

B350GTX Motherboard



- Support AMD® A-series APU, Ryzen APU / Ryzen CPU
- AMD B350 single chip architecture
- Support 4-DIMM DDR4 1866/2133/2400/2667/2933(OC)/3200(OC)
- Support USB 3.1 Gen2
- Support M.2(32Gb/s)
- Support HDMI® 4K resolution

Specifcation	
CPU SUPPORT	Supports AMD AM4 Socket for 3 rd , 2 nd and 1 st Gen Ryzen/2 nd and 1 st Gen Ryzen with Radeon Vega Graphics/Athlon with Radeon Vega Graphics/7 th Gen A-Series/Athlon X4 Processors
MEMORY	Supports Dual Channel DDR4 1866/2133/2400/2667/2933(OC)/3200(OC) 4 x DDR4 DIMM Memory Slot, Max. Supports up to 64 GB Memory Each DIMM supports non-ECC 8/16 GB DDR4 module * DDR4 - 2667 only for Ryzen CPU. * Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	4x SATA III Connector (6Gb/s): Supports AHCI & RAID 0, 1, 10 1x M.2 (32Gb/s): Supports PCI-E & SATA SSD * M.2 (32Gb/s): The bandwidth is depended on CPU, Ryzen is 32Gb/s; APU is 16Gb/s.
LAN	Realtek RTL 8118AS 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability Support Super LAN Surge Protection
AUDIO CODEC	ALC887 7.1 Channels, High Definition Audio, Hi-Fi(Front)
USB	2x USB 3.1 Gen2 (10Gb/s) port (2 on rear I/Os) 6x USB 3.1 Gen1 (5Gb/s) port (4 on rear I/Os and 2 via internal headers) 4x USB 2.0 port (4 via internal headers)
EXPANSION SLOT	2x PCle 2.0 x1 Slot 1x PCle 2.0 x16 Slot (x4) 1x PCle 3.0 x16 Slot (When using APU, the bandwidth is x8 speed)

	1x PS/2 Keyboard
	1x DVI-D Port
	1x HDMI® Port
REAR I/O	1x LAN port
	2x USB 3.1 Gen2 (10Gb/s) Port
	4x USB 3.1 Gen1 (5Gb/s) Port 3x Audio Jack
	4x SATA III 6.0Gb/s Connector
	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)
	1x USB 3.1 Gen1 (5Gb/s) Header (each header supports 2 USB 3.1 Gen1 ports)
	1x 8-Pin Power Connector
	1x 24-Pin Power Connector 1x CPU Fan Connector
INTERNAL I/O	2x System Fan Connector
	1x Front Panel Header
	1x Front Audio Header
	1x Clear CMOS Header 1x S/PDIF out Connector
	1x COM Port Header
	2x 5050 LED Header
	CPU / System Temperature Monitoring
H/W MONITORING	CPU / System Fan Monitoring
	Smart / Manual CPU / System Fan Control System Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 24.4cm x 23.8cm (W x L)
	Supports Windows 7(64bit) / 10(64bit) / 11(64bit)
OS SUPPORT	* Biostar reserves the right to add or remove support for any OS with or without
1/1	notice.
DUNDUE COETIVADE	Racing GT Utility
BUNDLE SOFTWARE	FLY.NET BullGuard
	4 x SATA Cable
ACCECCODIEC	1 x I/O Shield
ACCESSORIES	1 x DVD Driver
	1 x Quick Guide
	VIVID LED DJ 5050 LED FUN ZONE
	Supports PURO Hi-Fi
FEATURES	Dual BIOS
	Supports 100% Solid capacitor
	BIO-FLASHER Supports BIOS Online Undate
	Supports BIOS Online Update

OVERVIEW



AMD B350 chipset

AMD B350 is the mainstream chipset and offers the most value in terms of I/O and functionality.



AMD AM4 Ryzen CPU support

AMD's new AM4 platform will accompany Ryzen. It brings all of the new tech that you'd expect, including DDR4 RAM, PCI-E Gen 3, USB 3.1 Gen 2, NVMe and SATA Express.

Hi-Fi

A combination of exclusive hardware & software design including "ground-isolation circuit design", "an independent audio power", and "a built=on-board amplifier", with all these hardware features gives you the best audio quality and performance. As for software, we offer you a free bundle utility "Multi-Channel Calibration" which normally you'll find in high level sound systems; this feature allows you to auto detect your location; with a user friendly interface, you can easily adjust the volume of every speakers to make a well balanced surround sound. And of course, the built-on-board amplifier always gives you a super powerful sound comparing to other motherboards.



HD Audio

Provides high quality sound with minimal loss of audio fidelity.



