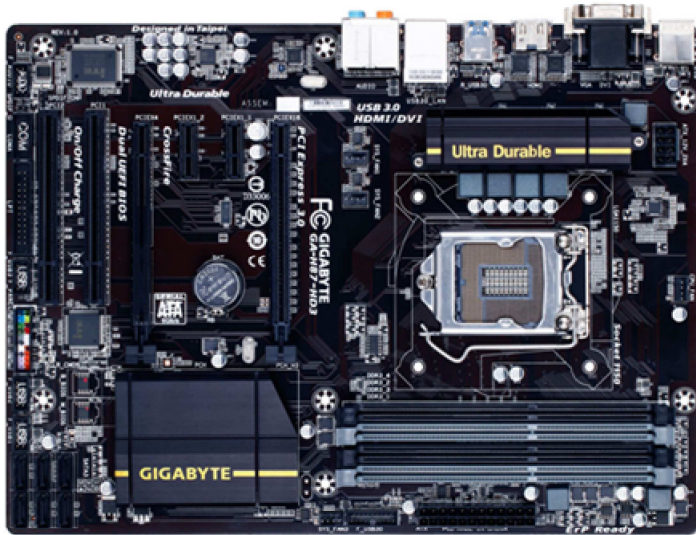


GA-H87-HD3 (rev. 1.0)

Intel® H87 Chipset

| [Microsite](#)



- Supports 4th Generation Intel® Core™ processors
- GIGABYTE Ultra Durable™ 4 Plus Technology
- GIGABYTE Hybrid Digital Power Engine
- GIGABYTE UEFI DualBIOS™
- Gold Plated CPU Socket
- Multi-GPU Support
- GIGABYTE 333™ Onboard Acceleration (USB 3.0, SATA 3.0 & 3x USB Power)
- GIGABYTE On/Off Charge™ for USB devices
- HDMI, DVI, D-SUB
- Intel® Small Business Advantage

Where to Buy



CPU	<ol style="list-style-type: none">1. Support for Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1150 package2. L3 cache varies with CPU <p>(Please refer "CPU Support List" for more information.)</p>
Chipset	<ol style="list-style-type: none">1. Intel® H87 Express Chipset
Memory	<ol style="list-style-type: none">1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory<ul style="list-style-type: none">* 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 architecture3. Support for DDR3 1600/1333 MHz memory modules4. Support for non-ECC memory modules5. Support for Extreme Memory Profile (XMP) memory modules <p>(Please refer "Memory Support List" for more information.)</p>
Onboard Graphics	<p>Integrated Graphics Processor:</p> <ol style="list-style-type: none">1. 1 x D-Sub port2. 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz<ul style="list-style-type: none">* The DVI-D port does not support D-Sub connection by adapter.3. 1 x HDMI ports, supporting a maximum resolution of 4096x2160@24 Hz<ul style="list-style-type: none">* Support for HDMI 1.4a version.4. Maximum shared memory of 1 GB
Audio	<ol style="list-style-type: none">1. Realtek® ALC892 codec2. High Definition Audio3. 2/4/5.1/7.1-channel

	4. Support for S/PDIF In 5. Support for S/PDIF Out
LAN	1. Realtek® 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. 2. 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. 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 CrossFire™ technology * The PCIEX16 slot operates at up to x4 mode when AMD CrossFire™ is enabled.
Storage Interface	Chipset: 1. 6 x SATA 6Gb/s connectors 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 6 USB 3.0/2.0 ports (4 ports on the back panel, 2 ports available through the internal USB header) 2. Up to 8 USB 2.0/1.1 ports (2 ports on the back panel, 6 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 front panel header 7. 1 x front panel audio header 8. 1 x S/PDIF Out header 9. 1 x S/PDIF In header 10. 1 x USB 3.0/2.0 header 11. 3 x USB 2.0/1.1 headers 12. 1 x serial port header 13. 1 x parallel port header 14. 1 x Clear CMOS jumper
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 3.0/2.0 ports

	6. 2 x USB 2.0/1.1 ports 7. 1 x RJ-45 port 8. 6 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/System fan speed detection 4. CPU overheating warning 5. CPU/System fan fail warning 6. CPU/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 USB Blocker 4. Support for ON/OFF Charge
Bundle Software	1. Norton Internet Security (OEM version) 2. Intel® Rapid Start Technology 3. Intel® Smart Connect Technology 4. Intel® Smart Response Technology 5. Intel® Small Business Advantage
Operating System	1. Support for Windows 8/7
Form Factor	1. ATX Form Factor; 30.5cm x 22.5cm
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.