

B560GTQ Motherboard



- Supports 10th/11th Generation Intel Core™ Processor
- Intel B560 single chip architecture
- Supports 4-DIMM DDR4- 2133/ 2400/ 2666/ 2800/ 2933/3200/ 3600(OC)/ 3733(OC)/ 3800(OC)/ 3866(OC)/ 4000+(OC) up to 128 GB Memory
- Supports PCIe 4.0
- Supports PCIe M.2 4.0 (64Gb/s)
- Supports Intel Optane Technology
- Supports HDMI 2.0
- Supports 2.5 GbE LAN
- Supports USB 3.2 Gen2x2 Type C
- Supports WiFi 6 module (No WiFi 6 card included)

Specification

CPU SUPPORT	第10代/第11代LGA1200架構, 支援Intel Core™ i9/ i7/ i5/ i3處理器和Intel Pentium 處理器/Intel Celeron 處理器 Supports Intel Turbo Boost Max 3.0 Technology 請瀏覽映泰網站 www.biostar.com.tw 獲得CPU的支援列表
MEMORY	支援雙通道 DDR4 4000+(OC)/ 3866(OC)/ 3800(OC)/ 3733(OC)/ 3600(OC)/ 3200/ 2933/ 2800/ 2666/ 2400/ 2133 4 x DDR4 DIMM 插槽, 支援最高容量為 128 GB 每根DIMM支援non-ECC 4/ 8/ 16/ 32 GB DDR4記憶體模組 支援Intel Extreme Memory Profile(XMP)記憶體技術 * 請瀏覽映泰網站 www.biostar.com.tw 獲得記憶體的支援列表
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	-- 總量共支援2x M.2插槽和6x SATA III(6Gb/s)接頭 6 x SATA III接頭 (6Gb/s) : 支援 AHCI & Intel 快速儲存技術 1 x M.2 (M Key) 插槽 (M2_PCIEG4_64G_11TH_ONLY): 支援 M.2 Type 2280 SSD模組 支援 PCI-E 4.0 x4 (64Gb/s) 僅供支援第11代處理器 1 x M.2 (M Key) 插槽 (M2_PCIEG3_32G_SATA_RST_1): 支援 M.2 Type 2242/ 2260/ 2280/ 22110 SSD模組 支援 PCI-E 3.0 x4 (32Gb/s) 和SATA III (6.0Gb/s) SSD 支援 Intel 快速儲存技術, Intel Optane技術 *M.2(M Key)插槽(M2_PCIEG4_64G_11TH_ONLY)僅支援第11代Rocket Lake-S CPU。 * 當SATA模式佔用M.2(M2_PCIEG3_32G_SATA_RST_1)插槽時, SATA_6連接器將被禁用。
LAN	Realtek RTL8125B 10/ 100/ 1000/ 2500 Mb/s 半/全雙功能, 自動協商模式
AUDIO CODEC	ALC1220 7.1聲道, 支援高解析音效輸出, Hi-Fi (前置)

USB	1 x USB 3.2 (Gen2x2) Type-C 連接埠(後側面板1個連接埠) 2 x USB 3.2 (Gen2) 連接埠(後側面板2個連接埠) 5 x USB 3.2(Gen1) 連接埠(後側面板3個連接埠，內連接頭支援2個連接埠) 6 x USB 2.0 連接埠(後側面板2個連接埠，內連接頭支援4個連接埠)
EXPANSION SLOT	1 x PCIe 3.0 x 1 插槽 1 x PCIe 4.0 x 16 插槽 (x16 模式) 1 x PCIe 3.0 x 16 插槽 (x4 模式) * According to different CPUs will have different speeds. * PCIe 4.0 speed only for INTEL 11th Gen CPUs.
REAR I/O	2 x WIFI 天線接頭 1 x PS/2 鍵盤/滑鼠連接埠 1 x HDMI 連接埠(HDMI2.0) 1 x DP 連接埠 1 x DVI-D 連接埠 1 x USB 3.2 (Gen2x2) Type-C 連接埠 2 x USB 3.2 (Gen2) 連接埠 3 x USB 3.2 (Gen1) 連接埠 2 x USB 2.0 連接埠 1 x 2.5 GbE LAN 連接埠 3 x 音效接孔
INTERNAL I/O	6 x SATA III 接頭(6Gb/s) 1 x M.2 (E Key) 插槽 : 2230尺寸,支援Wi-Fi/ Bluetooth/ Intel CNVi 2 x USB2.0連接埠(每個接頭支援2個USB2.0連接埠) 1 x USB3.2(Gen1)連接埠(每個接頭支援2個USB3.2(Gen1)連接埠) 1 x 電源插槽(8-pin) 1 x 電源插槽(24-pin) 1 x CPU 風扇接頭 1 x CPU 水冷接頭 (CPU_OPT) 3 x 系統風扇接頭 1 x 前置面板接頭 1 x 前置音效接頭 1 x 內部立體聲揚聲器接頭 1 x 清除CMOS組態資料接頭 1 x 序列埠接頭 1 x TPM 接頭 1 x Thunderbolt 3 接頭 2 x LED 接頭(5V) 1 x LED 接頭(12V) 1 x IO LED 接頭 1 x SB LED 接頭 * 不提供M.2 (E Key) Wi-Fi卡
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control System Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 24.4 cm x 24.4cm (W x L)
OS SUPPORT	Supports Windows 10(64bit) / 11(64bit) ※如有增加或減少任何OS支援，Biostar保留不預先通知的權利。
BUNDLE SOFTWARE	Racing GT Utility BullGuard
ACCESSORIES	4 x SATA Cable 1 x DVD Driver 1 x Quick Guide
FEATURES	VIVID LED DJ M.2 Cooling Protection Tweak Tech BIO-FLASHER A.I FAN LED ROCK ZONE RGB Memory Sync BIOS EZ Mode /Advanced Mode Intel Optane technology

