

Z270GT4 Motherboard



- Supports 7th Generation Intel® Core™ Processor, enables overclocking on Unlocked Intel Core Processors
- Intel Z270 single chip architecture
- Support 4-DIMM DDR4-3200(OC)/ 2400/ 2133/ 1866 up to 64G maximum capacity
- BIOSTAR Hi-Fi Technology inside
- Support USB 3.0 Type-C
- Support M.2(32Gb/s)(Intel® Optane™ Technology Ready)
- Support U.2(32Gb/s)(Intel® Optane™ Technology Ready)
- Support HDMI® 4K resolution

Specifcation

CPU SUPPORT	7th & 6th Gen Intel® Core™ i7 LGA 1151 Processor 7th & 6th Gen Intel® Core™ i5 LGA 1151 Processor 7th & 6th Gen Intel® Core™ i3 LGA 1151 Processor 7th & 6th Gen Intel® Pentium® LGA 1151 Processor 7th & 6th Gen Intel® Celeron® LGA 1151 Processor Maximum CPU TDP (Thermal Design Power) : 95Watt
MEMORY	Support Dual Channel DDR4 3200(OC)/ 2400/ 2133/ 1866 MHz 4 x DDR4 DIMM Memory Slot Max. Supports up to 64GB Memory
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	6 x SATA III Connector Support SATA RAID: 0,1,5,10 1 x U.2 32Gb/s Connector, support PCI-E Storage(Intel® Optane Technology ready) 1 x M.2 (M Key) 32Gb/s Connector, support M.2 type 2242/ 2260/ 2280 SATA 6Gb/s & PCI-E Storage(share w/ SATA_1)(Intel® Optane Technology ready) Support PCI-E Storage RAID: 0,1
LAN	Intel i219V - Gigabit Ethernet PHY Support Super LAN Surge Protection
AUDIO CODEC	Realtek ALC892 8-Channel Blu-ray Audio Support Blu-ray Audio Support HD Audio Support Biostar Hi-Fi
USB	1 x USB 3.0 Type-C Port 3 x USB 3.0 Port 1 x USB 3.0 Header 2 x USB 2.0 Port 2 x USB 2.0 Header

EXPANSION SLOT	2 x PCI-E 3.0 x16 Slot(x16, x4) 2 x PCI-E 3.0 x1 Slot
REAR I/O	1 x PS/2 1 x USB 3.0 Type-C Port 3 x USB 3.0 Port 2 x USB 2.0 Port 1 x DisplayPort Connector, resolution up to 4096 x 2304 @60Hz(Optional) 1 x HDMI® Port 1 x DVI-D Connector 1 x VGA Port 1 x LAN Port 6 x Audio Jacks
INTERNAL I/O	1 x USB 3.0 Header 2 x USB 2.0 Header 6 x SATA III Connector (6Gb/s) 1 x U.2 32Gb/s Connector, support PCI-E Storage(Intel® Optane Technology ready) 1 x M.2 Key M 32Gb/s Connector, support M.2 type 2242/ 2260/ 2280 SATA 6Gb/s & PCI-E Storage(share w/ SATA_1)(Intel® Optane Technology ready) 1 x Front Audio Header 1 x Front Panel Header 1 x S/PDIF-Out Header 1 x CPU Fan Connector 2 x System Fan Connector 1 x LN2 Switch 2 x 5050 LED Header 1 x Thunderbolt 3 Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU / System Fan Control System Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 24.4cm x 24.4cm (W x L)
OS SUPPORT	Supports Windows 10(x64) /11(x64) for Intel 7th Generation Processor ※Support Windows 7 / 8.1(x64) / 10(x64) / 11(x64) for Intel 6th Generation Processor
BUNDLE SOFTWARE	Racing GT Utility BullGuard Intel Rapid Storage Technology(Optional)
ACCESSORIES	4 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x User Manual 1 x RGB LED Adapter Cable
FEATURES	VIVID LED DJ 5050 LED FUN ZONE Supports PURO Hi-Fi(Front) GT TOUCH Supports 100% Solid capacitor Rapid Debug3 Supports Charger Booster Supports BIOS Online Update

OVERVIEW

	Intel Z270 chipset With the Intel® Z270 chipset and the 7th generation Intel® Core™ processors, you will immediately be at the forefront of the battlefield, fueled by mindblowing power and performance. From content creation to gaming, the Intel Z270 chipset provides you with the power and performance you need.
	Intel® Optane™ Technology Ready With Intel® Optane™ technology you can unleash the power of your processor instead of it working at a fraction of its power. Eliminating that bottleneck requires better storage memory that is fast, inexpensive, and non-volatile. Intel® Optane technology has the potential to revolutionize big data, high-performance computing, virtualization, storage, cloud, gaming, and many other applications.
	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.
	Blu-ray Audio Upgrading your Audio performance in the easiest way is choosing BIOSTAR ultimate Motherboard. It does support Blu-ray audio DRM (compatible driver/software) and provide the higher audio output of 24 bit/ 192KHz than the 16 bit/ 48KHz from the normal MB. You will experience the high quality sound effect with pure Blu-Ray Audio.
	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 Sound BIOSTAR Hi-Fi series motherboards have a sampling rate of 192kHz/24-bit 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.
	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 110dB+ Embrace exceptional sound quality for the win with 110dB SNR and stylish and efficient EMI shield blocks electromagnetic interference to help provide cleaner audio. It has achieved a signal-to-noise ratio (SNR) of 110dB, yielding almost loss-less audio form rear audio connectors.
	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.
	Intel GbE LAN Unlike ordinary LAN solution, Intel® GbE LAN offers fewer CPU resource consumption and more bandwidth stability. Thus, Intel® LAN is the best choice for performance seekers.
	USB 3.0 Type-C USB 3.0 Type-C supports up to 5Gbps data transfer speed and is backward compatible with all existing USB3.0 devices. Moreover, it features fool-proof and reversible design more convenient to use.
	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.

	PCIe U.2 Connector PCIe U.2 connector supports PCIe 3.0 x4 NVMe storage. It delivers the fast bandwidth up to 32Gb/s with stable data transfer and low latency as well. Meanwhile, it is almost 5 times faster than the speed of SATA III interface with 6Gb/s.
	PCIe 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.
	Moistureproof 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.

	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 BIOSTAR Racing motherboard comes with the exclusive 5050 LED FUN feature for DIY lovers. You can connect LED strip with on-board 5050 header directly and control it via Vivid LED DJ.
	GT TOUCH GT Touch features exclusive Sport and ECO Mode. Under Sport mode, the system boosts the performance automatically. Under ECO mode, the system optimizes energy consumption. Besides, users could define onboard LED configuration for ECO and Sport Mode respectively via Vivid LED DJ.
	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® 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.

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