

# HB651I215 Series

Intel® Q670E Chipset support LGA 1700 socket for the 12th/13th Gen i9/i7/i5/i3 processor, support DDR5 up to 64GB

## Features

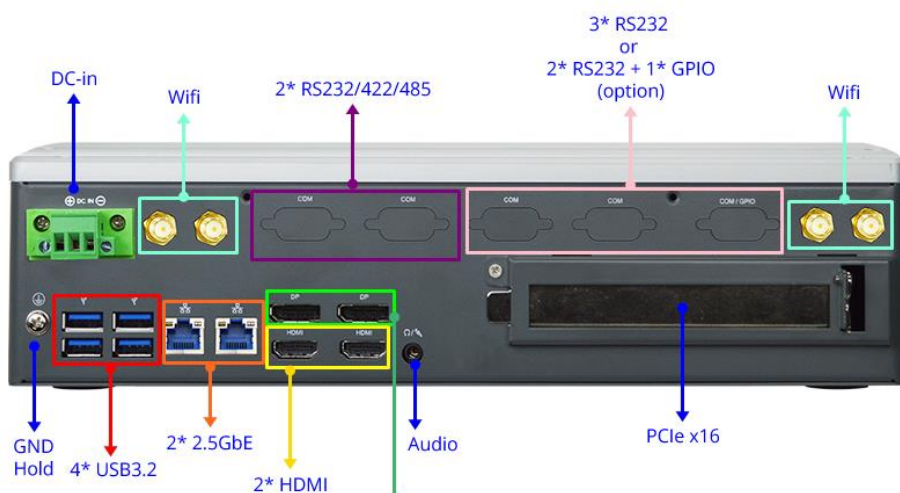
1. Intel® 12/13<sup>th</sup> (Alder Lake-S/Raptor Lake-S) LGA1700 Socket Processor
2. Intel® Q670E chipset
3. 2\* DDR5 4800MHz/5600MHz SO-DIMM up to 64GB
4. 2\* 2.5GbE Ethernet Ports
5. 2\* M.2 M-key, 1\* M.2 E-key, 1\* M.2 B-key
6. Single PCI Express x16(Gen.4)
7. 2\* HDMI and 2\* DP support Quad displays
8. 2\* RS232/422/485, 4\* RS232, 4\* USB3.2(Gen.2), 4\* USB2.0
9. Dimensions: 306 \* 199 \* 79 mm
10. Adapter DC19V/120W



