



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

Graphics	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

Audio	HD audio: Realtek ALC888S (with 3W Amp.)
Rear Panel I/O	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) 5 x COM (2 x RS232/422/485, 3 x RS232)
Front Panel I/O	1 x Power button, 1 x Reset 1 x Power LED, 1 x HDD LED 4 x USB2.0 1 x FAN link con
Internal Connector	SIM Card Holder 1 x GPIO
Network	1 x Intel i225-V 2.5GbE 1 x Intel i225-LM 2.5GbE

Power

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

Expansion

Expansion	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

CPU / Chipset	Intel® 12th/13th (Alder Lake-S/Raptor Lake-S) LGA1700 Socket Core i7/i5/i3 Processor Max. 65W TDP Intel® Q670E chipset
BIOS	AMI Flash ROM BIOS
Memory	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
Storage	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
OS Support	Windows 11, Linux

Environment

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

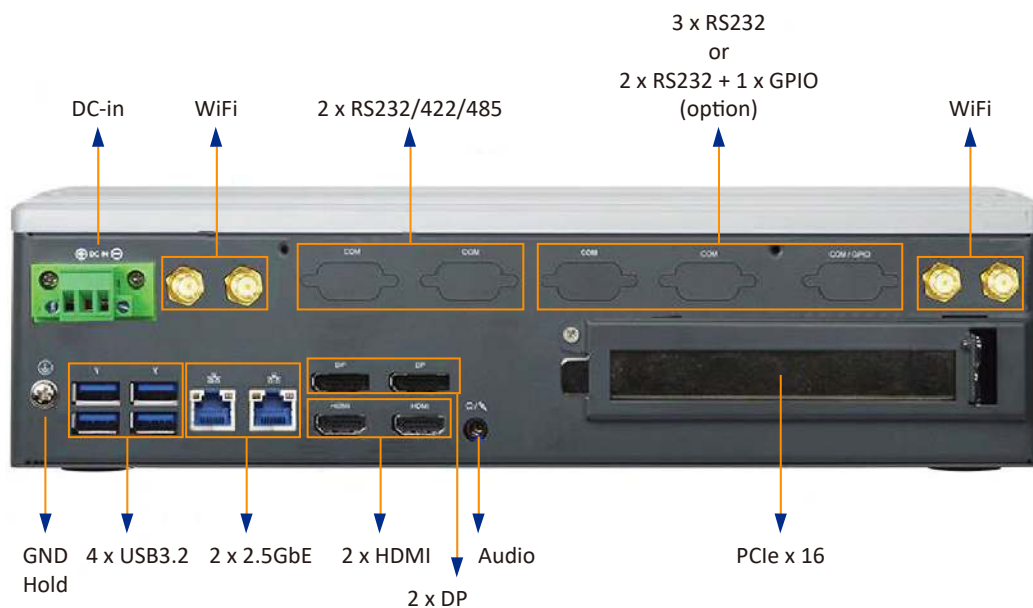
Certification Information (in Process)

Certification	CE, FCC, LVD, RoHS, ErP
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Physical

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

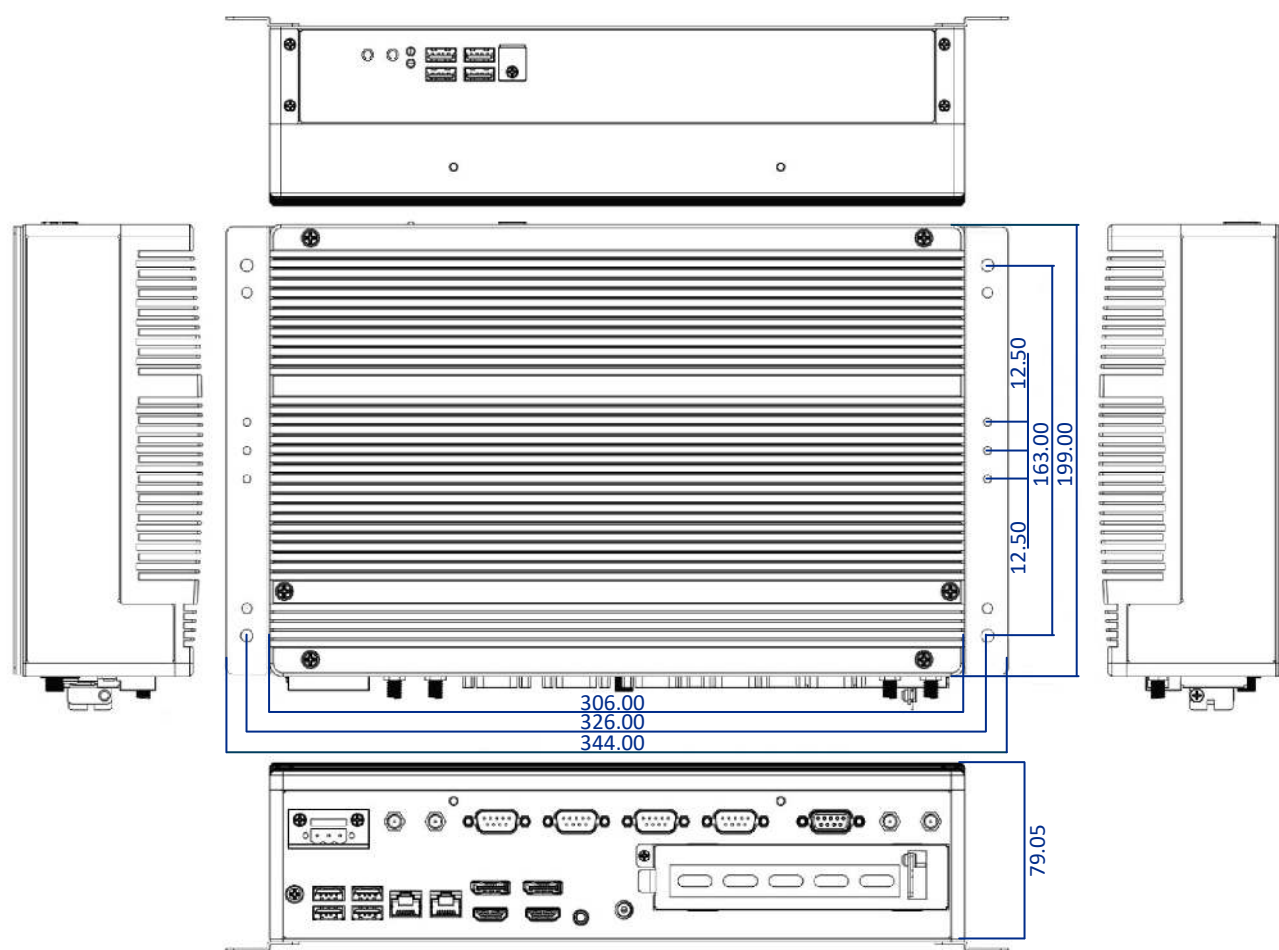
■ Product Front I/O View



■ 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

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