GA-Z77-DS3H (rev. 1.0)

Intel® Z77 Chipset

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CPU	1. Support for Intel® Core™ i7 processors/Intel® Core™ i5 processors/ Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1155 package 2. L3 cache varies with CPU (Some Intel® Core™ processors require a graphic card, please refer "CPU support List" for more information.)
Chipset	1. Intel® Z77 Express Chipset
Memory	1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory * Due to Windows 32-bit operating system limitation, when more than 4 GB of physical memory is installed, the actual memory size displayed will be less than 4 GB. 2. Dual channel memory architecture 3. Support for DDR3 1600/1333/1066 MHz memory modules 4. Support for non-ECC memory modules 5. Support for Extreme Memory Profile (XMP) memory modules (Please refer "Memory Support List" for more information.)
Onboard Graphics	Integrated Graphics Processor: 1. 1 x D-Sub port 2. 1 x DVI-D port, supporting a maximum resolution of 1920x1200 * The DVI-D port does not support D-Sub connection by adapter. 3. 1 x HDMI port, supporting a maximum resolution of 1920x1200
Audio	1. Realtek ALC887 codec 2. High Definition Audio 3. 2/4/5.1/7.1-channel * To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. 4. Support for S/PDIF Out
LAN	1. Atheros GbE LAN chip (10/100/1000 Mbit)
Expansion Slots	1. 1 x PCI Express x16 slot, running at x16 (PCIEX16) (The PCIEX16 slot conforms to PCI Express 3.0 standard.) * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. * The PCI Express x16 slot supports up to PCI Express 2.0 standard when an Intel 32nm (Sandy Bridge) CPU is installed. 2. 1 x PCI Express x16 slot, running at x4 (PCIEX4) 3. 2 x PCI Express x1 slots (The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)

	4. 2 x PCI slots
Multi-Graphics Technology	1. Support for AMD CrossFireX™ technology * The PCIEX16 slot operates at up to x4 mode when AMD CrossFireX™ is enabled.
Storage Interface	Chipset: 1. 2 x SATA 6Gb/s connectors (SATA3 0/1) supporting up to 2 SATA 6Gb/s devices 2. 3 x SATA 3Gb/s connectors (SATA2 2/3/4) supporting up to 3 SATA 3Gb/s devices 3. 1 x mSATA connector 4. Support for 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.
USB	Chipset: 1. Up to 4 USB 3.0/2.0 ports (2 ports on the back panel, 2 ports available through the internal USB header) * In Windows XP, the Intel USB 3.0 ports can support up to USB 2.0 transfer speed. 2. Up to 8 USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector 2. 1 x 4-pin ATX 12V power connector 3. 2 x SATA 6Gb/s connectors 4. 3 x SATA 3Gb/s connectors 5. 1 x mSATA connector 6. 1 x CPU fan header 7. 3 x system fan headers 8. 1 x front panel header 9. 1 x front panel audio header 10. 1 x S/PDIF Out header 11. 2 x USB 2.0/1.1 headers 12. 1 x USB 3.0/2.0 header 13. 1 x Clear CMOS jumper 14. 1 x serial port header 15. 1 x Trusted Platform Module (TPM) header
Back Panel Connectors	1. 1 x PS/2 keyboard/mouse port 2. 1 x D-Sub port 3. 1 x DVI-D port 4. 1 x HDMI port 5. 4 x USB 2.0/1.1 ports 6. 2 x USB 3.0/2.0 ports 7. 1 x RJ-45 port 8. 3 x audio jacks (Line In/Line Out/Microphone)
I/O Controller	1. iTE I/O Controller Chip
H/W Monitoring	1. System voltage detection 2. CPU/System temperature detection 3. CPU/System fan speed detection 4. CPU overheating warning 5. CPU/System fan fail warning 6. 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	1. 2 x 64 Mbit flash 2. Use of licensed AMI EFI BIOS 3. Support for DualBIOS™ 4. PnP 1.0a, DMI 2.0, SM BIOS 2.6, ACPI 2.0a
Unique Features	1. Support for @BIOS 2. Support for Q-Flash 3. Support for Xpress Install 4. Support for Xpress Recovery2 5. Support for eXtreme Hard Drive (X.H.D) 6. Support for Auto Green

	7. Support for ON/OFF Charge 8. Support for Q-Share 9. Support for LAN Optimizer (Intelligent optimization network management tool)
Bundle Software	1. Norton Internet Security (OEM version) 2. Intel® Smart Response Technology 3. Intel® Rapid Start Technology 4. Intel® Smart Connect Technology
Operating System	1. Support for Microsoft® Windows 7/XP
Form Factor	1. ATX Form Factor; 30.5cm x 21.5cm
Remark	1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website. 2. Most hardware/software vendors may no longer offer drivers to support 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.