## Front I/O



## Rear I/O

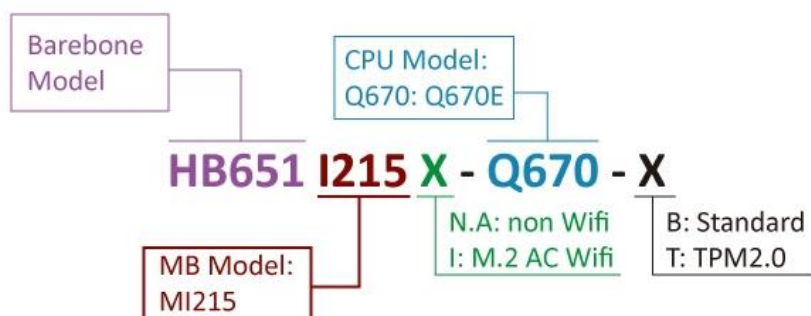


## Specifications

<b>Model</b>	<ul style="list-style-type: none"> <li>• HB651I215-Q670-B (non-WiFi) &amp; HB651I215I-Q670-B (WiFi)</li> <li>• HB651I215-Q670-T (non-WiFi) &amp; HB651I215I-Q670-T (WiFi)</li> </ul>
<b>CPU / Chipset</b>	<ul style="list-style-type: none"> <li>• Intel® 12th /13th (Alder Lake-S/Raptor Lake-S) LGA1700 Socket Core i9/i7/i5/i3/Pentium/Celeron Processor</li> <li>• BIOS: 35W TDP &amp; Turbo Disabled</li> <li>• CPU: support 35W &amp; 65W</li> <li>• Intel® Q670E chipset</li> </ul>
<b>MB model</b>	<ul style="list-style-type: none"> <li>• MI215Q6700</li> <li>• MI215Q6702 (TPM2.0)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>• AMI Flash ROM BIOS</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Intel® 12th CPU support 2* DDR5 4800MHz Dual Channel SO-DIMM up to 64GB</li> <li>• Intel® 13th CPU support 2* DDR5 5600MHz Dual Channel SO-DIMM up to 64GB</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>• 1* Intel i225-V 2.5GbE</li> <li>• 1* Intel i225-LM 2.5GbE</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>• Intel® HD Graphics, shared memory</li> <li>• 2* DP1.4a (Max Resolution: 4096x2304@60Hz)</li> <li>• 2* HDMI 2.0b (Max Resolution: 4096x2160@60Hz)</li> <li>• Support Quad Displays</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• HD audio: Realtek ALC888S (with 3W Amp.)</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 1* M.2 M-key (2242, SATA/PCIe Gen.4 x4 interface) support NVMe</li> <li>• 1* M.2 M-key (2280, SATA/PCIe Gen.3 x4 interface) support NVMe</li> <li>• 1* 2.5" SATA Device</li> </ul>
<b>Expansion</b>	<ul style="list-style-type: none"> <li>• 1* M.2 E-key (2230, PCIe x1/USB2.0 interface) support CNVio</li> <li>• 1* M.2 B-key (3042/3052, USB3.1/USB2.0/PCIe x1 interface)</li> <li>• 1* PCI Express x16 (Gen.4)</li> </ul> <p>PCI Express x16 (Gen.4) is recommended to expand the IO control card; although standard VGA cards can also be installed, due to the high power consumption of VGA graphics cards, the heat cannot be effectively dissipated in the FANLESS case, which will System performance is affected, so its use is not recommended.</p>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>• 4* USB3.2 (Gen.2)</li> <li>• 2* LAN</li> <li>• 2* HDMI</li> <li>• 2* DP</li> <li>• 1* Audio jack (Line-out/MIC combo)</li> <li>• 1* DC-in (3 PIN Industrial Connector)</li> <li>• 5* COM (2*RS232/422/485, 3*RS232)</li> </ul>
<b>Front Panel I/O</b>	<ul style="list-style-type: none"> <li>• 1* Power button , 1* Reset</li> <li>• 1* Power LED, 1*HDD LED</li> <li>• 4* USB2.0</li> <li>• 1* FAN link con</li> </ul>
<b>Internal Connector</b>	<ul style="list-style-type: none"> <li>• SIM Card Holder</li> <li>• 1*GPIO</li> </ul>
<b>Power Source</b>	<ul style="list-style-type: none"> <li>• Adapter : AC 90~240V input / DC19V_120W output</li> <li>• MB : DC12~36V input</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>• CE, FCC, LVD, RoHS, ErP Ready</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• System : 306 (W) * 199 (D) *79 (H) mm</li> <li>• Net Weight: 5.5 KG: Gross Weight: 6.5 KG</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: -20 ~ 60° C (35W CPU)</li> <li>• Operating Temperature: -20 ~ 50° C (65W CPU)</li> <li>• (Under the condition of using M.2 interface SSD)</li> <li>• Storage Temperature: -40 ~ 85° C</li> <li>• Humidity: 10% ~ 95% RH @40°C (non-condensing)</li> </ul>
<b>OS Support</b>	<ul style="list-style-type: none"> <li>• Windows 11, Linux</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>• 2 Years limited warranty</li> </ul>

\* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

## Part Number Rules



## Standard Accessories

Part Number	Description
-----	HB651I215 series
HCS650MWM01B-F	WALL MOUNT KITS
-----	Adapter DC19V/120W
Change according to shipping area	Power cord (Change according to shipping area)
LCSCHBFDXXX-F LCSCHBJC3XX-F	1*Screw Pack
J2PCIE16RISER1AR10	1*PCI-E X16 RISER CARD
J05-ANT-GX57245-F	2*Antenna 2G4/5G 2.8dBi (WiFi only)
G01-SA715S7P422F	1*SATA 22P Cable
HCFAN65X-DC1225	1*DC1225 FAN Expansion module (option)

## Mechanical Drawings (Unit=mm)