OVERVIEW

	<h2>Intel B560 chipset</h2> <p>With the Intel® B560 chipset and the 10th/11th generation Intel® Core™ i9/ i7/ i5/ i3 processors and Intel® Pentium® processors, you will immediately be at the forefront of the battlefield, fueled by mind-blowing power and performance. From content creation to gaming, the Intel B560 chipset provides you with the power and performance you need.</p>
	<h2>Hi-Fi</h2> <p>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.</p>
	<h2>HD Audio</h2> <p>Provides high quality sound with minimal loss of audio fidelity.</p>
	<h2>Hi-Fi Ground</h2> <p>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.</p>
	<h2>Hi-Fi AMP</h2> <p>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.</p>
	<h2>Smart Ear</h2> <p>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.</p>
	<h2>Hi-Fi Cap</h2> <p>Hi-Fi Cap delivers low noise, low distortion, and wide bandwidth to achieve the highest sound resolution and sound expansion. It ensures the most realistic sound effects to gaming enthusiasts.</p>
	<h2>HDMI 2.0</h2> <p>HDMI 2.0 supports true 4K resolution- 4096*2160@60hz. A significant increase in bandwidth is up to 18mbps, and significant enhancements are added to support the continued increase consumer demands on video and audio experience.</p>

	<h3>HDMI 4K2K</h3> <p>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.</p>
	<h3>DVI</h3> <p>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.</p>
	<h3>DisplayPort</h3> <p>DisplayPort is a digital display interface developed by the Video Electronics Standards Association (VESA). The interface is primarily used to connect a video source to a display device such as a computer monitor, though it can also be used to carry audio.</p>
	<h3>DX12</h3> <p>DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.</p>
	<h3>SATAIII 6Gbps</h3> <p>SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.</p>
	<h3>Dual DDR4</h3> <p>The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.</p>
	<h3>PCIe 4.0</h3> <p>PCIe 4.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 3.0, while preserving compatibility with software and mechanical interfaces.</p>
	<h3>PCIe 4.0 M.2</h3> <p>PCIe 4.0 M.2 delivers the highest bandwidth and lower latency. It is 2 times faster compared with PCIe 3.0 M.2 .</p>
	<h3>USB 3.2 Gen1 Type-A</h3> <p>USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.</p>

