▶ GA-Z68X-UD4-B3 (rev. 1.0)

Intel® Z68 Chipset

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Product Comparison

CPU Support List

Memory Support List

Accessory Optional



Overview	Specification	Downloads	News/Awards	Learn more	
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СРИ	 Support for Intel[®] Core[™] i7 processors/Intel[®] Core[™] i5 processors/ Intel[®] Core[™] i3 processors/Intel[®] Pentium[®] processors/Intel[®] Celeron[®] processors in the LGA1155 package L3 cache varies with CPU (Please refer "CPU Support List" for more information.) 				
Chipset	1. Intel [®] Z68 Ex	press Chipset			
Memory	* Due to Wind memory is ins 2. Dual channel 3. Support for D 4. Support for no 5. Support for Ex	dows 32-bit operat stalled, the actual memory architect DR3 2133/1866/10 on-ECC memory n ktreme Memory Pi	memory size displaye ure 500/1333/1066 MHz n	when more than 4 GB of physical ed will be less than 4 GB. nemory modules	
Audio	 Realtek ALC889 codec High Definition Audio 2/4/5.1/7.1-channel Support for Dolby[®] Home Theater Support for S/PDIF Out 				
LAN	1. 1 x Realtek RTL8111E chip (10/100/1000 Mbit)				
Expansion Slots	 1 x PCI Express x16 slot, running at x16 (PCIEX16) * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. 				

	 1 x PCI Express x16 slot, running at x8 (PCIEX8) * The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When the PCIEX8 slot is populated, the PCIEX16 slot will operate at up to x8 mode. 2 x PCI Express x1 slots (All PCI Express slots conform to PCI Express 2.0 standard.) 2 x PCI slots 			
Multi-Graphics Technology	 Support for ATI CrossFireX™/NVIDIA SLI technology * The PCIEX16 slot operates at up to x8 mode when ATI CrossFireX™/NVIDIA SLI is enabled. 			
Storage Interface	Chipset: 1. 2 x SATA 6Gb/s connectors (SATA3_0~SATA3_1) supporting up to 2 SATA 6Gb/s devices 2. 4 x SATA 3Gb/s connectors (SATA2_2~SATA2_5) supporting up to 4 SATA 3Gb/s devices 3. Support for SATA RAID 0, RAID 1, RAID 5, and RAID 10 * When a RAID set is built across the SATA 6Gb/s and SATA 3Gb/s channels, the system performance of the RAID set may vary depending on the devices being connected. 2 x Marvell 88SE9172 chips: 1. 2 x SATA 6Gb/s connectors (GSATA3_6, GSATA3_7) supporting up to 2 SATA 6Gb/s devices 2. 2 x eSATA 6Gb/s connectors (including one eSATA/USB Combo) on the back panel supporting up to 2 SATA 6Gb/s devices 3. Support for SATA RAID 0 and RAID 1			
USB	Chipset: 1. Up to 14 USB 2.0/1.1 ports (8 on the back panel, including 1 eSATA/USB Combo, 6 via the USB brackets connected to the internal USB headers) 2 x Etron EJ168 chips: 1. Up to 4 USB 3.0/2.0 ports (2 on the back panel, 2 via the USB bracket connected to the internal USB header)			
IEEE 1394	VIA VT6308 chip: 1. Up to 2 IEEE 1394a ports (1 on the back panel, 1 via the IEEE 1394a bracket connected to the internal IEEE 1394a header)			
Internal I/O Connectors	 1. 1 x 24-pin ATX main power connector 2. 1 x 8-pin ATX 12V power connector 3. 4 x SATA 6Gb/s connectors 4 x SATA 3Gb/s connectors 5. 1 x CPU fan header 6. 2 x system fan headers 7. 1 x power fan header 8. 1 x front panel header 9. 1 x front panel audio header 10. 1 x S/PDIF Out header 3 x USB 2.0/1.1 headers 1 x serial port header 1 x IEEE 1394a header 			

	15. 1 x Trusted Platform Module (TPM) header16. 1 x clearing CMOS jumper	
Back Panel Connectors	 1 x PS/2 keyboard/mouse port 1 x coaxial S/PDIF Out connector 1 x optical S/PDIF Out connector 7 x USB 2.0/1.1 ports 2 x USB 3.0/2.0 ports 1 x IEEE 1394 port 1 x eSATA/USB Combo connector 1 x eSATA 6Gb/s connector 1 x RJ-45 port 6 x audio jacks (Center/Subwoofer Speaker Out/Rear Speaker Out/Side Speaker Out/Line In/Line Out/Microphone) 	
I/O Controller	1. iTE IT8728 chip	
H/W Monitoring	 System voltage detection CPU/System temperature detection CPU/System/Power fan speed detection CPU overheating warning CPU/System/Power fan fail warning CPU/System fan speed control *Whether the CPU/system fan speed control function is supported will depend on the CPU/system cooler you install. 	
BIOS	 2 x 32 Mbit flash Use of licensed AWARD BIOS Support for DualBIOS™ PnP 1.0a, DMI 2.0, SM BIOS 2.4, ACPI 1.0b 	
Unique Features	 Support for @BIOS Support for Q-Flash Support for Xpress BIOS Rescue Support for Download Center Support for Xpress Install Support for Xpress Recovery2 Support for EasyTune * Available functions in EasyTune may differ by motherboard model. Support for Dynamic Energy Saver™ 2 Support for Smart 6™ Support for Auto Green Support for eXtreme Hard Drive (X.H.D) Support for ON/OFF Charge Support for Cloud OC Support for Q-Share 	
Bundle Software	Norton Internet Security (OEM version)	

Operating System	$1. \ {\sf Support for Microsoft}^{\small{\textcircled{\it R}}} \ {\sf Windows}^{\small{\textcircled{\it R}}} \ {\sf 7/Vista/XP}$	
Form Factor	1. ATX Form Factor; 30.5cm x 24.4cm	
Remark	 Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website. Most hardware/software vendors no longer offer support for Win9X/ME/2000/XP SP1/SP2. If drivers are available from the vendors, we will update them on the GIGABYTE website. 	

- * The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.
- * Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.
- * All trademarks and logos are the properties of their respective holders.
- * Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.