**Features**

AMD B450 Ultra Durable Motherboard with GIGABYTE Gaming LAN and Bandwidth Management, PCIe Gen3 x4 M.2, 7-colors RGB LED Strips Support, Anti-Sulfur Resistor Design

* Supports AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors
* Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs
* HDMI, DVI-D, D-sub Ports for Multiple Display
* Ultra-Fast PCIe Gen3 x4 M.2 with PCIe NVMe & SATA mode support
* GIGABYTE Exclusive 8118 Gaming LAN with Bandwidth Management
* RGB Fusion supports RGB LED Strips in 7-Colors
* High Quality Audio Capacitors and Audio Noise Guard Design
* Smart Fan 5 features 5 Temperature Sensors and 2 Hybrid Fan Headers
* APP Center Including EasyTune™ and Cloud Station™ Utilities

**Specifications**

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| CPU | AM4 Socket: Support for AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors (Please refer "CPU Support List" for more information.) |
| Chipset | AMD B450 |
| Memory | * 2 x DDR4 DIMM sockets supporting up to 32 GB of system memory * Dual channel memory architecture * Support for DDR4 3200(O.C.)/2933/2667/2400/2133 MHz memory modules * 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   (Please refer "Memory Support List" for more information.) |
| Onboard Graphics | Integrated Graphics Processor:   * 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz * 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz \* The DVI-D port does not support D-Sub connection by adapter. * 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz(Note) \* Support for HDMI 2.0 version and HDCP 2.2.(Note)   Maximum shared memory of 2 GB  (Note) Actual support may vary by CPU. |
| Audio | * Realtek® ALC887 codec * High Definition Audio * 2/4/5.1/7.1-channel \* To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. * Support for S/PDIF Out |
| LAN | Realtek® GbE LAN chip (10/100/1000 Mbit) |
| Expansion Slots | * 1 x PCI Express x16 slot, running at x16 (The PCIEX16 slot conforms to PCI Express 3.0 standard.) * 2 x PCI Express x1 slots (The PCI Express x1 slot conforms to PCI Express 2.0 standard.) |
| Storage Interface | * 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x4/x2\* SSD support) \* Supports only M.2 SATA SSDs when using an AMD Athlon™ 200-series/ 7th Generation A-series or Athlon™ APU. * 4 x SATA 6Gb/s connectors * Support for RAID 0, RAID 1, and RAID 10 |
| USB | Chipset:   * 2 x USB 3.1 Gen 1 ports available through the internal USB header * 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)   CPU:   * 4 x USB 3.1 Gen 1 ports on the back panel |
| Internal I/O Connectors | * 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 M.2 Socket 3 connector * 4 x SATA 6Gb/s connectors * 1 x front panel header * 1 x front panel audio header * 1 x S/PDIF Out header * 1 x CPU cooler LED strip/RGB LED strip header * 1 x USB 3.1 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) * 1 x speaker header * 1 x Clear CMOS jumper * 1 x chassis intrusion header |
| Back Panel Connectors | * 1 x PS/2 keyboard port * 1 x PS/2 mouse port * 1 x D-Sub port * 1 x DVI-D port * 1 x HDMI port * 4 x USB 3.1 Gen 1 ports * 2 x USB 2.0/1.1 ports * 1 x RJ-45 port * 3 x audio jacks |
| I/O Controller | iTE® I/O Controller Chip |
| H/W Monitoring | * Voltage detection * Temperature detection * Fan speed detection * Overheating warning * Fan fail warning * Fan speed control \* Whether the fan speed control function is supported will depend on the cooler you install. |
| BIOS | * 1 x 128 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 | * Support for APP Center \* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. @BIOS 3D OSD AutoGreen Cloud Station EasyTune Fast Boot Game Boost ON/OFF Charge RGB Fusion Smart Backup Smart Keyboard Smart TimeLock Smart HUD Smart Survey System Information Viewer USB Blocker * Support for Q-Flash * Support for Xpress Install |
| Bundle Software | * Norton® Internet Security (OEM version) * Realtek® 8118 Gaming LAN Bandwidth Control Utility |
| Operating System | * Support for Windows 10 64-bit * Support for Windows 7 64-bit \* To support Windows 7 64-bit, you must install an AMD Pinnacle Ridge & Summit Ridge CPU. \* Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7. |
| Form Factor | Micro ATX Form Factor; 24.4cm x 20.5cm |
| Warranty | 3 Years |
| Note | \*\*\*Features, Price and Specifications are subject to change without notice. |