ComX Computers
Product Specification Sheet

GA-AB350N-GAMING-WIFI

Gigabyte AB350N-GAMING Wifi Socket AM4 Mini ITX Motherboard wih AMD B350 Chipset

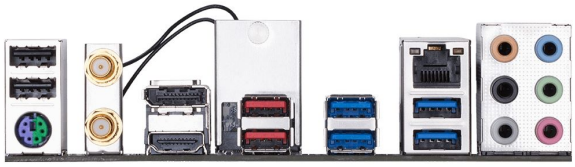
Product Overview

Gigabyte AB350N-GAMING Wifi Socket AM4 Mini ITX Motherboard, Amd Ryzen & 7th Generation A-series, AMD B350 Chipset, 2x DDR4 DIMM sockets supporting up to 32 GB of system memory, High Definition Audio, Realtek GbE LAN chip (10/100/1000 Mbit), Intel Wi-Fi 802.11 a/b/g/n/ac supporting 2.4/5 GHz Dual-Band, BLUETOOTH, 1x PCI Express x16 slot, running at x16, 1x M.2 Socket, 2x USB 3.1 Gen 2 Type-A ports (red) on the back panel, 2x USB 3.1 Gen 1 ports available through the internal USB header, 4x USB 2.0/1.1 ports (2 ports on the back panel / 2 ports available through the internal USB header), 4x USB 3.1 Gen 1 ports on the back panel, 1x RGB (RGBW) LED strip extension cable header, 1x PS/2 keyboard/mouse port, 2x SMA antenna connectors, 1x DisplayPort, 1x HDMI port









Specifications

Overview:

GA-AB350N-Gaming WIFI

- Supports AMD Ryzen & 7th Generation A-series / Athlon Processors
- Dual Channel ECC/ Non-ECC Unbuffered DDR4, 2 DIMMs
- Fast 2 USB 3.1 Gen 2 with USB Type-A
- Feature Intel 802.11ac Dual Band WIFI and Bluetooth 4.2 card
- Ultra-Fast PCIe Gen3 x4 M.2 with PCIe NVMe & SATA mode support

- ALC1220 120dB SNR HD Audio with Smart Headphone Amp
- Realtek Gigabit LAN with cFosSpeed Internet Accelerator Software
- RGB FUSION with Multi-Zone LED Light Show design
- Smart Fan 5 features 5 Temperature Sensors and 2 Hybrid Fan Headers
- GIGABYTE UEFI BIOS
- APP Center Including EasyTune and Cloud Station Utilities

Features:

AMD introduces the latest Ryzen 2000 series processors to provide the computing power for budget gaming need. GIGABYTE's full line of AMD AM4 chipset motherboards perfectly fit the latest AMD Ryzen 2000 series processors computing performance and integrated graphics output. Users can enjoy the benefits brought by AMD Ryzen 2000 series processors by just simply downloading and upgrading the latest BIOS .

Optimal Support for AMD Wraith Max CPU Cooler and DRAM Modules
To ensure the best performance and compatibility, GIGABYTE has allotted additional spacing between the CPU Socket and the DIMM Slots. This gives ample room for airflow while preventing any bending, as well as making room for larger heatsinks on DRAM Modules when paired with large air coolers.

RGB FUSION Set the Color that Matches Your Style
GIGABYTE's motherboards boast the most advanced LED system in the market today. With more customizability than ever and a convenient and intuitive UI thanks to the RGB Fusion App, you'll have a blast making your GIGABYTE your own. LED enthusiasts now have even more options with the ability to customize multiple zones independently. For a more functional use, the bright and vibrant LEDs can be configured to display the PC's temperature or load. For even more LED goodness RGBW strips are now supported for more true and vibrant whites.

Multi-Zone Light Show Design

- 16.8M RGB Colors
- 2 Light Zones
- 7 Different Lighting Effects
- 2 RGB & RGBW Light Strip Pin Headers
- Accent LED with Interchangeable Overlay
- Advanced Mode for Extreme Customizability

GIGABYTE RGB Fusion APP
Don't just make your PC shine, make it a work of art that friends will envy. With the GIGABYTE RGB Fusion mobile app users can watch as they control the lighting within their gaming PC. This gives users ease of access as they try and adjust colors and speeds for different modes, all this can be done away from the keyboard and monitor of their PC.

