TT 300-F30

6, 7, 8, 9th Gen Intel® Core™ i7/i5/i3 Fanless System with Expansion

Main Features

- Support 6, 7, 8, 9th Gen Intel® Core™ i7/i5/i3 socket type processor
- Intel® H310C PCH
- 2 x HDMI (dual display)
- 4 x USB3.0, 2 x RS232/422/485, 4 x RS232
- 1 x M.2 2280 Key M (storage)

- 1 x M.2 3042 Key B (wireless connectivity)
- 1 x mSATA/miniPCIe (co-lay)
- 1 x PCIe x16
- 2 x PCIe x4
- 1 x SIM card socket
- Support +12V/24VDC input; support ATX power mode

Product Overview

The newest addition to NEXCOM's fanless systems for factories and production lines is so versatile that, with its appearance, you might be convinced that it can even toast bread! The TT Series kicks off with the 300 model along with two variants with (TT300-F30) and without (TT300-F00) expansion. Choosing the extender means that you have numerous expansion capabilities at your fingertips, including a graphics card for advanced AI and predictive maintenance uses. With or without the extension, the TT 300 is an all-around fanless computer that supports an extensive range of 6th, 7th, 8th, and 9th Intel® CPUs, giving you the flexibility to adapt to both older Windows 7 and newer Windows 10 operating systems, without completely overhauling your ecosystem. The onboard M.2 slots are perfect for storage or communication, while the TT 300's lightweight but sturdy design ensures that it's the winning choice for industrial environments.

Specifications

CPU Support
- Support 6, 7, 8, 9th Gen Intel® Core™ i7/i5/i3 socket type processor
  - Intel® Celeron® G4900T, 2 Core, 2.9GHz, 2M Cache
  - Intel® Core™ i5-8500T, 6 Core, 2.1GHz, 9M Cache
  - Intel® Core™ i7-8700T, 6 Core, 2.4GHz, 12M Cache

Main Memory
- 1 x DDR4 2133/2400/2666 SO-DIMM socket, supports up to 16GB

Display Option
- Dual independent display
  - 2 x HDMI

Front I/O Interface Status LEDs
- 2 x GPO status
- COM TX/RX LEDS

Front I/O Interface
- ATX power on/off switch
- 4 x USB 3.0 ports
- 2 x HDMI
- 1 x Intel® I210-IT and 1 x Intel I219LM GbE LAN ports
- 6 x DB9 for COM1 to COM6
  - COM1/2: RS232/422/485 auto flow control
  - COM3/4/5/6: RS23
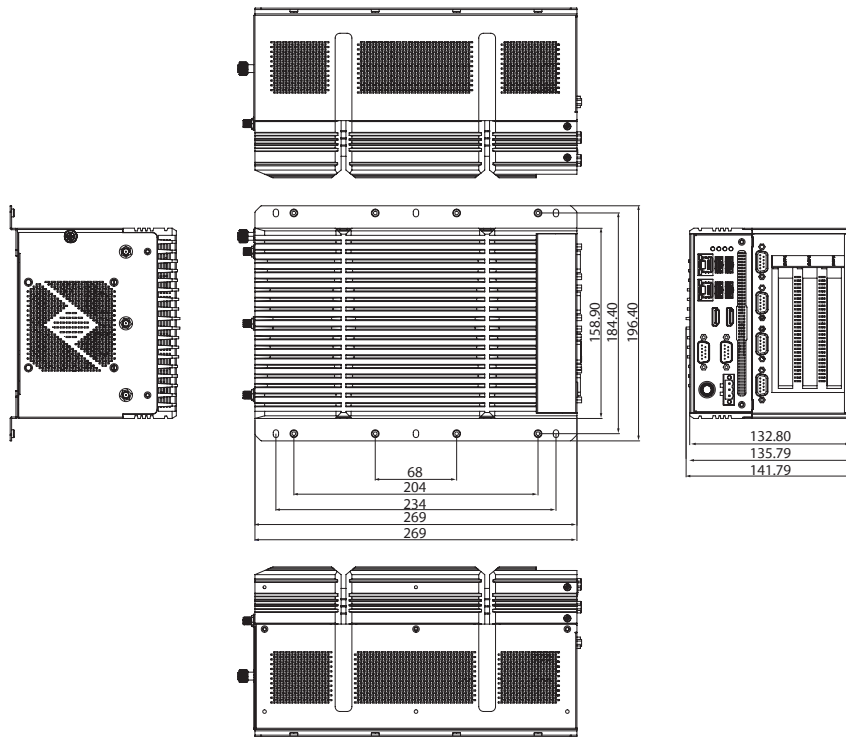
Rear I/O Interface
- 4 x Antenna holes

Storage Device
- 2 x SATAIII 2.5" SSD
- 1 x M.2 2280 (Key M, PCIe x1, SATA)
- 1 x M.2 2242/3042(Key B, PCIe x1, USB 2.0)
- 1 x mSATA (co-lay with mini-PCIe)

Expansion Slot
- 1 x Optional system fan kit
- 1 x PCIe x16 (with power output from riser card)
  - Add-on card length: 250mm max. (w/o system fan)
  - Add-on card length: 225mm max. (w/ system fan)
  - Power consumption: 150W/slot max
- 2 x PCIe x4 (only support PCIe x1 speed and signal)
  - Add-on card length: 169mm max.
  - Power consumption: 10W/ slot max
- 1 x mini-PCIe socket support optional Wi-Fi/3.5G/4G LTE (co-lay with mSATA)
- 1 x Nano SIM Card slot

Dimension Drawing

Power Requirements
♦ AT/ATX power mode (default: ATX power mode)
♦ Power input: +12/+24V DC in
♦ Power adapter: optional AC to DC power adapter (24V DC, 120W/180W)

Dimensions
♦ 269(W) x 159(D) x 136(H) without wall mount bracket

Construction
♦ Aluminum and metal chassis with fanless design

Environment
♦ Operating temperature: ambient with air flow: -5°C to 50° (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
♦ Storage temperature: -20°C to 80°C
♦ Relative humidity: 10% to 95% (non-condensing)
♦ Shock protection:
  - SSD: 20G, half sine, 11ms, IEC60068-2-27
  - M.2: 50G, half sine, 11ms, IEC60068-2-27
♦ Vibration protection with SSD & M.2 condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6
♦ Vibration protection with SSD & M.2 condition:
  - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications
♦ CE approval- EN61000-6-2- EN61000-6-4
♦ FCC Class A

OS Support Lists
♦ Windows 10 64-bit

Weight Information
♦ Gross weight: 5.3kg
♦ Net weight: 4.4kg

Ordering Information

♦ **TT 300-F30 without CPU (P/N: 10JT0030003X0)**

♦ **24V, 120W AC to DC power adapter w/o power cord (P/N: 7400120029X00)**

♦ **24V, 180W AC to DC power adapter w/o power cord (P/N: P/N: 7400180012X00)**

♦ **TT 300 expansion fan kit (P/N: 10JT0030012X0)**