-Sub port and DisplayPort are connected at the same time, images will output from the DisplayPort only.

	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 (The PCI Express x16 slot conforms to PCI Express 4.0 standard.)^(Note 2) ◆ 2 x PCI Express x1 slots (The PCI Express x1 slots conform to PCI Express 3.0 standard.)
	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 SATA and PCIe 3.0 x4/x2 SSD support) <ul style="list-style-type: none"> * The PCIeX1_1 slot shares bandwidth with the M.2 connector. When the PCIeX1_1 slot is populated, the M.2 connector supports up to PCIe 3.0 x2 SSD only. - 4 x SATA 6Gb/s connectors <ul style="list-style-type: none"> * 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) ◆ Chipset+USB 2.0 Hub: <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 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 ◆ 4 x SATA 6Gb/s connectors ◆ 1 x CPU fan header ◆ 2 x system fan headers ◆ 1 x RGB LED strip header ◆ 1 x front panel header ◆ 1 x front panel audio header ◆ 1 x USB 3.2 Gen 1 header ◆ 2 x USB 2.0/1.1 headers ◆ 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 port ◆ 1 x PS/2 mouse port ◆ 1 x D-Sub port ◆ 1 x DVI-D port ◆ 1 x DisplayPorts ◆ 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

(Note 2) Supported by 11th Generation processors only.

	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 ◆ Overheating warning ◆ Fan fail warning ◆ Fan speed control <ul style="list-style-type: none"> * Whether the fan speed control function is supported will depend on the cooler you install.
	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.