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## GA-H87M-HD3 (rev. 1.0)

Intel® H87 Chipset [f](#) [t](#) [Print](#) | [Microsite](#)



- Supports 4<sup>th</sup> Generation Intel® Core™ processors
- GIGABYTE Hybrid Digital Power Engine
- GIGABYTE UEFI DualBIOS™
- Gold plated CPU Sockets
- GIGABYTE On/Off Charge™ for USB devices
- LAN with high ESD Protection
- HDMI, DVI, D-SUB

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<p><b>CPU</b></p>	<ol style="list-style-type: none"> <li>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</li> <li>2. L3 cache varies with CPU</li> </ol> <p>(Please refer "CPU Support List" for more information.)</p>
<p><b>Chipset</b></p>	<ol style="list-style-type: none"> <li>1. Intel® H87 Express Chipset</li> </ol>
<p><b>Memory</b></p>	<ol style="list-style-type: none"> <li>1. 2 x 1.5V DDR3 DIMM sockets supporting up to 16 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.</li> <li>2. Dual channel memory architecture</li> <li>3. Support for DDR3 1600/1333 MHz memory modules</li> <li>4. Support for non-ECC memory modules</li> <li>5. Support for Extreme Memory Profile (XMP) memory modules</li> </ol> <p>(Please refer "Memory Support List" for more information.)</p>
	<p>Integrated Graphics Processor:</p> <ol style="list-style-type: none"> <li>1. 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz</li> </ol>

<b>Onboard Graphics</b>	<ol style="list-style-type: none"> <li>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.</li> <li>1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz * Support for HDMI 1.4a version.</li> <li>Maximum shared memory of 1 GB</li> </ol>
<b>Audio</b>	<ol style="list-style-type: none"> <li>1. Realtek® ALC887 codec</li> <li>High Definition Audio</li> <li>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.</li> </ol>
<b>LAN</b>	<ol style="list-style-type: none"> <li>1. Realtek® GbE LAN chip (10/100/1000 Mbit)</li> </ol>
<b>Expansion Slots</b>	<ol style="list-style-type: none"> <li>1 x PCI Express x16 slot, running at x16 (The PCI Express x16 slot conforms to PCI Express 3.0 standard.)</li> <li>2 x PCI Express x1 slots (The PCI Express x1 slot conforms to PCI Express 2.0 standard.)</li> <li>1 x PCI slot</li> </ol>
<b>Storage Interface</b>	<p>Chipset:</p> <ol style="list-style-type: none"> <li>6 x SATA 6Gb/s connectors supporting up to 6 SATA 6Gb/s devices</li> <li>Support for RAID 0, RAID 1, RAID 5, and RAID 10</li> </ol>
<b>USB</b>	<p>Chipset:</p> <ol style="list-style-type: none"> <li>Up to 6 USB 3.0/2.0 ports (4 ports on the back panels, 2 ports available through the internal USB header)</li> <li>Up to 6 USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)</li> </ol>
<b>Internal I/O Connectors</b>	<ol style="list-style-type: none"> <li>1 x 24-pin ATX main power connector</li> <li>1 x 8-pin ATX 12V power connector</li> <li>6 x SATA 6Gb/s connectors</li> <li>1 x CPU fan header</li> <li>1 x system fan header</li> <li>1 x front panel header</li> <li>1 x front panel audio header</li> <li>1 x USB 3.0/2.0 header</li> <li>2 x USB 2.0/1.1 headers</li> <li>1 x serial port header</li> <li>1 x parallel port header</li> <li>1 x Clear CMOS jumper</li> </ol>
<b>Back Panel Connectors</b>	<ol style="list-style-type: none"> <li>1 x PS/2 keyboard/mouse port</li> <li>1 x D-Sub port</li> <li>1 x DVI-D port</li> <li>1 x HDMI port</li> <li>4 x USB 3.0/2.0 ports</li> <li>2 x USB 2.0/1.1 ports</li> <li>1 x RJ-45 port</li> </ol>

	8. 3 x audio jacks (Line In/Line Out/Microphone)
<b>I/O Controller</b>	1. iTE <sup>®</sup> I/O Controller Chip
<b>H/W Monitoring</b>	<ol style="list-style-type: none"> <li>1. System voltage detection</li> <li>2. CPU/System temperature detection</li> <li>3. CPU/System fan speed detection</li> <li>4. CPU/System overheating warning</li> <li>5. CPU/System fan fail warning</li> <li>6. CPU/System fan speed control</li> </ol> <p>* Whether the fan speed control function is supported will depend on the cooler you install.</p>
<b>BIOS</b>	<ol style="list-style-type: none"> <li>1. 2 x 64 Mbit flash</li> <li>2. Use of licensed AMI EFI BIOS</li> <li>3. Support for DualBIOS™</li> <li>4. PnP 1.0a, DMI 2.0, SM BIOS 2.6, ACPI 2.0a</li> </ol>
<b>Unique Features</b>	<ol style="list-style-type: none"> <li>1. Support for Q-Flash</li> <li>2. Support for Xpress Install</li> <li>3. Support for APP Center</li> </ol> <p>* Available applications in APP Center may differ by motherboard model. Supported functions of each application may also differ depending on motherboard specifications.</p> <p>@BIOS EasyTune EZ Setup USB Blocker</p> <ol style="list-style-type: none"> <li>4. Support for ON/OFF Charge</li> </ol>
<b>Bundle Software</b>	<ol style="list-style-type: none"> <li>1. Norton Internet Security (OEM version)</li> <li>2. Intel<sup>®</sup> Rapid Start Technology</li> <li>3. Intel<sup>®</sup> Smart Connect Technology</li> <li>4. Intel<sup>®</sup> Smart Response Technology</li> <li>5. Intel<sup>®</sup> Small Business Advantage</li> </ol>
<b>Operating System</b>	1. Support for Windows 8/7
<b>Form Factor</b>	1. Micro ATX Form Factor; 24.4cm x 17.4cm
<b>Remark</b>	<ol style="list-style-type: none"> <li>1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.</li> <li>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.</li> </ol>

\* 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.

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\* 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.

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