

## GA-J1900N-D3V SPECIFICATION

<b>CPU</b>	<ol style="list-style-type: none"><li>1. Built in with an Intel<sup>®</sup> Celeron<sup>®</sup> Quad-Core J1900 SoC (2.0 GHz) * Do not disassemble the onboard SoC and the heatsink by yourself to avoid damage to these components.</li><li>2. 2 MB Cache</li></ol>
<b>Memory</b>	<ol style="list-style-type: none"><li>1. 2 x DDR3/-L SO-DIMM sockets supporting up to 8 GB of system memory * If only one DDR3/-L memory module is to be installed, be sure to install it in the SODIMM_1 socket.</li><li>2. Dual channel memory architecture</li><li>3. Support for DDR3/-L 1333 MHz memory modules</li><li>4. Support for non-ECC memory modules</li></ol>
	<p>Integrated in the SoC:</p>
<b>Onboard Graphics</b>	<ol style="list-style-type: none"><li>1. 1 x D-Sub port, supporting a maximum resolution of 2560x1600</li><li>2. 1 x DVI-D port, supporting a maximum resolution of 1920x1080 * The DVI-D port does not support D-Sub connection by adapter.</li></ol>
<b>Audio</b>	<ol style="list-style-type: none"><li>1. Realtek<sup>®</sup> ALC887 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. 2 x Realtek<sup>®</sup> GbE LAN chips (10/100/1000 Mbit)</li></ol>

<b>Expansion Slots</b>	<ol style="list-style-type: none"> <li>1. 1 x PCI slot</li> <li>2. 1 x Mini PCI Express x1 slot</li> </ol> <p>(The Mini PCI Express slot conforms to PCI Express 2.0 standard.)</p> <p>(For Mini-PCIE card/no mSATA card)</p>
<b>Storage Interface</b>	<p>Integrated in the SoC:</p> <ol style="list-style-type: none"> <li>1. 2 x SATA 3Gb/s connectors</li> </ol>
<b>USB</b>	<p>Integrated in the SoC:</p> <ol style="list-style-type: none"> <li>1. 2 x USB 2.0/1.1 ports (available through the internal USB header)</li> </ol>
<b>USB</b>	<p>SoC + Renesas<sup>®</sup> uPD720210 USB 3.0 Hub:</p>
	<ol style="list-style-type: none"> <li>1. 4 x USB 3.0/2.0 ports on the back panel</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 4-pin ATX 12V power connector</li> <li>3. 2 x SATA 3Gb/s connectors</li> <li>4. 1 x CPU fan header</li> <li>5. 1 x system fan header</li> <li>6. 1 x front panel header</li> <li>7. 1 x front panel audio header</li> <li>8. 1 x S/PDIF Out header</li> <li>9. 1 x USB 2.0/1.1 header</li> <li>10. 1 x parallel port header</li> <li>11. 1 x Clear CMOS jumper</li> </ol>

	<p>12.1 x chassis intrusion header</p> <p>13.1 x debug card header</p>
<p><b>Back Panel Connectors</b></p>	<ol style="list-style-type: none"> <li>1. 1 x PS/2 keyboard port</li> <li>2. 1 x PS/2 mouse port</li> <li>3. 1 x D-Sub port</li> <li>4. 1 x DVI-D port</li> <li>5. 2 x serial ports</li> <li>6. 4 x USB 3.0/2.0 ports</li> <li>7. 2 x RJ-45 ports</li> <li>8. 3 x audio jacks (Line In, Line Out, Mic In)</li> </ol>
<p><b>I/O Controller</b></p>	<ol style="list-style-type: none"> <li>1. ITE® I/O Controller Chip</li> </ol>
	<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 fan speed control</li> </ol> <p>* Whether the fan speed control function is supported will depend on the cooler you install.</p>
<p><b>H/W Monitoring</b></p>	<ol style="list-style-type: none"> <li>1. 2 x 64 Mbit flash</li> <li>2. Use of licensed AMI UEFI BIOS</li> <li>3. Support for DualBIOS™</li> <li>4. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0</li> </ol>
<p><b>BIOS</b></p>	<ol style="list-style-type: none"> <li>1. Support for @BIOS</li> <li>2. Support for Xpress Install</li> </ol>
<p><b>Unique Features</b></p>	

	<p>3. Support for APP Center</p> <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>4. Support for ON/OFF Charge</p>
<b>Bundle Software</b>	<p>1. Norton<sup>®</sup> Internet Security (OEM version)</p> <p>2. Intel<sup>®</sup> Smart Connect Technology</p>
<b>Operating System</b>	<p>1. Support for Windows 8.1/8 32-bit/64-bit</p> <p>2. Support for Windows 7 64-bit</p> <p>* To support Windows 7 64-bit, please update the latest BIOS and drivers.</p>
<b>Form Factor</b>	<p>1. Mini-ITX Form Factor; 17.0cm x 17.0cm</p>
<b>Remark</b>	<p>1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.</p> <p>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.</p>

\* 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.