



Main Features

- Intel® Processor N97
- Slim compact chassis and fanless design
- 1 x DDR4 3200 SO-DIMM, up to 16GB
- Support 2 x HDMI® 1.4 output 4K@30Hz
- Rich I/O connectivity: 2 x 2.5GbE LAN, 3 x USB 3.2, 4 x USB 2.0, 6 x COM
- 1 x M.2 Key M 2242 for supporting a PCIe storage device
- 2 x 2.5" SSD tray for supporting SATA storage
- 1 x Mini PCIe slot supports a Wi-Fi/BT/4G LTE module
- TPM 2.0 design for security
- Support power input 12V DC

Product Overview

The Neu-XE102-N97-6C2S is powered by the Intel® Processor N97, which features upgraded computing performance, low power consumption, and a rich set of integrated IoT features. It supports dual HDMI® 1.4 display outputs, dual 2.5GbE LAN ports, three USB 3.2 ports, four USB 2.0 ports, two RS-232/422/485 ports, four RS-232 ports, two 2.5" SSD trays and an M.2 Key M 2242 storage slot that supports PCIe and SATA 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

Processor

- Intel® Processor N97, TDP 12W

Integrated Graphics

- Intel® UHD Graphics

Memory

- 1 x DDR4 3200 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
- 4 x COM port (DB9), supports RS-232
- 1 x Storage active LED
- 3 x USB 2.0, Type-A

I/O Interface Rear

- 2 x 2.5GbE RJ45 LAN port with LEDs
- 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

I/O Interface Internal

- 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 Slot

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

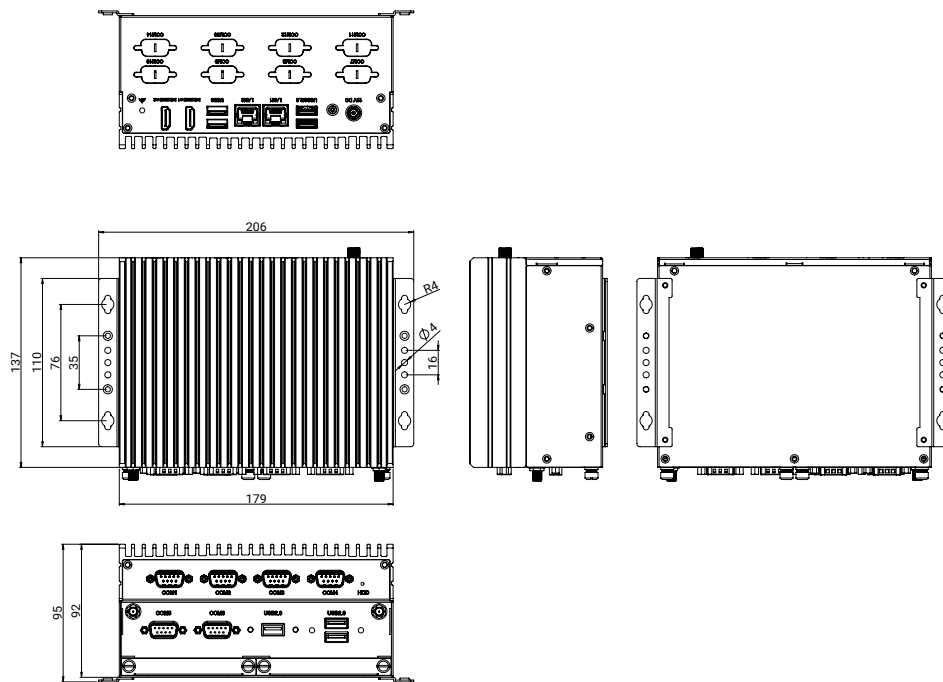
Storage

- 1 x M.2 Key M 2242 SSD (PCIe 3.0 x1)
- 2 x 2.5" SSD tray

Power Supply

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

Dimension Drawing



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

Mechanical

- Dimensions: 203mm (W) x 137mm (D) x 95mm (H) (w/ bracket)
- Net weight: 1.58kg

Package Information

- Dimensions: 282mm (W) x 273mm (D) x 188mm (H)
- Gross weight: 2.46kg (1 unit per carton)

Certifications

- 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-N97-6C2S (P/N: 10W10E10200X0)**
Intel® Processor N97, 12W fanless system