

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



## Features

- Intel® 12th/13th (Alder Lake-S/Raptor Lake-S) LGA1700 Socket Processor (Max. 65W TDP)
- Intel® Q670E chipset
- 2 x DDR5 4800MHz/5600MHz SO-DIMM up to 64GB
- 2 x 2.5GbE Ethernet Ports
- 2 x M.2 M-key, 1 x M.2 E-key, 1 x M.2 B-key
- Single PCI Express x16(Gen.4)
- 2 x HDMI and 2 x DP support Quad displays
- 2 x RS232/422/485, 4 x RS232, 4 x USB3.2(Gen.2), 4 x USB2.0
- Dimensions: 306 x 199 x 79 mm

## Specifications

### Display

<b>Graphics</b>	Intel® HD Graphics, shared memory 2 x DP1.4a (Max Resolution: 4096x2304@60Hz) 2 x HDMI 2.0b (Max Resolution: 4096x2160@60Hz) Support Quad Displays
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### I/O Connector

<b>Audio</b>	HD audio: Realtek ALC888S (with 3W Amp.)
<b>Rear Panel I/O</b>	4 x USB3.2 (Gen.2) 2 x LAN 2 x HDMI 2 x DP 1 x Audio jack (Line-out/MIC combo) 1 x DC-in (3 PIN Industrial Connector)
<b>Front Panel I/O</b>	5 x COM (2 x RS232/422/485, 3 x RS232) 1 x Power button , 1 x Reset 1 x Power LED, 1 x HDD LED 4 x USB2.0 1 x FAN link con
<b>Internal Connector</b>	SIM Card Holder 1 x GPIO
<b>Network</b>	1 x Intel i225-V 2.5GbE 1 x Intel i225-LM 2.5GbE

### Power

<b>Power Input</b>	MB : DC12~36V input
<b>Power Adapter</b>	AC 90~240V input / DC19V_120W output

### Expansion

<b>Expansion</b>	1 x M.2 E-key (2230, PCIe x1/USB2.0 interface) support CNVio 1 x M.2 B-key (3042/3052, USB3.1/USB2.0/PCIe x1 interface)
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### System

<b>CPU / Chipset</b>	Intel® 12th/13th (Alder Lake-S/Raptor Lake-S) LGA1700 Socket Core i7/i5/i3 Processor Max. 65W TDP Intel® Q670E chipset
<b>BIOS</b>	AMI Flash ROM BIOS
<b>Memory</b>	Intel® 12th CPU support 2 x DDR5 4800MHz Dual Channel SO-DIMM up to 64GB Intel® 13th CPU support 2 x DDR5 5600MHz Dual Channel SO-DIMM up to 64GB
<b>Storage</b>	1 x M.2 M-key (2242, SATA/PCIe Gen.4 x4 interface) support NVMe 1 x M.2 M-key (2280, SATA/PCIe Gen.3 x4 interface) support NVMe 1 x 2.5" SATA Device
<b>OS Support</b>	Windows 11, Linux

### Environment

<b>Operating Temperature</b>	-20°C ~ 60°C (Under the condition of using M.2 interface SSD)
<b>Storage Temperature</b>	-40°C ~ 85°C
<b>Humidity</b>	10% ~ 95% RH @40°C (non-condensing)