	<h3>USB 3.2 Gen2 Type-A</h3> <p>USB 3.2 Gen2 is a new standard called SuperSpeed USB 10Gbps to address increased performance and improve data transmission speed. It is for a max data transfer rate of 10Gbps and creates the best possible connection between your devices.</p>
	<h3>Intel Optane Memory Ready</h3> <p>Intel Optane memory can accelerate traditional storage devices to reduce boot times and improve the overall performance, like a brand-new system. This revolutionary memory technology transforms your old PC to a performance monster without expensive SSD.</p>
	<h3>Dr. MOS</h3> <p>Dr. MOS integrates driver ICs and high-side / low-side MOSFETs into a small package to reduce switching losses that enables superior efficiency and performance at higher switching frequencies.</p>
	<h3>USB 3.2 Gen2x2</h3> <p>USB 3.2 Gen2x2 is a new standard called SuperSpeed USB 20Gbps to address increased performance and improve data transmission speed. It is for a max data transfer rate of 20Gbps and creates the best possible connection between your devices.</p>
	<h3>Digital PWM</h3> <p>Digital PWM controller is with dual-output multiphase that faster transient performance and accurately regulated frequency control. It can be enabled to greatly increase system efficiency.</p>
	<h3>Super Durable Solid Caps</h3> <p>The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.</p>
	<h3>Iron Slot Protection</h3> <p>The exclusive Iron Slot Protection can reinforce PCI-E x16 slots to handle heavier graphics cards, prevent bending, and extend longevity of the slot, making the new-gen RACING Series much more robust.</p>
	<h3>Tough Power Connectors</h3> <p>Tough Power Connectors are very robust that have larger area to ensure stable and reliable power supply. They can pack more power and durability to make your PC last longer.</p>
	<h3>Super Durable Inductor</h3> <p>Super Durable Inductor brings the benefits of higher current capacity, lower energy loss and better power stability.</p>

	<h3>Moistureproof PCB</h3> <p>The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moisture proof.</p>
	<h3>M.2 Cooling Protection</h3> <p>M.2 heatsink features ultra-high cooling efficiency for protecting the M.2 SSD from thermal problems, extending the M.2 SSD lifespan for long-term usage and stable operation. To top it off, this cooling design makes the performance of certain M.2 (PCI-e 3.0x4) products most efficient even under high-temperature operating.</p>
	<h3>ESD Protection</h3> <p>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.</p>
	<h3>OC / OV / OH Protection</h3> <p>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.</p>
	<h3>Armor Gear</h3> <p>The new Armor Gear, which offers more stability and durability, comes with I/O Armor to protect I/O interfaces from static electricity. It is equipped with full-color RGB LED light that users can use VIVID LED DJ to synchronize it and build your own color gaming lights.</p>
	<h3>2.5Guard</h3> <p>2.5GUARD features 2.5G having higher data transfer speeds and can strengthen electrical stability and prevent damage from lightning strikes and electrical surges. It's 2.5X improvement than standard Ethernet connections.</p>
	<h3>VIVID LED DJ</h3> <p>New VIVID LED DJ with more customizability and options to control multiple RGB/ARGB LED lighting zones independently. Users can control color, speed and brightness for different modes at ease.</p>
	<h3>UEFI BIOS</h3> <p>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 lead users into the setup layer directly.</p>
	<h3>EZ Mode</h3> <p>BIOSTAR EZ Mode makes everything as simple and efficient as possible. It has an attractive easy-to-use BIOS system interface that guides users to solve their problems with ease. It lays out the things which you often do in BIOS system to make the flow smooth and seamless.</p>

	<h3>BIO-Flasher</h3> <p>BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.</p>
	<h3>A.I FAN</h3> <p>With A.I FAN users can ensure that their gaming PC can maintain its performance while staying cool. According to different cooling needs and usage scenarios, users can control speed modes. Allows users to have more customizability of fan modes and automatically detects different temperatures to make fan operate at defined speed for optimal cooling performance.</p>
	<h3>LED ROCK ZONE</h3> <p>LED ROCK ZONE comes with the RGB 12V LED header and Digital 5V LED header which offer more colorful lighting options to DIY lovers. Adjusting the color of LED and changing system colors by VIVID LED DJ will make you fully enjoy the process of PC modding developing your personal style.</p>
	<h3>CPU OPT</h3> <p>BIOSTAR offers one more fan header which is called CPU OPT. Users can use it to connect any kind of water coolers for a liquid cooling system. Keep your computer stable and enjoy your machine at the utmost potential.</p>
	<h3>BIOSTAR RGB SYNC</h3> <p>BIOSTAR RGB SYNC is designed to create your personalized lighting effects. Let all the RGB peripherals and components sync together.</p>
	<h3>Debug LED</h3> <p>Debug LED helps you identify any issues going with your board or hardware. When error occurs, the corresponding LED lights will inform you on the status of your board or hardware to shorten the test time effectively.</p>
	<h3>A.I TP Control</h3> <p>A.I TP Control is designed for overclockers. It provides a user-friendly BIOS environment that overclockers can adjust the temperature setting to keep your PC safe and enjoy extreme overclocking performance.</p>
	<h3>HDMI</h3> <p>The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.</p>

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