CMC300-F2x Series

Cabinet Mount Fanless PC with Intel® Xeon® E-2278GEL and 8th & 9th generation Intel® Core™ i7/i5/i3 processors

Main Features

- Fanless system design
- Intel® Xeon® E-2278GEL and 8th & 9th generation Intel® Core™ i7/i5/i3 LGA socket type processors
- 2 x Gigabit Ethernet
- 2 x USB 2.0, 2 x USB 3.0, 1 x COM RS232/422/485
- IP65 protection on the outside heatsink

- 1 x DVI-D display output
- 2 x DDR4 up to 64GB
- 1 x mini-PCIe for storage device
- 2 x Easy-access 2.5" SSD trays
- Support power input 24 VDC

Product Overview

The CMC300-F2x industrial fanless PC series has been designed with the purpose of being installed in the plate of the control cabinet or in the rear plate of a control cabinet. This fanless PC cut-in to a suitable cut-out in the control cabinet and its heatsink is at outside the cabinet with IP65 protection. The CMC300-F2x is up to high performance Intel® Xeon® grade CPU with two PCIe x4 expansion and two external 2.5" HDD trays. This product meets easy maintenance condition in the industrial such as wind power, charging station.

Specifications

CPU Support
- Support Intel® Xeon® E-2278GEL
- Support 8th & 9th generation Intel® Core™ i7/i5/i3 LGA socket type:
  - Intel® Core™ Core i3-8100T, i5-8500T, i7-8700T
  - Intel® Core™ Core i3-9100TE, i5-9500TE, i7-9700TE
- Support up to TDP 35W CPU

PCH
- Intel® C246 PCH

Main Memory
- 2x DDR4 2400/2666 SO-DIMM sockets, support up to 64GB with non-ECC and un-buffered

I/O Interface Status LEDs
- Power
- SATA (SSD)

I/O Interface
- DC power input connector: 3-pin Phoenix contact terminal blocks
- COM: 1 x RS232/422/485
- Display: 1 x DVI-D port
- Ethernet: 2 x RJ45
  - LAN: 1 x Intel® I219-LM PHY LAN and 1 x Intel® I210-IT Gigabit LAN
  - Ethernet interface: 10/100/1000 Mbps
  - Support wake up on LAN

- 2 x USB 2.0 ports
- 2 x USB 3.0 ports
- 2-Pin remote power on/off
- 1 x Easy-access RTC battery socket

Storage Device
- 2 x Easy-access 2.5" SSD trays
- 1 x mini-PCIe slot for storage

Expansion
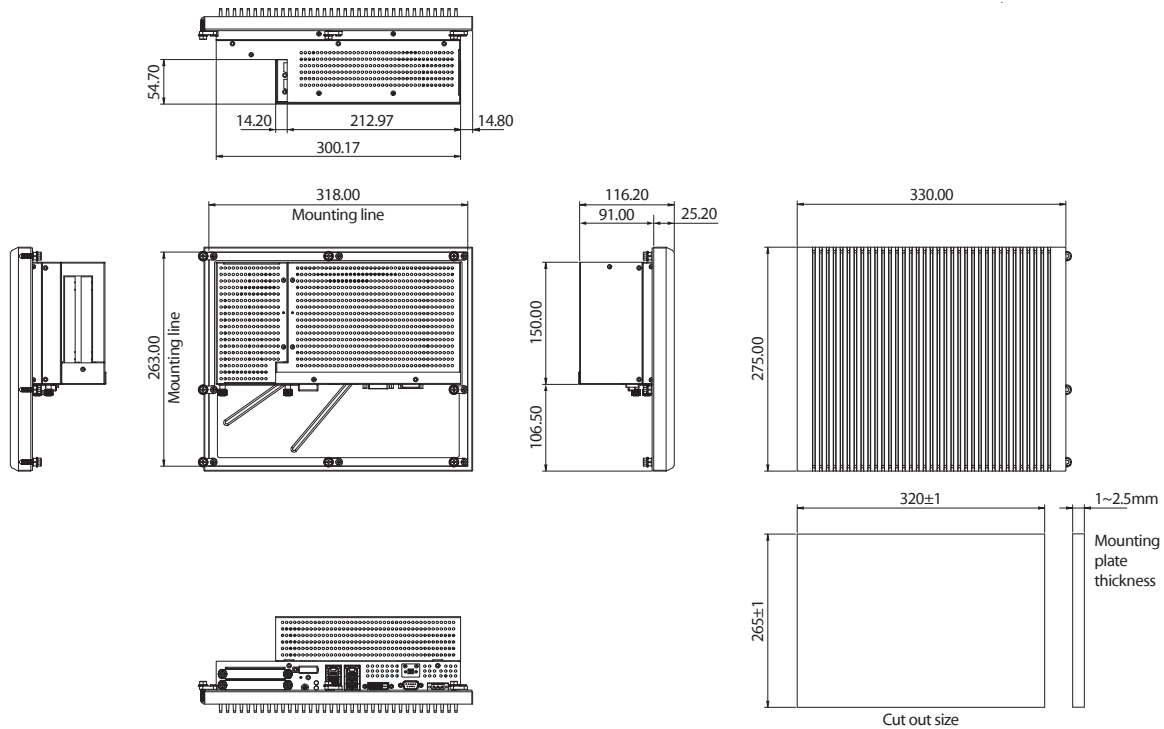- Two PCIe x4 expansion slots from PCIe x8 Riser card

Power Requirements
- DC power input:
  - Input voltage: 18VDC -5% to 24VDC +10%, 7.5A
  - Reverse polarity protection

Environment
- Operating temperature:
  - 0°C to 55°C with natural convection
  - 0°C to 60°C with mild forced airflow
- Operating humidity support 10%~90% relative humidity, non-condensing
- Vibration protection w/ HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-64

NEXAIOT

Dimension Drawing

Mounting line
Mounting line
Cut out size
Mounting plate thickness

Dimensions
- Dimension: 330mm x 275mm x 116.2mm
- Weight: 6 KG

Construction
- Aluminum extrusion heat sink and iron nickel plating housing
- Back cover with reserved RAID card heatsink hole
- IP65 protection for the outside heatsink

Certifications
- CE (EN61000-6-2/EN61000-6-4)
- FCC Class A

OS Support List
- Windows 10 64-bit

Ordering Information

Barebone

- **CMC300-F22 (P/N: 10CM0030001X0)**
  Cabinet mount controller fanless PC with Intel® Core™ i7-9700TE 1.8GHz, and two PCIe x4 expansion slots

- **CMC300-F23 (P/N: 10CM0030002X0)**
  Cabinet mount controller fanless PC with Intel® Core™ i5-9500TE 2.2GHz, and two PCIe x4 expansion slots

Options

- **DDR4 DRAM 16GB (P/N: 72BGM16G07H00)**

- **DDR4 DRAM 32GB (P/N: 72BGM32G02H00)**

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