

B550GTQ 5.0 Provide the set of t
 Supports 4-DIMM DDR4- 4933+(OC)/4800(OC)/4600(OC)/4400(OC)/4000(OC)/3800(OC)/3 600(OC)/3200(OC)/2933/2667/2400/2133/1866 up to 128GB maximum capacity
Supports USB 3.2 Gen2
Supports PCIe M.2 4.0 (64Gb/s)
 Supports HDMI 4K resolution •

Chipset	• AMD B550
CPU SUPPORT	 Socket AM4 support AMD Supports 3rd Gen AMD Ryzen™ (Matisse / Renoir) processors Support for future AMD Ryzen processors with BIOS update * Please refer to www.biostar.com.tw for CPU support list.
MEMORY	 3rd Gen AMD Ryzen Processors (Matisse CPUs) Support for DDR4 4400+(OC) / 4000(OC) / 3800(OC) / 3600(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 / 1866 3rd Gen AMD Ryzen with Radeon Graphics Processors (Renoir APUs) Support for DDR4 4933+(OC) / 4800(OC) / 4600(OC) / 4400(OC) / 4000(OC) / 3800(OC) / 3600(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 / 1866 4 x DDR4 DIMM Memory Slot, Max. Supports up to 128 GB Memory



	 Each DIMM supports non-ECC 8/ 16/ 32 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	 6 x SATA III Connector (6Gb/s) : Supports AHCI & RAID 0, 1, 10 2 x M.2 (M Key) Socket: Supports M.2 Type 2242/ 2260/ 2280 SSD module Supports PCIe 4.0 x 4 (64Gb/s)/ 3.0 x 4 (32Gb/s) - NVMe/ AHCI SSD Supports SATA III (6.0Gb/s) SSD * M.2 (M Key) Socket: The bandwidth is depended on CPU. Supports PCIe 4.0 x 4 (64Gb/s) speed, which depends only on Ryzen 3rd Gen Matisse. * When PCIe-M2_2 slot is occupied by PCIe mode, the SATA3/ SATA4 connector will be disabled. * When PCIe-M2_2 slot is occupied by SATA mode, the SATA3 connector will be disabled.
LAN	 Realtek RTL 8118AS 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability Support Super LAN Surge Protection
AUDIO CODEC	 ALC1150 7.1 Channels, High Definition Audio, Hi-Fi (Front)



	• 1 x USB 3.2 (Gen2) Type-C port (1 on rear I/O)
	• 1 x USB 3.2 (Gen2) Type-A port (1 on rear I/O)
USB	• 6 x USB 3.2 (Gen1) port (4 on rear I/Os and 2 via internal headers)
	• 6 x USB 2.0 port (2 on rear I/Os and 4 via internal headers)
	•
	 1x PCIe 4.0/ 3.0 x16 Slot (PEX16_1):
	 Supports x 16 lanes with AMD Ryzen[™] 3rd Gen processors. (Matisse only)
	 Supports x 8 lanes AMD Ryzen[™] with Radeon Vega Graphics processors. (depended on CPU)
	• 1 x PCIe 3.0 x 16 Slot (PEX16_SB_1): Supports x 4 lanes
EXPANSION SLOT	• 2 x PCIe 3.0 x 1 Slot
	• * According to different CPUs will have different speeds.
	• * PCIe 4.0 speed only for AMD Ryzen™ 3rd Gen Matisse.
	 * When using PEX1_1 slot, PEX16_SB_1 slot will be adjusted to x 1 lanes.
	•
	1 x PS/2 Keyboard / Mouse
	• 1 x DVI-D Port
	• 1 x DP Port
	1 x HDMI Port
	• 1 x LAN port
REAR I/O	• 1 x USB 3.2 (Gen2) Type-C Port
	• 1 x USB 3.2 (Gen2) Type-A Port
	• 4 x USB 3.2 (Gen1) Port
	• 2 x USB 2.0 Port
	• 3 x Audio Jack
	•
	6 x SATA III (6.0Gb/s) Connector
INTERNAL I/O	• 2 x USB 2.0 Header (each header supports 2 USB 2.0 ports)



 1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports)
• 1 x 8-Pin Power Connector
• 1 x 24-Pin Power Connector
1 x CPU Fan Connector
• 1 x CPU water cooling connector (CPU_OPT)
2 x System Fan Connector
• 1 x Front Panel Header
• 1 x Front Audio Header
• 1 x Clear CMOS Header
1 x S/PDIF out Connector
• 1 x COM Port Header
• 2 x LED Header (5V)
• 1 x LED Header (12V)
•
CPU / System Temperature Monitoring
CPU / System Fan Monitoring
Smart / Manual CPU Fan Control
System Voltage Monitoring
• Micro ATX Form Factor Dimension: 24.4cm x 24.4cm (W x L)
Supports Windows 10(64bit)

•
•
BullGuard
• 4 x SATA Cable
• 1 x DVD Driver
• 1 x Quick Guide



FEATURES	VIVID LED DJ
	M.2 Cooling Protection
	Supports A.I FAN
	Iron Slot Protection
	• PCI-E M.2 4.0
	LED ROCK ZONE
	Super LAN Surge Protection
	•

