

# Neu-X1025-N305

Edge Computing System  
Powered by Intel® Core™ i3-N305 Processor



## Main Features

- Intel® Core™ i3-N305 processor
- Slim compact chassis and fanless design
- 1 x DDR5 4800 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, 4 x USB 3.2 Gen 2
- 1 x M.2 Key M 2242 for supporting PCIe & SATA storage device
- 1 x Mini PCIe slot, supports a Wi-Fi/LTE module
- Support DC 12V power input

## Product Overview

The Neu-X1025-N305 is powered by the Intel® Core™ i3-N305 processor, featuring upgraded computing performance, low power consumption, and integrating a rich set of IoT features. It supports dual HDMI® 1.4 display outputs, dual 2.5GbE LAN ports, four USB 3.2 Gen 2 ports, an RS-232/422/485 port and an M.2 Key M 2242 storage slot that supports PCIe and SATA format. In addition, the Mini PCIe slot supports an LTE or Wi-Fi 6/6E module. With LTE and Wi-Fi communication, the Neu-X1025-N305 provides wide-area coverage and real-time transmission for gateway applications.

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

## Specifications

### Processor

- Intel® Core™ i3-N305 processor, TDP 15W

### Integrated Graphics

- Intel® UHD Graphics

### Memory

- 1 x DDR5 4800 SO-DIMM, non-ECC, unbuffered, up to 16GB

### I/O Interface Front

- 2 x Antenna hole
- 1 x Remote power switch jack
- 1 x COM port, supports RS-232/422/485
- 1 x Storage active LED

### I/O Interface Rear

- 2 x 2.5GbE RJ45 port with LEDs
- 2 x HDMI® 1.4, up to 3840x2160@30Hz
- 4 x USB 3.2 Gen 2
- 1 x Power button with LED
- 1 x DC-in jack with lock

### I/O Interface Internal

- 1 x 9-pin header for COM (RS-232, RI/5V/12V)
- 1 x 9-pin header for audio line out
- 2 x 6-pin header for three USB 2.0 ports
- 1 x 10-pin header for GPIO, 4 x GPI, 4 x GPO

### Expansion Slot

- 1 x Full-size Mini PCIe slot
  - Support a Wi-Fi 6/6E or LTE module
- 1 x nano-SIM slot

### Storage

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

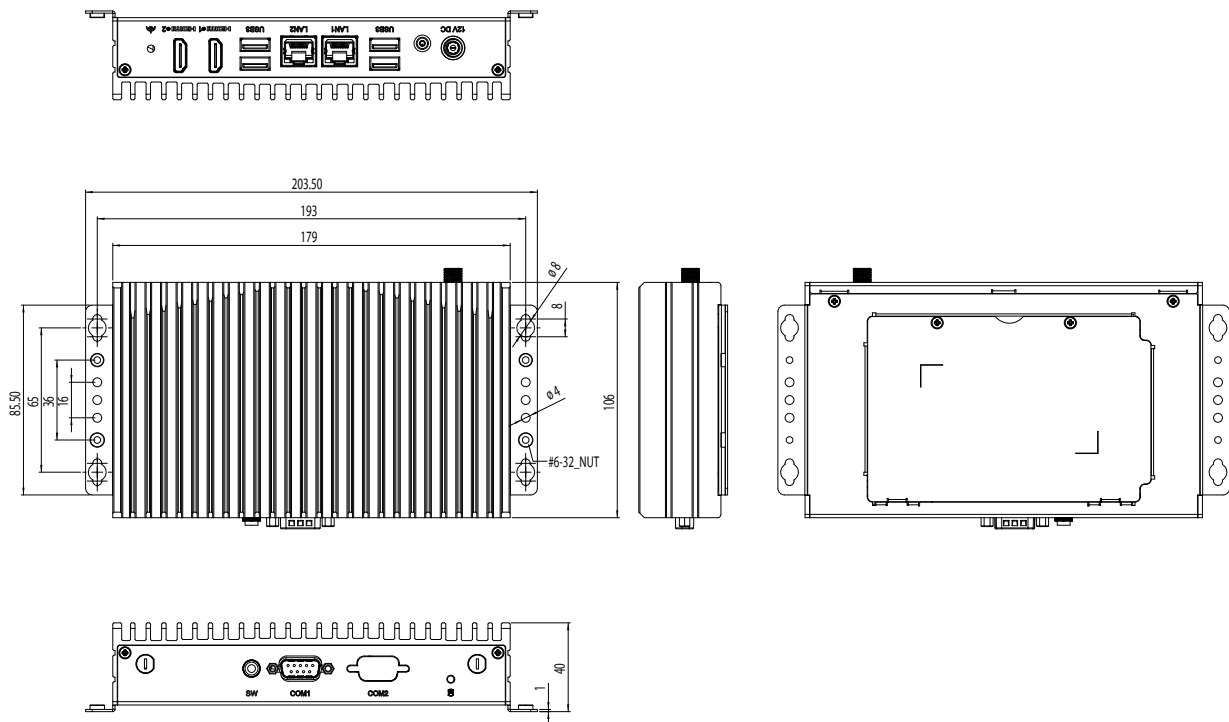
### Power Supply

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

### Environment

- Temperature:
  - Ambient temperature with 0.7m/s air flow: -5°C~50°C
  - Storage temperature: -20°C~80°C
- Humidity: 95% (non-condensing)

## Dimension Drawing



- 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: 203.5mm (W) x 106mm (D) x 40mm (H)
- Weight: 0.88kg

### Package Information

- Dimensions: 296mm (W) x 276mm (D) x 205mm (H)
- Gross Weight: 3.2kg (2 units per carton)

### Certifications

- CE (EN 55035 + EN 55032)
- FCC Class A (EMI Part 15B)
- LVD (EN 62368-1)
- UL/CUL (62368-1)

### Operating System

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

## Ordering Information

- **Neu-X1025-N305 (P/N: 10W10X10215X0)**  
Intel® Core™ i3-N305 processor, slim and fanless system