

- CPU

AM4 Socket:

1. AMD Ryzen™ processor
2. AMD 7<sup>th</sup> Generation A-series/ Athlon™ processor

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

- Chipset

1. AMD B350

- 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(O.C.)/2667\*/2400/2133 MHz memory modules  
\* Support for higher than DDR4 2667 MHz may vary by CPU.
4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
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. 1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz  
\* Support for HDMI 1.4 version.

Maximum shared memory of 2 GB

\* Actual support may vary by CPU.

- Audio

1. Realtek® ALC1220 codec
2. High Definition Audio
3. 2/4/5.1/7.1-channel
4. Support for S/PDIF Out

- LAN

1. Realtek® GbE LAN chip (10/100/1000 Mbit)

- Wireless Communication module

1. Intel® Wi-Fi 802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band
2. BLUETOOTH 4.2, 4.1, BLE, 4.0, 3.0, 2.1, 2.1+EDR

3. Support for 11ac wireless standard and up to 433 Mbps data rate
  - \* Actual data rate may vary depending on environment and equipment.
- Expansion Slots
  1. 1 x PCI Express x16 slot, running at x16  
(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)
- Storage Interface
  1. 1 x M.2 Socket 3 connector on the back of the motherboard (Socket 3, M key, type 2260/2280 SATA and PCIe x4\*/x2 SSD support)
    - \* Actual support may vary by CPU.
  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. 4 x USB 2.0/1.1 ports (2 ports on the back panel, 2 ports available through the internal USB header)

Integrated in the CPU:

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. 4 x SATA 6Gb/s connectors
  6. 1 x M.2 Socket 3 connector on the back of the motherboard
  7. 1 x front panel header
  8. 1 x front panel audio header
  9. 1 x USB 3.1 Gen 1 header
  10. 1 x USB 2.0/1.1 header
  11. 1 x CPU cooler LED strip/RGB LED strip extension cable header
  12. 1 x RGB (RGBW) LED strip extension cable header
  13. 1 x Trusted Platform Module (TPM) header
  14. 1 x S/PDIF Out header
  15. 1 x speaker header
  16. 1 x Clear CMOS jumper
  17. 1 x chassis intrusion header
- Back Panel Connectors
  1. 1 x PS/2 keyboard/mouse port
  2. 2 x SMA antenna connectors
  3. 1 x DisplayPort

4. 1 x HDMI port
  5. 2 x USB 2.0/1.1 ports
  6. 2 x USB 3.1 Gen 2 Type-A ports (red)
  7. 4 x USB 3.1 Gen 1 ports
  8. 1 x RJ-45 port
  9. 6 x audio jacks (Center/Subwoofer Speaker Out, Rear Speaker Out, Side Speaker Out, Line In, Line Out, Mic In)
- I/O Controller
    1. iTE<sup>®</sup> 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
      - RGB Fusion
      - AutoGreen
      - BIOS Setup
      - Cloud Station
      - Color Temperature
      - EasyTune
      - Fast Boot
      - Game Boost
      - ON/OFF Charge
      - Smart Backup
      - Smart Keyboard
      - Smart TimeLock
      - 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.

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\* 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.