Cooperatives

AITC	
Apacer	Apacer Access the best
達多科技	ARES 戰の神
Asgard	<mark>Asgさrd</mark> 阿斯加特
Bitspower	Bitspower*

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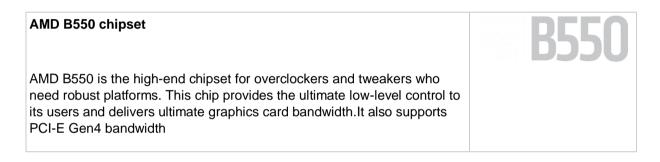


FSP	POWER NEVER ENDS
GelL	Geil
G.SKILL	G.SKILL
HyperX	HYPER
RAZER CHROMA	WORKS WITH RAZER CHROMA RGB
SilverStone	SilverStone
T-Force	TFORCE
TT thermaltake	thermaltake



V-color V-COLOC XigmaTek

CPU-Chipset Features



Audio+

HD Audio

Provides high quality sound with minimal loss of audio fidelity.





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 Sound BIOSTAR Hi-Fi series motherboards have a sampling rate of 192kHz/24bit which delivers a high quality audio through an analog connection to your home theater system, multi-channel speakers and high-end headphone. You can enjoy real Blu-ray grade high-definition sound that you've never experienced before. 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 Cap 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.

Video+



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.

DisplayPort

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.

DX12

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.

ATI CrossFire X[™] Technology

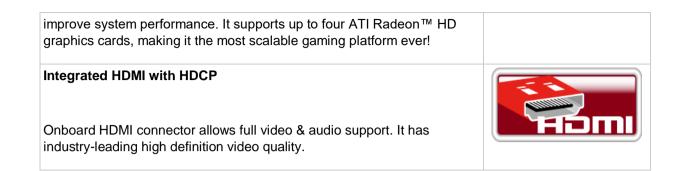
ATI CrossFireX[™] is the ultimate multi-GPU performance gaming platform. With game-dominating power, ATI CrossFireX technology enables two or more discrete graphics processors to work together to



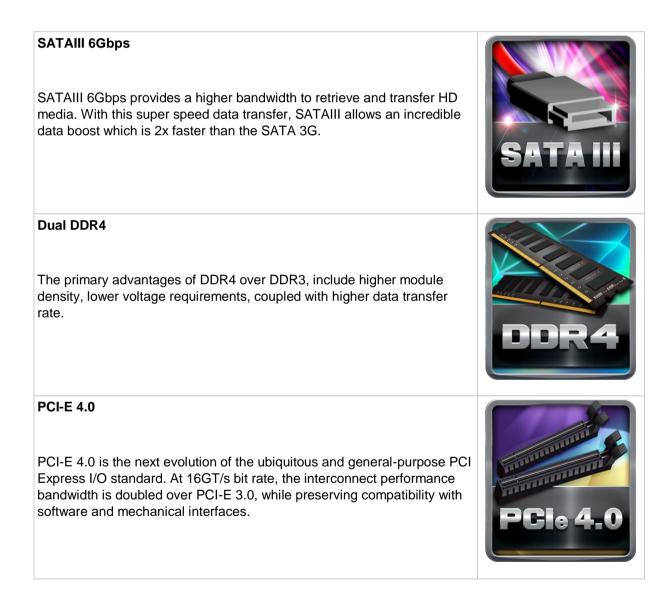
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The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!





Speed+





PCI-E M.2 4.0PCI-E M.2 4.0 is the latest storage interface, it delivers the highest
bandwidth and lower latency. It's 2 times faster compared with PCI-e M.2
3.0.Image: Compare and Com

Durable+

Super Durable Ferrite Choke

Super Durable Ferrite Choke brings the benefits of higher current capacity, lower energy loss and better power stability.



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Super Durable Solid Caps The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.	SOLID CAPS
Moistureproof 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.	Moistureproof PCB
Iron Slot Protection 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.	IRON SLOT PROTECTION

Protection+

M.2 Cooling Protection

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.





TIDER

STIPGE-PROTECTIO

Corrent / Voltage / Heat Protection

BullGuard[®]

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.

OC / OV / OH Protection

All BIOSTAR special circuit 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. Over current protection, avoid motherboard from damage when doing overclock or an unusual current import. Over heat protection, avoid motherboard & CPU from burning when exceeding the temperature limitation.

BullGuard Internet Security (90 days FREE trial)

BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!

Armor Gear

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.

DIY+

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Vivid LED DJ 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. **RACING UEFI BIOS** Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-touse graphical user interface. The UEFI comes with a colorful easyunderstand icons leads users into the setup layer directly. EZ Mode 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. A.I FAN 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. Furthermore, A.I FAN support both PWM and DC voltage fans for more cooling options.



LED ROCK ZONELED 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.Image: CPU OPTBIOSTAR 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.Image: CPU OPTBIOSTAR RGB SYNCBISOTAR RGB SYNC is designed to create your personalized lighting
effects. Let all the RGB peripherals and components sync together.Image: CPU OPT

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