

Main Features

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

Product Overview

Leveraging the expandable TT300-A2Q/A3Q platform, NexAloT introduces the TT300-A0Q, a fanless PC specifically designed for customers who don't require expansion capabilities. This new model maintains the high-performance Intel 12th/13th Gen. CPU support found in its expandable counterparts.

While the TT300-A0Q lacks PCI/PCIe expansion slots, it offers an M.2 2242/3042/3052 Key B slot for 5G connectivity or SSD storage. Additionally, the PCIe x4 with NVMe support M.2 2280 Key M slot allows customers demanding high-speed SSDs to experience a significant performance boost.

Despite its reduced size, the TT300-A0Q prioritizes functionality with four serial ports, ideal for automation or gateway control applications within its target market. Furthermore, its sturdy design and compact size make it a winning choice for both industrial and retail environments.

Specifications

CPU Support

- Support 12/13th 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 3.0 ports
- 2 x HDMI
- 2 x DP
- 2 x GbE LAN port with Intel® I225-V
- 4 x DB9 for COM1 to COM4
 - COM1/2: RS232/422/485 auto flow control
 - COM3/4: RS232

Rear I/O Interface

- 4 x Antenna holes

Storage Device

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

Expansion Slot

- 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)

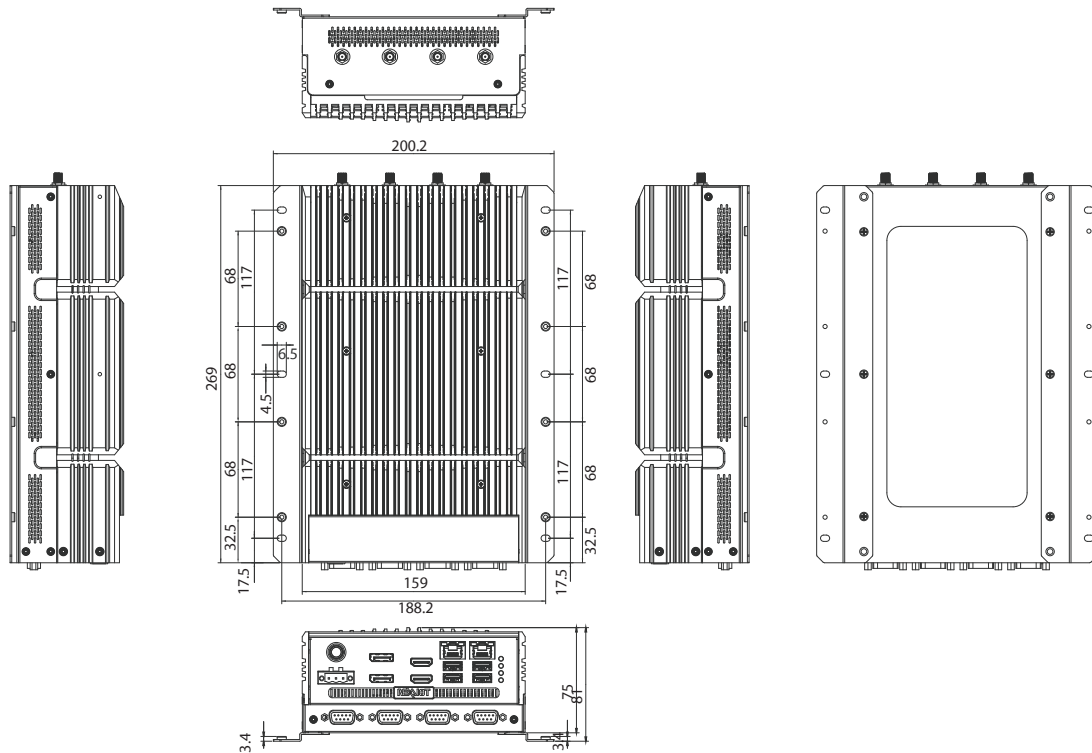
Dimensions

- 200.2 (W) x 270 (D) x 81 (H) mm

Construction

- Aluminum and metal chassis design

Dimension Drawing



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

OS Support Lists

- Windows 10 64-bit

Weight Information

- Gross weight: 5.3kg
- Net weight: 4.4kg

Ordering Information

- TT300-A0Q barebone (P/N: 10JT0030022X0)
- 24V, 120W AC to DC power adapter w/o power cord (P/N: 7400120029X00)