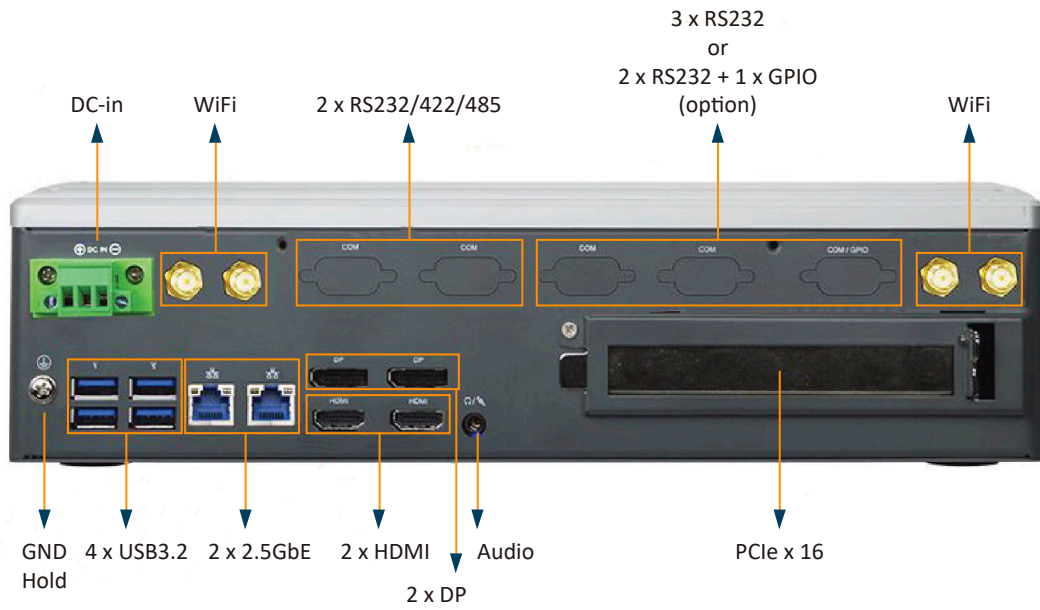
### Certification Information (in Process)

<b>Certification</b>	CE, FCC, LVD, RoHS, ErP
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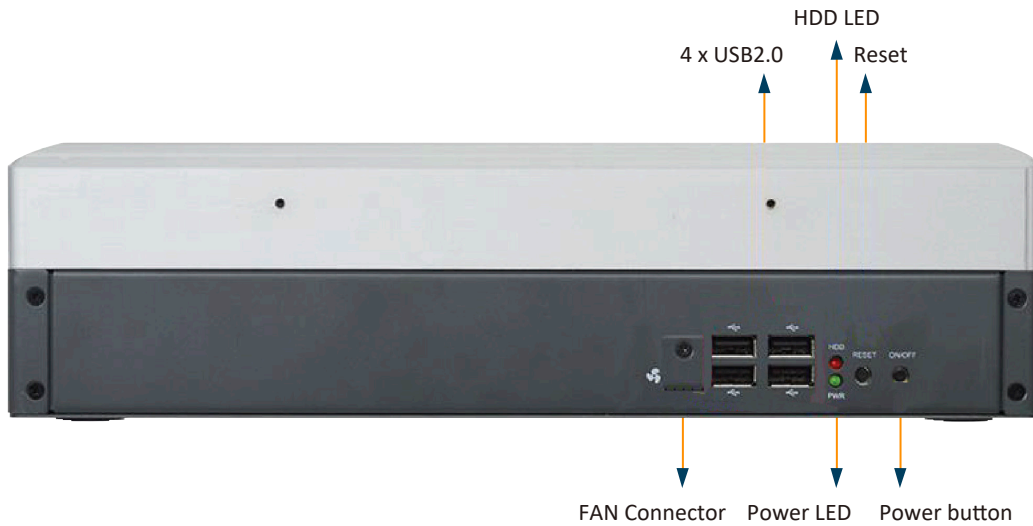
### Physical

<b>Mounting</b>	Wall
<b>Dimensions(W x H x D) (mm)</b>	306 x 79 x 199
<b>Net Weight</b>	5.5 KG
<b>Gross Weight</b>	6.5 KG

