TT 300-A2Q/A3Q

13/12th Gen Intel® Core™ i7/i5/i3
High Performance System with Expansions



TT 300-A2Q



TT 300-A3Q

Main Features

- Support 13/12th Gen Intel® Core™ i7/i5/i3 socket type processor
- Intel® Q670E PCH
- 2 x HDMI® & 2 x DP
- 4 x USB 3.2, 2 x RS232/422/485, 6 x RS232 (2 x RS232 if-A3Q)
- 1 x M.2 2280 Key M (PCIe x4, SATA)
- 1 x M.2 Key B 2242/3042/3052 (PCIe x1, USB 3.0, SATA)
- 1 x mini-PCIe (PCIe x1, USB 2.0, SATA)
- 1 x PCIe x16 (TT300-A3Q only)
- 2 x PCIe x4
- 2 x PCI (TT300-A3Q-1EP2 only)
- 1 x SIM card socket
- Support 24VDC input; support ATX power mode

Product Overview

The latest member to NEXCOM's systems with expansions for factories and production lines is so versatile that, based on its appearance, you might be convinced that it is a toaster! The TT series kicks off with the 300 model along with two variants, offering 3 (TT 300-A3Q) or 2 expansion slots (TT 300-A2Q). Choosing among the variants mean that you will have numerous expansion capabilities at your fingertips, including a graphics card for advanced AI and predictive maintenance uses. 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 13/12th Gen Intel® Core™ i7/i5/i3 socket type processor

Main Memory

- 1 x DDR5 4800MHz SO-DIMM socket, supports up to 32GB

Display Option

- Quad independent display
  - 2 x HDMI®
  - 2 x DP

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 3.2 ports
- 2 x HDMI®
- 2 x DP
- 2 x 1GbE LAN port with Intel® I226-V
- 4 x DB9 for COM1 to COM4
  - COM1/2: RS232/422/485 auto flow control
  - COM3/4: RS232
  - COM5/6/7/8: RS232 (TT 300-if A2Q)

Rear I/O Interface

- 6 x Antenna holes

Storage Device

- 2 x 2.5" SSD slots
- 1 x M.2 Key M 2280 (PCIe x4, SATA)
- 1 x M.2 Key B 2242/3042/3052 (PCIe x1, USB 3.0, SATA)
- 1 x mini-PCIe socket (PCIe x1, USB 2.0, SATA)

Expansion Slot

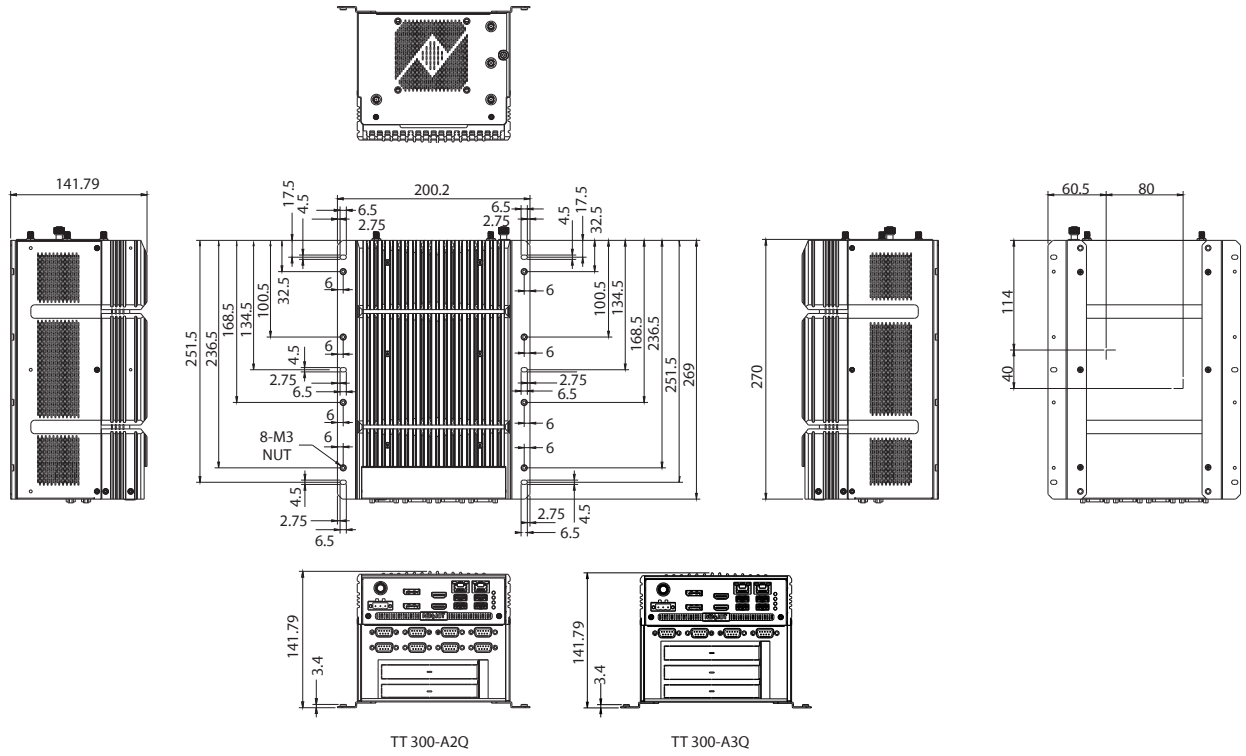
- 1 x PCIe x16
  - Add-on card length: 225mm max (w/ system fan)
  - Power consumption: 75W/slot max
- Two PCIe x4 or Two PCI (TT300-A3Q-1EP2 only)
  - Add-on card length: 169mm max
  - Power consumption: 25W/slot max
- 1 x mini-PCIe socket support optional mSATA/Wi-Fi/4G LTE
- 1 x Nano SIM card slot

Power Requirements

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

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Dimension Drawing



Dimensions
- 200.2 (W) x 270 (D) x 141.8 (H) mm

Construction
- Aluminum and metal chassis design

Environment
- Operating temperature: ambient with air flow: -5°C to 55°C (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
- UL/cUL

OS Support Lists
- Windows 10 64-bit

Weight Information
- Gross weight: 5.9kg
- Net weight: 4.4kg

Ordering Information

- **TT 300-A2Q barebone (P/N: 10JT0030023X0)**
- **TT 300-A3Q barebone (P/N: 10JT0030024X0)**
- **TT300-A3Q-1EP2 barebone (P/N: 10JT0030028X0)**
- **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: 7400180012X00)**

We reserve the right to change specifications and product descriptions at any time without prior notice.