Hi-Fi Power

Audio power is an important factor in audio quality. Most AV equipment isolates the power supply for each analog and digital signal to gather high-quality sound reproduction. Equipped with BIOSTAR Hi-Fi Power technology, it will utilize audio components with independent power design for a significant reduction in electronic noise and superb sound quality.



Hi-Fi Ground

BIOSTAR Hi-Fi Ground (Golden Line) is noise-blocking multi-layer PCB design to isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.



Hi-Fi AMP

The built-in amplifier can drive major high-end headphones with over 100dB loads and offer wide band-width, low noise, high slew rate and low distortion audio source from front panel I/O. Gaming enthusiasts can enjoy a fuller range of dynamic sound with crisper details and less distortion.



Smart Ear

Smart EAR is a windows-based audio utility which allows you to easily adjust system volume. With its user-friendly GUI, you can also increase or decrease impedance setting (Low/High Gain) to optimize your headphone performance. You can easily enjoy high-quality and awesome sound.



Hi-Fi Resistor

Metal-oxide film resistors are made of metal oxides such as tin oxide. The electric characteristics are greater stability and reliability than regular metal film resistors when operating in an extremely broad working temperature range. This special component is used in applications with high endurance audio demands.



Hi-Fi Cap

BIOSTAR Hi-Fi series motherboards come with high quality 'Non-Polarized Electrolysis Electric audio capacitors' for each audio channel circuit. The customized audio capacitors deliver low noise, low distortion, and wide bandwidth to achieve the highest sound resolution and sound expansion. The critical component will ensure the most realistic sound effects to gaming enthusiasts.



HDMI® 4K2K

The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI® cable for displaying 4K2K data.



DVI

DVI is better than VGA for LCD displays since it is digital while VGA is analog. For LCD displays, the picture is digitized pixel per pixel. Through DVI, the panel gets data for each pixel, so the picture generated in the Graphics device matches the pixels on the panel itself.



FLY.NET

This exclusive utility will automatically detect the bandwidth of other software and increase the internet speed for online games.



USB 3.0

Experience Fastest data transfers at 5 Gbps with USB 3.0--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.0 transfers data 10X faster and backward compatible with previous USB 2.0 components.



USB 3.1

USB 3.1 is a new standard known as SuperSpeed +, in order to highlight the improvement from USB3.0 (SuperSpeed) transmission speed. The new standard doubles data transfer rate from 5Gbps to 10Gbps. It is also backward compatible with existing USB3.0 connectors and all the USB 2.0 devices.



PCIe M.2 32Gb/s

PCI-e M.2 32Gb/s delivers the highest bandwidth and lower latency. It is 3 times faster compared with PCI-e M.2 10Gb/s.



PCle 3.0

PCIe 3.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



Dual DDR4

The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.



Moisture proof of PCB

The popularity of PC usage and working environment is getting deteriorating and moist (rural, coastal, etc.). The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moisture-proof PCB meets high density and high reliability requirements for moisture proof.



Low RdsOn P-Pak MOS

Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.



100% Solid Caps

With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.



Dual BIOS

Dual BIOS technology offers a backup BIOS chip to take over the failed main BIOS and recover the system automatically without factory repair.



Super Anti-Surge Protection

BIOSTAR exclusive Anti-Surge design provides the best protection of board and extends the product life. Having the latest model of "Transient Voltage Suppressor" on- board can effectively protect the board circuit, reducing the shocks caused by ESD as well as other damages arising from overvoltage transients to enhance system durability.



Super LAN Surge Protection

Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.



ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.



USB Polyswitch

On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.



BIOS Virus Protection

When enabled, the BIOS will protect the boot sector and partition table by halting the system and flashing a warning message whether there's an attempt to write to these areas.



OC / OV / OH Protection

OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.



VIVID LED DJ

Racing Series exclusively features on-board LED design. Via the creative Vivid LED DJ application, you can control and modify the colours of LED on MOS heatsink and on the edge of board. When you play music, it can perform LED light show, following melody. Moreover, Vivid LED DJ features options for designing LED visual effect, including Normal, Eco, and Sports mode on your own. Racing Series with Vivid LED DJ make your PC a coolest gaming base ever.



5050 LED Fun ZONE

The brand-new 5050 LED FUN ZONE comes with two 5050 LED headers to bring more colorful lighting options to DIY lovers. They can fully enjoy the DIY fun of modding their PCs with uniquely personal style and LED strip or any kind of LED product to adjust the color of LED and change system color scheme by VIVID LED DI application. Vivid LED DI fun, Vivid LED lighting style!



UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.



Header Zone

Users can easily assemble their own computer, a simple-swap data discs and other accessories.



HDMI®

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*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!