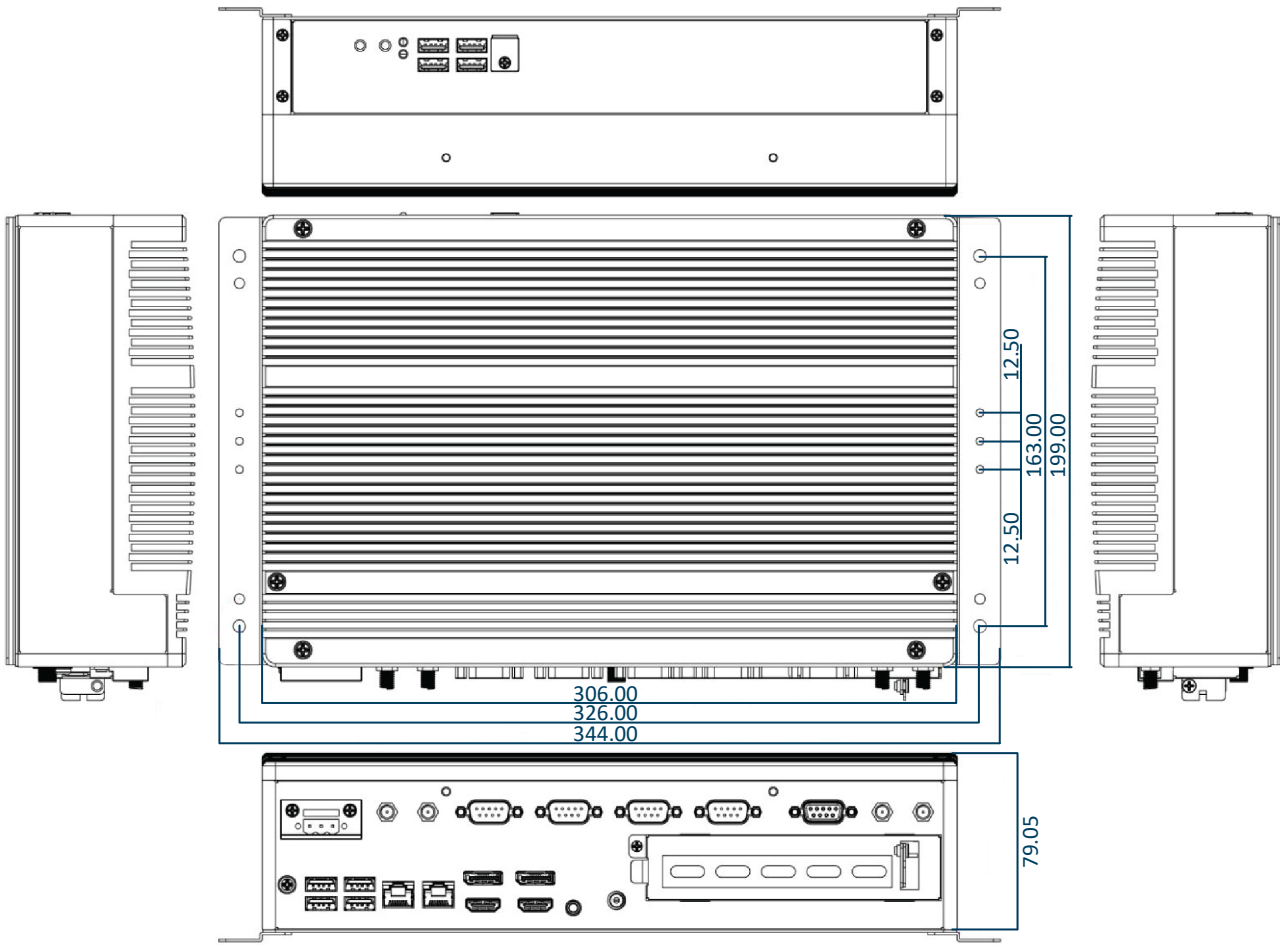
## Product Front I/O View



## Product Rear I/O View



## Mechanical Drawings (Unit = mm)



## Ordering Codes

Model Number	Description
CBX-J1201E1/i3	Computing Box with Fanless 12th Gen. Core-i3 processor
CBX-J1201E1/i5	Computing Box with Fanless 12th Gen. Core-i5 processor
CBX-J1201E1/i7	Computing Box with Fanless 12th Gen. Core-i7 processor
CBX-J1301E1/i3	Computing Box with Fanless 13th Gen. Core-i3 processor
CBX-J1301E1/i5	Computing Box with Fanless 13th Gen. Core-i5 processor
CBX-J1301E1/i7	Computing Box with Fanless 13th Gen. Core-i7 processor

CBX-J1201E1/CBX-J1301E1-05-04-2024