Surround Lighting
Now offering more LED customizations than ever, users can truly adapt their PC to represent their lifestyle. With full RGB support and a redesigned RGB Fusion application, the user has complete control over the LEDs which surround the motherboard.

Two Onboard Pin Headers for LED Strips
GIGABYTE Motherboards support external RGB, RGBW or RGB/UV light strips on the RGBW pin header and control its color from the RGB Fusion software. By implementing RGBW or RGB/UV LED strips users can have brighter whites and vibrant colors or generate a fluorescent glow, respectively.

No need to worry when choosing light strips as GIGABYTE motherboards support a wide variety of RGBW/-UV light strips on the market thanks to the RGB Fusion software that allows users to redefine the pin location for the R/G/B Signal.

RGB Fusion (Advanced mode)
With the all new RGB Fusion software, users have access to different preset LED lighting configurations with choice of colors. You can even set the LEDs to synchronize with your favorite music or have them change colors to indicate the CPU temperature. For true lighting experts there is an Advanced Mode, which can be fully customized by individual area with its own effects and color transitions, along with specific duration and transition times. Once done, it's simple to save and share your lighting profile with others.

Smart Fan 5
With Smart Fan 5 users can ensure that their gaming PC can maintain its performance while staying cool. Smart Fan 5 allows users to interchange their fan headers to reflect different thermal sensors at different locations on the motherboard. Not only that, with Smart Fan 5 more hybrid fan headers that support both PWM and Voltage mode fans have been introduced to make the motherboard more liquid cooling friendly.

All Hybrid Fan Pin Headers

- All Hybrid Fan Headers can automatically detect the type of cooling device whether it be fan or pump with different PWM or Voltage mode.
- Supports up to 2 amps with built-in overcurrent protection-a must for high-end high current fans.

Interoperable Sensors and Fans
Each fan can be customized to operate at different speeds according to any defined temperature source input (except the CPU fan).

Fan Curve
Customize fan curves based on specific temperatures with the intuitive graphical UI.

Choose from different modes, Quiet to Full Speed, to match your system usage scenario. For each fan or pump, you can use the intuitive fan curve to define trigger thresholds and corresponding fan speeds.

Enhanced BIOS Interface
The enhanced BIOS interface also has the advanced features seen in the Smart Fan 5 UI, such as: the ability to set triggers based on different temperature sensors on the board, fan curve definition and the temperature interval setting, which can prevent fan rotation noise caused by sudden temperature change-all without having to load Windows.

Server-Class Digital Power Design
GIGABYTE motherboards use an all digital CPU power design from International Rectifier which includes both 4th Generation digital PWM Controllers and industry-leading 3rd Generation PowIRstage controllers. These 100% digital controllers offer incredible precision in delivering power to the motherboard's most power-hungry and energy-sensitive components, allowing enthusiasts to get the absolute maximum performance from their new AMD Ryzen CPU.

IR Digital PWM & IR PowIRstage ICs
This new generation of IR digital power controllers and PowIRstage ICs feature Isense technology, which provide more precise current sensing accuracy. This helps evenly distribute the thermal loading between the PowIRstage ICs, preventing the overheating of each individual PowIRstage, resulting in longer lifespan and better reliability.

ALC 1220 120dB SNR HD Audio with Smart Headphone Amp
The ALC1220 is a high-performance multi-channel High Definition Audio Codec with up to 120dB SNR for crystal clear audio and features such as Smart Headphone Amp, 114dB SNR recording for precise voice chats and hardware decoding of DSD128, ensuring users get the best possible audio quality from their PC.

Smart Headphone Amp
Automatically detects impedance of your head-worn audio device, whether earbuds or high-end headphones to provide optimal audio dynamics-preventing issues such as low volume and distortion.

High-End Audio Capacitors
GIGABYTE Gaming motherboards use high-end Chemicon audio capacitors. These high quality capacitors help deliver high resolution and high fidelity audio to provide the most realistic sound effects for gamers.

Realtek GbE LAN with cFosSpeed Internet Accelerator Networking
Realtek GbE LAN features cFosSpeed, a network traffic management application which helps to improve network latency and maintain low ping times to deliver better responsiveness in crowded LAN environments.

Fast Onboard Storage with NVMe PCIe Gen3 x4 2280 M.2 (Up to 32 Gb/s)
GIGABYTE's M.2 solution offers considerably faster storage performance and support for both PCIe and SATA interfaces for M.2 SSD devices.

