Neu-XE102-N50-4C

Main Features

- Intel® processor N50
- Slim compact chassis and fanless design
- 1 x DDR4 SO-DIMM, up to 16GB
- Support 2 x HDMI® 1.4 output 4K@30Hz
- TPM 2.0 design for security

- Rich I/O connectivity: 2 x 2.5GbE LAN, 3 x USB 3.2, 1 x USB 2.0, 4 x COM
- 1 x M.2 Key M 2242, supports a PCIe 3.0 x1 NVMe storage device
- 1 x Mini PCIe slot, supports a Wi-Fi and LTE module
- DC 12V power input

Product Overview

The Neu-XE102-N50-4C is powered by Intel® Processor N50, which features upgraded computing performance with low power consumption and integrated a rich set of IoT features. It supports dual HDMI® 1.4 display outputs, dual 2.5GbE LAN ports, three USB 3.2 ports, one USB 2.0 port, two RS-232/422/485 ports, two RS-232 ports and an M.2 Key M 2242 storage slot that supports PCIe format. In addition, the Mini PCIe slot supports LTE and Wi-Fi 6/6E module. With LTE and Wi-Fi communication, it provides wide-area coverage and real-time transmission for gateway applications.

With its fanless design and extended durability, it can further support a wide range of applications, including IoT gateways, self-service kiosks, endless aisles, QSRs, drive-thru kiosks, bus stops, digital transit information signs, intelligent pole/lighting systems, and information display systems such as PIDS for smart cities.

Specifications

CPU Support

- Intel® processor N50, TDP 6W

Graphics & Display

- Intel® UHD graphics

Main Memory

- 1 x DDR4 SO-DIMM, non-ECC, unbuffered, up to 16GB

I/O Interface-Front

- 2 x Antenna hole
- 2 x COM port (DB9), supports RS-232/422/485
- 2 x COM port (DB9), supports RS-232
- 1 x Storage active LED

I/O Interface-Rear

- 2 x 2.5GbE RJ45 port
- 2 x HDMI® 1.4, up to 3840x2160@30Hz
- 3 x USB 3.2, 10 Gbps, Type-A
- 1 x USB 2.0, Type-A
- 1 x Power button with LED
- 1 x DC input jack with lock

Internal I/O

- 1 x 4-pin header, supports speaker out amplifier 2W/4Ω
- 1 x 9-pin header, supports mic in and line out
- 1 x 10-pin header for GPIO, 4 x GPI, 4 x GPO

Expansion

- 1 x Mini PCIe with SIM slot, supports a Wi-Fi/BT/4G LTE module

Storage

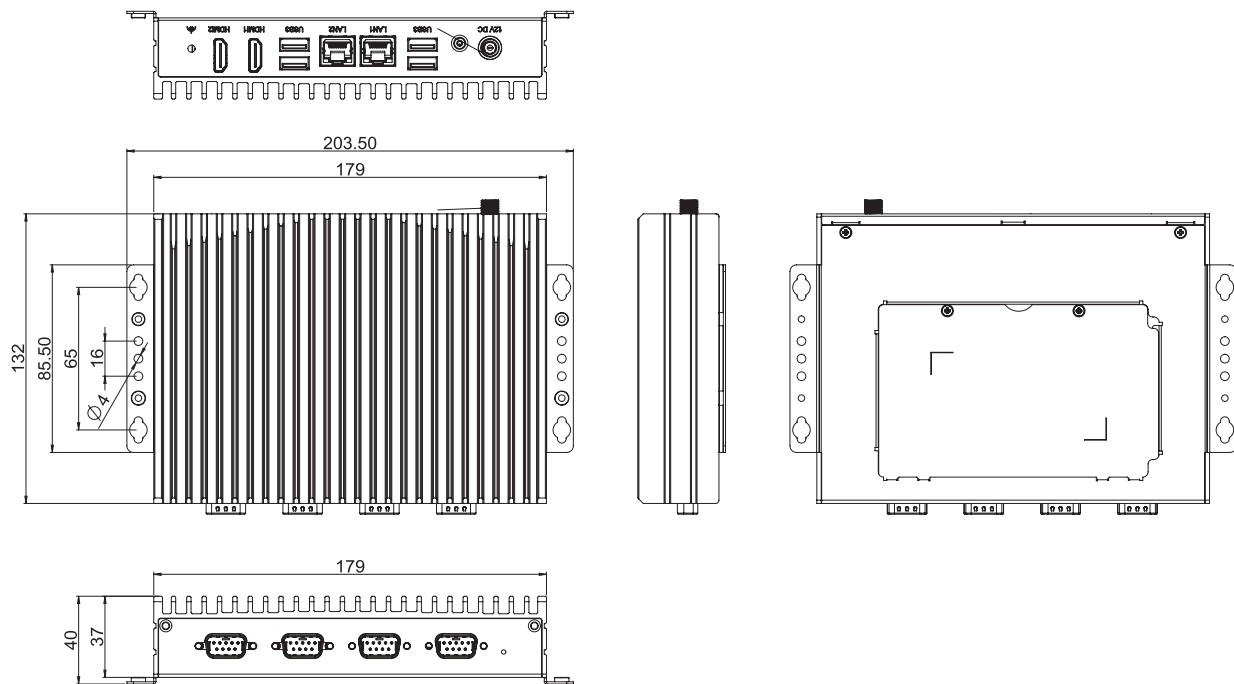- 1 x M.2 Key M 2242 SSD (PCIe 3.0 x1)

Power Supply

- DC 12V input
- +12V, 60W AC/DC power adapter in carton

Environment

- Temperature:
  - Ambient with air flow: -5°C~50°C
  - Storage temperature: -20°C~80°C
- Relative Humidity: 95% (non-condensing)
- Shock protection: 50G peak acceleration, 11ms according to IEC 60068-2-27

Dimension Drawing

- Vibration protection
  - Random: 2Grms@5Hz~500Hz, IEC 60068-2-64
  - Sinusoidal: 2G@5Hz~500Hz, IEC 60068-2-6

Mechanical & Dimension

- System unit
  - Dimensions: 203.5mm (W) x 132mm (D) x 40mm (H) (w/ bracket)
  - Net weight: 0.99kg
- Package carton
  - Dimensions: 282mm (W) x 273mm (D) x 188mm (H) (w/ bracket)
  - Gross weight: 1.87kg (1 unit per carton)

Certification

- CE (EN 55035 + EN 55032)
- FCC Class A (EMI part 15B)
- LVD (EN 62368-1)

Operating System

- Windows 11
- Windows 10, 64-bit
- Linux

Ordering Information

- **Neu-XE102-N50-4C (P/N: 10W10E10201X0)**

  Intel® processor N50, 6W fanless system