



## 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

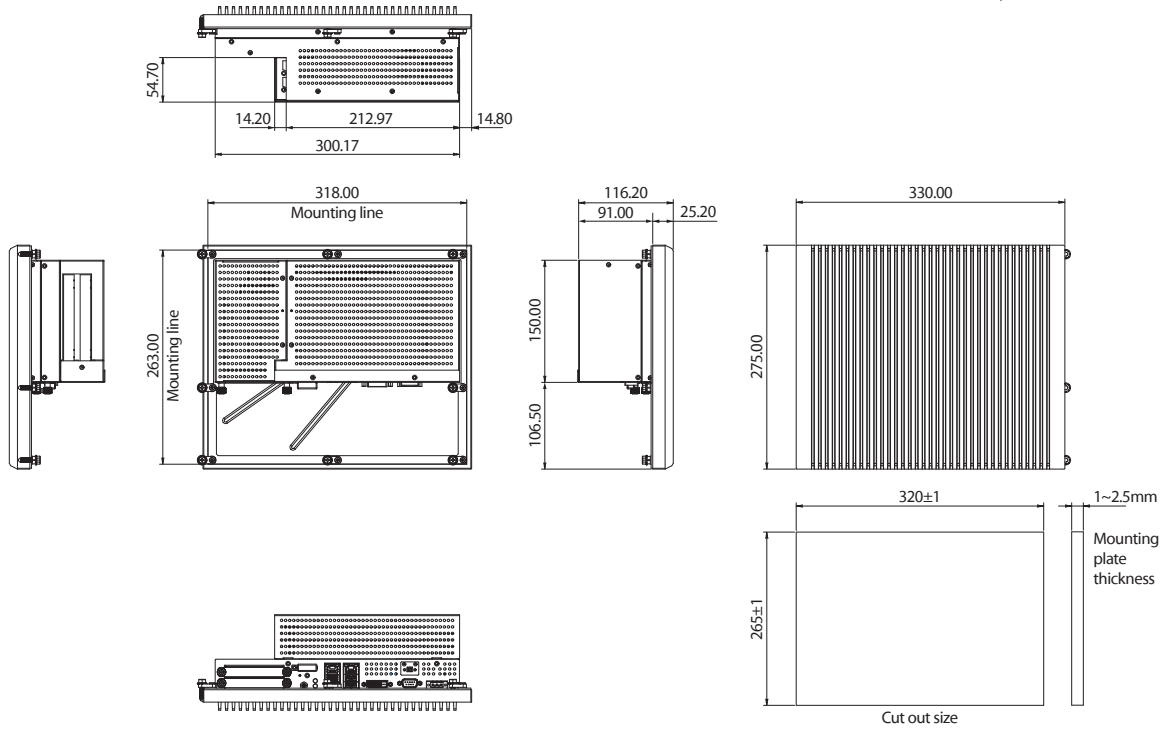
### Power Requirements

- ♦ 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

## 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)**