| **CPU** | 1. Support for 7th and 6th generation Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1151 package  
2. L3 cache varies with CPU  
(Please refer "CPU Support List" for more information.) |
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<tr>
<td><strong>Chipset</strong></td>
<td>1. Intel® H270 Express Chipset</td>
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</table>
| **Memory** | 1. 2 x DDR4 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 DDR4 2400(O.C.)* / 2133 MHz memory modules  
4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)  
5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules  
6. Support for Extreme Memory Profile (XMP) memory modules  
   * To support 2400 MHz or XMP memory, you must install a 7th generation processor.  
(Please refer "Memory Support List" for more information.) |
1. 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.  
2. 2 x HDMI ports, supporting a maximum resolution of 4096x2160@24 Hz  
   * Support for HDMI 1.4 version.  
3. Support for up to 3 displays at the same time  
4. Maximum shared memory of 1 GB |
| **Audio** | 1. Realtek® ALC1220 codec  
2. High Definition Audio  
3. 2/4/5.1/7.1-channel  
4. Support for S/PDIF Out |
| **LAN** | 1. 2 x Intel® GbE LAN chips (10/100/1000 Mbit) |
### Wireless Communication module

1. Wi-Fi 802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band
2. BLUETOOTH 4.2, 4.1, BLE, 4.0, 3.0, 2.1+EDR
3. Support for 11ac wireless standard and up to 867 Mbps data rate
   * Actual data rate may vary depending on environment and equipment.

### Expansion Slots

1. 1 x PCI Express x16 slot, running at x16
   *(The PCIEX16 slot conforms to PCI Express 3.0 standard.)*
2. 1 x M.2 Socket 1 connector for the wireless communication module
   *(M2_WIFI)*

### Storage Interface

- **Chipset:**
  1. 1 x M.2 connector on the back of the motherboard *(Socket 3, M key, type 2260/2280 SATA and PCIe x4/x2 SSD support)*
  2. 6 x SATA 6Gb/s connectors
  3. Support for RAID 0, RAID 1, RAID 5, and RAID 10
     * Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.

### USB

- **Chipset:**
  1. 2 x USB 2.0/1.1 ports available through the internal USB header
  2. 6 x USB 3.1 Gen 1 ports *(4 ports on the back panel, 2 ports available through the internal USB header)*
  3. 1 x USB Type-C™ port on the back panel, with USB 3.1 Gen 1 support

### Internal I/O Connectors

1. 1 x 24-pin ATX main power connector
2. 1 x 4-pin ATX 12V power connector
3. 6 x SATA 6Gb/s connectors
4. 1 x M.2 Socket 3 connector on the back of the motherboard
5. 1 x CPU fan header
6. 1 x system fan header
7. 1 x front panel header
8. 1 x front panel audio header
9. 1 x USB 3.1 Gen 1 header
10. 1 x USB 2.0/1.1 header
11. 1 x S/PDIF Out header
12. 1 x speaker header
13. 1 x Clear CMOS jumper
14. 1 x chassis intrusion header

### Internal I/O Connectors

1. 1 x PS/2 keyboard/mouse port
2. 2 x HDMI ports
### Back Panel Connectors

3. 2 x SMA antenna connectors (2T2R)  
5. 4 x USB 3.1 Gen 1 ports  
6. 1 x USB Type-C™ port, with USB 3.1 Gen 1 support  
7. 2 x RJ-45 ports  
8. 1 x optical S/PDIF Out connector  
9. 5 x audio jacks (Center/Subwoofer Speaker Out, Rear Speaker Out, Line In, Line Out, Mic In)

### I/O Controller

1. iTE® I/O Controller Chip

### H/W Monitoring

1. Voltage detection  
2. Temperature detection  
3. Fan speed detection  
4. Overheating warning  
5. Fan fail warning  
6. Fan speed control  
   * Whether the fan speed control function is supported will depend on the cooler you install.

### BIOS

1. 2 x 128 Mbit flash  
2. Use of licensed AMI UEFI BIOS  
3. Support for DualBIOS™  
4. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

### Unique Features

1. Support for APP Center  
   * Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.

   - 3D OSD
   - @BIOS
   - Ambient LED
   - AutoGreen
   - BIOS Setup
   - Color Temperature
   - Cloud Station
   - EasyTune
   - Easy RAID
   - Fast Boot
   - Game Boost
   - ON/OFF Charge
   - Platform Power Management
# GIGABYTE - Motherboard - Socket 1151 - GA-H270N-WIFI (rev. 1.0)

## Bundle Software
1. Norton® Internet Security (OEM version)
2. Intel® Wireless Display
3. Intel® Optane™ Memory Ready
4. cFosSpeed

## Operating System
1. Windows® 10 64-bit (for 7th Generation Intel® Processors)
2. Windows® 10 64-bit / Windows® 8.1 64-bit / Windows® 7 32-bit / 64-bits (for 6th Generation Intel® Processors)
   * Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.

## Form Factor
1. Mini-ITX Form Factor; 17.0cm x 17.0cm

## 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. 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.