- CPU
  1. 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
  1. AMD B450
- Memory
  1. 2 x DDR4 DIMM sockets supporting up to 32 GB of system memory
  2. Dual channel memory architecture
  3. Support for DDR4 3200(O.C.)/2933/2667/2400/2133 MHz memory modules
  4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
     * ECC function is limited if using an AMD Athlon™ 200-series APU.
  5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
  6. Support for Extreme Memory Profile (XMP) memory modules

  (Please refer "Memory Support List" for more information.)

- Onboard Graphics

  Integrated Graphics Processor:

  1. 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz
     * Support for DisplayPort 1.2 version.
  2. 2 x HDMI ports, supporting a maximum resolution of 4096x2160@60 Hz[Note]
     * Support for HDMI 2.0 version and HDCP 2.2.[Note]
     * One of HDMI function is limited if using an AMD Athlon™ 200-series APU.

  Support for up to 3 displays at the same time
  Maximum shared memory of 16 GB

  (Note) Actual support may vary by CPU.

- Audio
  1. Realtek® ALC1220-VB codec
  2. High Definition Audio
  3. 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.
  4. Support for S/PDIF Out
- LAN
  1. Intel® GbE LAN chip (10/100/1000 Mbit)
- Wireless Communication module
  1. Wi-Fi 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band

- 2. BLUETOOTH 5
- 3. Support for 11ac 160 MHz wireless standard and up to 1.73 Gbps data rate
  * Actual data rate may vary depending on environment and equipment.
  ** Only support for Windows 10 64-bit.

- Expansion Slots
  1. 1 x PCI Express x16 slot, running at x16$^{(Note)}$
     (The PCIEX16 slot conforms to PCI Express 3.0 standard.)
  2. 1 x M.2 Socket 1 connector for the wireless communication module (M2_WIFI)

(Note) Actual support may vary by CPU.

- Storage Interface
  1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe 3.0 x4/x2 SSD support)
  2. 4 x SATA 6Gb/s connectors
  3. Support for RAID 0, RAID 1, and RAID 10
- USB

Chipset:

  1. 2 x USB 3.1 Gen 2 Type-A ports (red) on the back panel
  2. 2 x USB 3.1 Gen 1 ports available through the internal USB header
  3. 2 x USB 2.0/1.1 ports available through the internal USB header

Integrated in the APU:

  4. 4 x USB 3.1 Gen 1 ports on the back panel
- Internal I/O Connectors
  1. 1 x 24-pin ATX main power connector
  2. 1 x 8-pin ATX 12V power connector
  3. 1 x CPU fan header
  4. 1 x system fan header
  5. 1 x digital LED strip header
  6. 1 x CPU cooler LED strip/RGB LED strip header
  7. 4 x SATA 6Gb/s connectors
  8. 1 x M.2 Socket 3 connector
  9. 1 x front panel header
  10. 1 x front panel audio header
  11. 1 x S/PDIF Out header
  12. 1 x speaker header
  13. 1 x USB 3.1 Gen 1 header
  14. 1 x USB 2.0/1.1 header
  15. 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)
  16. 1 x Clear CMOS jumper
  17. 1 x chassis intrusion header

- Back Panel Connectors
  1. 1 x DisplayPort
  2. 2 x HDMI ports
  3. 2 x USB 3.1 Gen 2 Type-A ports (red)
  4. 4 x USB 3.1 Gen 1 ports
  5. 1 x RJ-45 port
  6. 2 x SMA antenna connectors (2T2R)
  7. 3 x audio jacks
- I/O Controller
  1. iTE® I/O Controller Chip
- H/W Monitoring
  1. Voltage detection
  2. Temperature detection
  3. Fan speed detection
  4. Overheating warning
  5. Fan fail warning
  6. Fan speed control
     * Whether the fan speed control function is supported will depend on the cooler you install.
- BIOS
  1. 1 x 128 Mbit flash
  2. Use of licensed AMI UEFI BIOS
  3. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
- Unique Features
  1. 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
     V-Tuner
  2. Support for Q-Flash

        3. Support for Xpress Install
- Bundle Software
    1. Norton® Internet Security (OEM version)
    2. cFosSpeed
- Operating System
    1. Support for Windows 10 64-bit
    2. 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
    1. Mini-ITX Form Factor; 17.0cm x 17.0cm
- Remark
    1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.
    2. 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.

* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.
* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.
* All trademarks and logos are the properties of their respective holders.
* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.