

# TT 300-F30/1/2/3

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-F31) or without (TT300-F01) expansion extender). 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: RS232

### 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: 220mm max.
  - 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

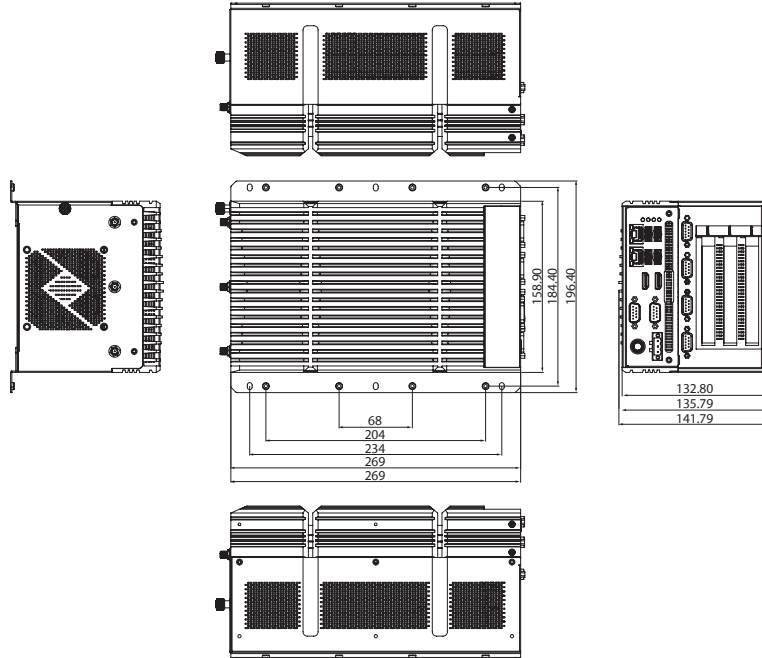
### Power Requirements

- AT/ATX power mode (default: ATX power mode)
- Power input: +12/+24V DC in



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### Dimension Drawing



- 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, IEC60068-2-64
- 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

- TT300-F30 without CPU  
(P/N: 10JT0030003X0)
- TT300-F31 with CPU Celeron G4900T  
(P/N: 10JT0030000X0)
- TT300-F32 with CPU i5-8500T  
(P/N: 10JT0030004X0)
- TT300-F33 with CPU i7-8700T  
(P/N: 10JT0030005X0)
- 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)



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