

Home > Products > Motherboard > Socket 1150 > [GA-B85M-D3H \(rev. 1.0\)](#)

## GA-B85M-D3H (rev. 1.0)

Intel® B85 Chipset [f](#) [t](#) [Print](#) | [Microsite](#)



- Supports 4<sup>th</sup> Generation Intel® Core™ processors
- GIGABYTE Ultra Durable™ 4 Plus Technology
- GIGABYTE Hybrid digital power engine
- GIGABYTE UEFI DualBIOS™
- Multi-GPU Support
- GIGABYTE 333™ Onboard Acceleration (USB 3.0, SATA 3.0 & 3x USB Power)
- GIGABYTE On/Off Charge™ for USB devices
- LAN with high ESD Protection
- HDMI 1.4, DVI, D-SUB
- Intel® Small Business Advantage

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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® B85 Express Chipset</li> </ol>
<p><b>Memory</b></p>	<ol style="list-style-type: none"> <li>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.</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>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.</li> <li>3. 1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz * Support for HDMI 1.4a version.</li> <li>4. Maximum shared memory of 1 GB</li> </ol>
<b>Audio</b>	<ol style="list-style-type: none"> <li>1. Realtek® ALC892 codec</li> <li>2. High Definition Audio</li> <li>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.</li> <li>4. Support for S/PDIF Out</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. 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. (The PCIEX16 slot conforms to PCI Express 3.0 standard.)</li> <li>2. 1 x PCI Express x16 slot, running at x4 (PCIEX4)</li> <li>3. 2 x PCI slots</li> </ol>
<b>Multi-Graphics Technology</b>	<ol style="list-style-type: none"> <li>1. Support for AMD CrossFire™ technology</li> </ol>
<b>Storage Interface</b>	<p>Chipset:</p> <ol style="list-style-type: none"> <li>1. 4 x SATA 6Gb/s connectors (SATA3 0/1/2/3) supporting up to 4 SATA 6Gb/s devices</li> <li>2. 2 x SATA 3Gb/s connectors (SATA2 0/1) supporting up to 2 SATA 3Gb/s devices</li> </ol>
<b>USB</b>	<p>Chipset:</p> <ol style="list-style-type: none"> <li>1. Up to 4 USB 3.0/2.0 ports (2 ports on the back panel, 2 ports available through the internal USB headers)</li> <li>2. Up to 8 USB 2.0/1.1 ports (4 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. 1 x 24-pin ATX main power connector</li> <li>2. 1 x 8-pin ATX 12V power connector</li> <li>3. 4 x SATA 6Gb/s connectors</li> <li>4. 2 x SATA 3Gb/s connectors</li> <li>5. 1 x CPU fan header</li> <li>6. 3 x system fan headers</li> <li>7. 1 x front panel header</li> <li>8. 1 x front panel audio header</li> <li>9. 1 x S/PDIF Out header</li> <li>10. 1 x USB 3.0/2.0 header</li> <li>11. 2 x USB 2.0/1.1 headers</li> <li>12. 1 x serial port header</li> <li>13. 1 x parallel port header</li> <li>14. 1 x Trusted Platform Module (TPM) header</li> <li>15. 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>2 x USB 3.0/2.0 ports</li> <li>4 x USB 2.0/1.1 ports</li> <li>1 x RJ-45 port</li> <li>6 x audio jacks (Center/Subwoofer Speaker Out/Rear Speaker Out/Side Speaker Out/Line In/Line Out/Microphone)</li> </ol>
<b>I/O Controller</b>	<ol style="list-style-type: none"> <li>1. iTE® I/O Controller Chip</li> </ol>
<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 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® Rapid Start Technology</li> <li>3. Intel® Smart Connect Technology</li> <li>4. Intel® Small Business Advantage</li> </ol>
<b>Operating System</b>	<ol style="list-style-type: none"> <li>1. Support for Windows 8/7</li> </ol>
<b>Form Factor</b>	<ol style="list-style-type: none"> <li>1. Micro ATX Form Factor; 24.4cm x 22.5cm</li> </ol>
<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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