Faster and Better Coverage with Intel Dual Band 802.11ac WIFI+BT 4.2 Module
The onboard 802.11ac WIFI module from Intel supports up to 433 Mbps, 3x faster WIFI speed than 802.11n and also support BLUETOOTH 4.2.

Fast USB 3.1 Gen 2 Solution
The latest USB 3.1 Gen 2 offers staggering 10Gb/s transfer speeds. 2x faster than USB 3.1 Gen 1 along with backwards compatibility with existing USB devices.

Anti-Sulfur Resistor Design
Sulfur compounds in the air can penetrate tiny onboard resistors creating chemical change and causing these resistors to open or short. If either of these occurs the motherboard will fail to function. By equipping resistors with an Anti-Sulfur Design GIGABYTE gives Ultra Durable Motherboards a whole new meaning.

Refreshed BIOS Easy, Smart, and Friendly
The BIOS is essential for users during initial setup to allow for the most optimal settings. With a new GUI and easier to use functionalities, GIGABYTE has been able to reinvent the BIOS to give users a better experience while setting up their new system.

GIGABYTE APP Center
The GIGABYTE APP Center gives you easy access to a wealth of GIGABYTE apps that help you get the most from your GIGABYTE motherboard. Using a simple, unified user interface, GIGABYTE APP Center allows you to easily launch all GIGABYTE apps installed on your system, check related updates online, and download the latest apps, drivers, and BIOS.

EasyTune
GIGABYTE's EasyTune is a simple and easy-to-use interface that allows users to fine-tune their system settings or adjust system and memory clocks and voltages in a Windows environment. With Smart Quick Boost, one click is all it takes to automatically overclock your system, giving an added performance boost when you need it the most.

Overclocking to Boost Your Frame Rates
Get the highest levels of performance from your PC with easy-to-use GIGABYTE overclocking features.

System Information Viewer
GIGABYTE System Information Viewer is a central location that gives you access to your current system status. Monitor components such as the clocks and processor, set your preferred fan speed profile, create alerts when temperatures get too high or record your system's behavior; these are the possibilities of the System Information Viewer.

@BIOS
The GIGABYTE @BIOS app allows you to update your system's BIOS from within Windows using a simple and slick graphical user interface. @BIOS can automatically download the latest version from the GIGABYTE servers or you can update your BIOS from a file on your computer. @BIOS also allows you to save your current BIOS to a file, recover your previous BIOS

from an image and backup your BIOS to an image.

3D OSD
3D OSD automatically detects and displays your system information during games, allowing you to easily get a hold of your system information without switching between screens.

4K Ultra HD Support
4K resolution is the next technological milestone in high-definition content delivery, utilizing approximately 4,000 pixels on the horizontal axis, more than four times today's standard HD pixel density. GIGABYTE motherboards provide native 4K support with integrated AMD Radeon Graphics via HDMI.

HDMI - The Next Generation Multimedia Interface
HDMI is a High-Definition Multimedia Interface which provides up to 5Gb/s video transmitting bandwidth and 8-channel high quality audio all through a single cable. Able to transmit superior, uncompressed digital video and audio, HDMI ensures the crispest rendering of digital content up to 1080p without the quality losses associated with analog interfaces and their digital-to-analog conversion. In addition, HDMI is compatible with HDCP (High-bandwidth Digital Content Protection), allowing the playback of Blu-ray/HD DVD and other protected media content.

XSplit Gamecaster + Broadcaster: Cast Your Game Anytime, Anywhere
Now set up your stage and share the greatest gaming moments with XSplit Gamecaster + Broadcaster! Fully optimized social media integration is ready for real-time chats-keeping you notified yet focused in the game. It takes just one click to stream your gameplay to Twitch. Host your game like a pro!

*Free 14 days XSplit Gamecaster + Broadcaster Premium License.

Specifications:

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Specifications	
Product Code	GA-AB350N-GAMING-WIFI
CPU	AM4 Socket:
	1. AMD Ryzen processor
	2. AMD 7th 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:
	1. 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 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 Summit Ridge & Bristol 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.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/GA-AB350N-GAMING-WIFI-Gigabyte-AB350N-GAMING-Wifi-Socket-AM4-Mini-ITX-Motherboard-p-188801.php

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