



184.95 EUR
 incl. 19% VAT, plus [shipping](#)

- Gigabyte Features !
- 2x M.2 slot !
- USB Type-C !
- Displayport/HDMI !



- Supports 9th and 8th Gen Intel® Core™ Processors
- Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs
- Intel® Optane™ Memory Ready
- 6 Phases IR Digital VRM Solution with PowIRstage
- Advanced Thermal Design with Extended Fin Heatsink
- Onboard Intel® CNVi 802.11ac 2x2 Wave 2 Wi-Fi
- ALC1220-VB Enhance 114dB(Rear)/ 110dB(Front) SNR in Microphone with NICHICON Audio Capacitors
- Intel® Gigabit LAN with cFosSpeed
- RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design, Supports Addressable LED & RGB LED Strips
- Smart Fan 5 features Multiple Temperature Sensors and Hybrid Fan Headers with FAN STOP
- Front USB 3.1 Gen 1 Type-C™ Header
- Dual Ultra-Fast M.2 with PCIe Gen3 x4 interface, one with Thermal Guard
- CEC 2019 Ready, Save Power With a Simple Click

CPU

1. Support for 9th and 8th Generation Intel® Core™ i9 processors/Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1151 package
2. L3 cache varies with CPU
 (Please refer "CPU Support List" for more information.)

Chipset

1. Intel® Z390 Express Chipset

Memory	<ol style="list-style-type: none">2 x DDR4 DIMM sockets supporting up to 32 GB of system memoryDual channel memory architectureSupport for DDR4 4400(O.C.) / 4333(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3800(O.C.) / 3733(O.C.) / 3666(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3333(O.C.) / 3300(O.C.) / 3200(O.C.) / 3000(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz memory modulesSupport 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 modulesSupport for Extreme Memory Profile (XMP) memory modules (Please refer "Memory Support List" for more information.)
Onboard Graphics	<p>Integrated Graphics Processor+MegaChips MCDP2800 chip:</p> <ol style="list-style-type: none">1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.0 version, HDCP 2.2, and HDR. <p>Integrated Graphics Processor-Intel® HD Graphics support:</p> <ol style="list-style-type: none">1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz * Support for DisplayPort 1.2 version, HDCP 2.2, and HDR. <p>Maximum shared memory of 1 GB Actual support may vary by CPU.</p>
Audio	<ol style="list-style-type: none">Realtek® ALC1220-VB codec * The back panel line out jack supports DSD audio.High Definition Audio2/4/5.1/7.1-channelSupport for S/PDIF Out
LAN	<ol style="list-style-type: none">Intel® GbE LAN chip (10/100/1000 Mbit)
Wireless Communication module	<ol style="list-style-type: none">Intel® CNVi interface Wi-Fi 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-BandBLUETOOTH 5Support for 11ac 160 MHz wireless standard and up to 1.73 Gbps data rate * Actual data rate may vary depending on environment and equipment.
Expansion Slots	<ol style="list-style-type: none">1 x PCI Express x16 slot, running at x161 x M.2 Socket 1 connector for an Intel® CNVi wireless module only (CNVI) <p>Chipset:</p> <ol style="list-style-type: none">1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x4/x2 SSD support) (M2P)1 x M.2 connector on the back of the motherboard (Socket 3, M key, type 2260/2280 SATA and PCIe x4/x2 SSD support) (M2M)
Storage Interface	<ol style="list-style-type: none">4 x SATA 6Gb/s connectorsSupport for RAID 0, RAID 1, RAID 5, and RAID 10 * Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors. <p>Intel® Optane™ Memory Ready</p>

USB	Chipset: <ol style="list-style-type: none">1 x USB Type-C™ port with USB 3.1 Gen 1 support, available through the internal USB header1 x USB Type-C™ port on the back panel, with USB 3.1 Gen 2 support1 x USB 3.1 Gen 2 Type-A port (red) on the back panel6 x USB 3.1 Gen 1 ports (4 ports on the back panel, 2 ports available through the internal USB header)2 x USB 2.0/1.1 ports available through the internal USB header
Internal I/O Connectors	<ol style="list-style-type: none">1 x 24-pin ATX main power connector1 x 8-pin ATX 12V power connector1 x CPU fan header2 x system fan headers1 x digital LED strip header1 x digital LED strip power select jumper1 x RGB LED strip header4 x SATA 6Gb/s connectors2 x M.2 Socket 3 connectors1 x front panel header1 x front panel audio header1 x speaker header1 x USB Type-C™ port, with USB 3.1 Gen 1 support1 x USB 3.1 Gen 1 header1 x USB 2.0/1.1 header1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)1 x Clear CMOS jumper1 x chassis intrusion header
Back Panel Connectors	<ol style="list-style-type: none">1 x DisplayPort1 x HDMI port1 x USB Type-C™ port, with USB 3.1 Gen 2 support1 x USB 3.1 Gen 2 Type-A port (red)4 x USB 3.1 Gen 1 ports1 x RJ-45 port2 x SMA antenna connectors (2T2R)1 x optical S/PDIF Out connector5 x audio jacks
I/O Controller	<ol style="list-style-type: none">1. iTE® I/O Controller Chip
H/W Monitoring	<ol style="list-style-type: none">1. Voltage detection2. Temperature detection3. Fan speed detection4. Overheating warning5. Fan fail warning6. Fan speed control <p>* Whether the fan speed control function is supported will depend on the cooler you install.</p>
BIOS	<ol style="list-style-type: none">1. 2 x 128 Mbit flash2. Use of licensed AMI UEFI BIOS3. Support for DualBIOS™4. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Unique Features	<ol 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. <p>3D OSD @BIOS AutoGreen Cloud Station EasyTune Easy RAID Fast Boot Game Boost ON/OFF Charge Platform Power Management RGB Fusion Smart Backup Smart Keyboard Smart TimeLock Smart HUD Smart Survey System Information Viewer USB Blocker</p>
Bundle Software	<ol style="list-style-type: none">Support for Q-FlashSupport for Xpress Install
Operating System	<ol style="list-style-type: none">Norton® Internet Security (OEM version)cFosSpeed
Form Factor	<ol style="list-style-type: none">Support for Windows 10 64-bitMini-ITX Form Factor; 17.0cm x 17.0cm
Remark	<ol style="list-style-type: none">Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.Most hardware/software vendors may no longer offer drivers to support Win9X/ME/2000/XP. If drivers are available from the vendors, we will update them on the GIGABYTE website.