GA-Z87X-D3H (rev. 1.0)

Intel® Z87 Chipset | Microsite

- Supports 4th Generation Intel® Core™ processors
- GIGABYTE Ultra Durable™ 5 Plus Technology
- All IR Digital Power design
- GIGABYTE UEFI DualBIOS™
- 15μ gold plated CPU socket
- Multi-GPU Support
- All solid capacitors
- GIGABYTE On/Off Charge™ 2 for USB devices
- Intel® LAN with high ESD Protection
- Supports CFOS Speed Internet Accelerator Software
- 10 USB 3.0 ports

Where to Buy

CPU	1. Support for Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1150 package 2. L3 cache varies with CPU (Please refer "CPU Support List" for more information.)
Chipset	1. Intel® Z87 Express Chipset
Memory	1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory * Due to a 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 the size of the physical memory installed. 2. Dual channel memory architecture 3. Support for DDR3 2933(O.C.)/1600/1333 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, supporting a maximum resolution of 1920x1200@60 Hz
	2. 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz
	   * The DVI-D port does not support D-Sub connection by adapter.
	3. 1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz
	   * Support for HDMI 1.4a version.
	4. Maximum shared memory of 1 GB

Audio	1. Realtek® ALC892 codec 2. High Definition Audio 3. 2/4/5.1/7.1-channel

	4. Support for S/PDIF In 5. Support for S/PDIF Out
LAN	1. Intel® GbE LAN chip (10/100/1000 Mbit)

Expansion Slots	1. 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.
	
	2. 1 x PCI Express x16 slot, running at x8 (PCIEX8)
	  (The PCIEX16 and PCIEX8 slots conform to PCI Express 3.0 standard.)
	  * 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.
	
	3. 1 x PCI Express x16 slot, running at x4 (PCIEX4)
	  * The PCIEX4 slot shares bandwidth with all PCI Express x1 slots. All PCI Express x1 slots will become unavailable when a PCIe x4 expansion card is installed.
	  * When installing a x8 or above card in the PCIEX4 slot, make sure to set PCIE Slot Configuration in BIOS Setup to x4.
	
	4. 3 x PCI Express x1 slots
	  (The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)
	
	5. 1 x PCI slot

Multi-Graphics Technology	1. Support for 2-Way AMD CrossFire™/NVIDIA® SLI™ technology (PCIEX16 and PCIEX8)
Storage Interface	Chipset: 1. 6 x SATA 6Gb/s connectors (SATA3 0~SATA3 5) supporting up to 6 SATA 6Gb/s devices 2. Support for RAID 0, RAID 1, RAID 5, and RAID 10
USB	Chipset: 1. Up to 2 USB 3.0/2.0 ports (available through the internal USB headers) 2. Up to 6 USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers) Chipset + 2 Renesas® uPD720210 USB 3.0 Hubs: 1. Up to 8 USB 3.0/2.0 ports (6 ports on the back panel, 2 ports available through the internal USB headers)
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector 2. 1 x 8-pin ATX 12V power connector 3. 6 x SATA 6Gb/s connectors 4. 1 x CPU fan header 5. 3 x system fan headers 6. 1 x water cooling fan header (CPU_OPT) 7. 1 x front panel header 8. 1 x front panel audio header 9. 1 x S/PDIF Out header 10. 1 x S/PDIF In header 11. 2 x USB 3.0/2.0 headers 12. 2 x USB 2.0/1.1 headers 13. 1 x serial port header 14. 1 x Clear CMOS jumper

	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. 6 x USB 3.0/2.0 ports 6. 2 x USB 2.0/1.1 ports 7. 1 x RJ-45 port 8. 1 x optical S/PDIF Out connector 9. 5 x audio jacks (Center/Subwoofer Speaker Out, Rear Speaker Out, Side Speaker Out, 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/CPU OPT/System fan speed detection 4. CPU/System overheating warning 5. CPU/CPU OPT/System fan fail warning 6. CPU/CPU OPT/System fan speed control * Whether the fan speed control function is supported will depend on the 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 Q-Flash
	2. Support for Xpress Install
	3. Support for APP Center
	   * Available applications in APP Center may differ by motherboard model. Supported functions of each application may also differ depending on motherboard specifications.
	   @BIOS
	   EasyTune
	   EZ Setup
	   ON/OFF Charge2
	   USB Blocker

Bundle Software	1. Norton Internet Security (OEM version) 2. Intel® Rapid Start Technology 3. Intel® Smart Connect Technology 4. Intel® Smart Response Technology 5. cFosSpeed
Operating System	1. Support for Windows 8/7
Form Factor	1. ATX Form Factor; 30.5cm x 24.4cm
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.