

# CMC 300-F2x

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



## Main Features

- Fanless system design
- Intel® Xeon® E-2278GEL and 8th & 9th Gen 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 CMC 300-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 CMC 300-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 Gen 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
- Support ECC with Intel® Xeon® processor

### 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

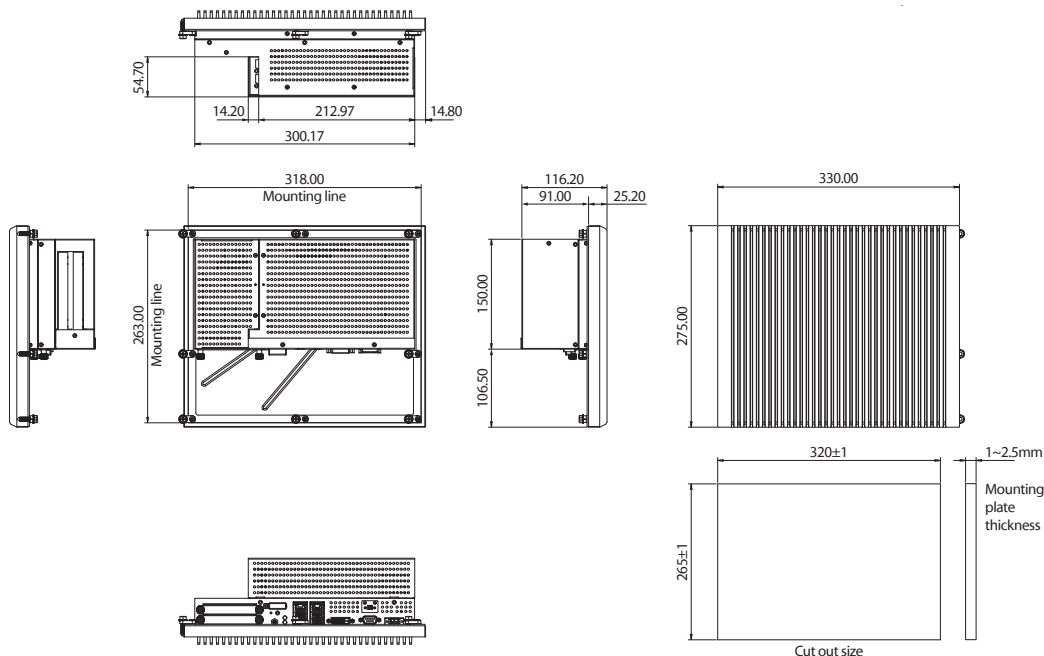
### Environment

- 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

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## Dimension Drawing



### 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

- **CMC 300-F22 (P/N: 10CM0030001X0)**  
Cabinet mount controller fanless PC with Intel® Core™ i7-9700TE 1.8GHz, and two PCIe x4 expansion slots
- **CMC 300-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)**

## Assured Systems

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### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660