

# Neu-X102-i3

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



## Main Features

- Intel® Core™ processor, i3-N305
- Slim compact chassis and fanless design
- 1 x DDR4 SO-DIMM socket, max up to 16GB
- Support 2 x HDMI 1.4b output, 4K@30Hz
- TPM 2.0 onboard design for security
- Richful I/O connectivity: 2 x 2.5GbE LAN, 4 x USB 3.2 Gen2
- 1 x M.2 2242 Key M for supporting PCIe & SATA storage device
- 1 x mini-PCIe slot support Wi-Fi and LTE module
- Support power input 12 VDC

## Product Overview

Neu-X102 series are powered by Intel® processor i3-N305 featuring upgraded computing performance with low power-efficient and integrated a rich set of IOT features. It supports 2x HDMI 1.4b display outputs, dual 2.5GbE LAN ports, 4x USB 3.2 Gen2 ports, 1x RS232/RS422/RS485 port and a M.2 2242 Key M storage slot that supports PCIe and SATA format. In addition, the mPCIe slot support LTE and Wi-Fi 6/6E module. With the LTE and Wi-Fi communication, provide the wide-area coverage and real-time transmission for gateway applications.

With its slim, compact-size, fanless design and extended durability can furtherly cover a lot of usages like IOT gateway, self-service kiosks, endless aisles, QSRs, drive-thru kiosks, bus stops, digital transit information signs, intelligent Pole/lighting system, information display system, such as PIDS for smart city.

## Specifications

### CPU Support

- Intel® Core™ processor, i3-N305, 15W, up to 3.8GHz

### Graphic & Display

- Intel® UHD graphics

### Main Memory

- 1 x 260-pin DDR4 SO-DIMM socket, up to 3200MHz with non-ECC, un-buffered memory up to 16GB

### I/O Interface-Front

- 2 x RJ45 with LEDs for 2.5GbE LAN
- 2 x HDMI 1.4b, resolution 3840 x 2160@30Hz
- 4 x USB 3.2
- 1 x Power button with LED
- 1 x DC-in Jack with lock

### I/O Interface-Rear

- 2 x Antenna hole
- 1 x COM port (RS232/RS422/RS485)
- 1 x Storage active LED

### Internal I/O

- 1 x COM port connector (RS232, RI/5V/12V)
- 1 x Line-out audio connector
- 2 x 6-pin header for 3 x USB 2.0 ports
- 1 x 10-pin header for GPIO, 4 x GPI, 4 x GPO

### Expansion

- 1 x mini-PCIe full-size connector with SIM slot (nano) onboard, support Wi-Fi 6/6E & LTE module

### Storage

- 1 x M.2 2242 Key M storage for supporting SATA & PCIe signal

### Power Supply

- 1 x External 12V/5A, 60W power adapter (Included in accessory)
- Input: DC+12V DC

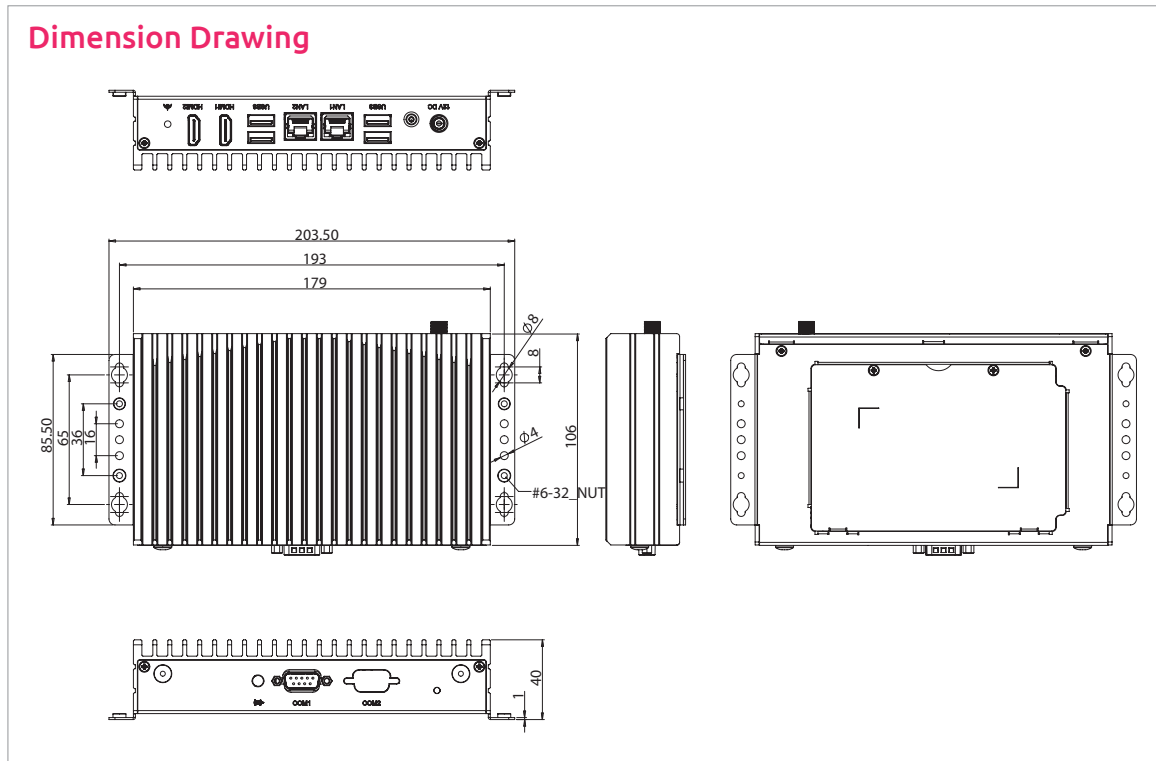
### Environment

- Operating temperature: -5°C to 50°C ambient with 0.7m/s air flow
- Humidity: 95% (non-condensing)
- Storage temperature: -20°C to 80°C
- Shock protection: 50G peak acceleration, 11ms according to IEC60068-2-27

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## Dimension Drawing



- ♦ Vibration protection
  - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2G @ 5~500 Hz, IEC60068-2-6

### Mechanical & Dimension

- ♦ Aluminum and metal chassis with fanless design
- ♦ 203.5mm (W) x 106mm (D) x 40mm (H)

### Certification

- ♦ CE (EN55035 + EN55032)
- ♦ FCC Class A (EMI part 15B)
- ♦ LVD (EN62368-1)

### Operating System

- ♦ Win10 64-bit, Win 11
- ♦ Linux 4.1 above

## Package Information

- ♦ 2pcs/carton
- ♦ G.W: 3.2kgs
- ♦ Dimension: 296x276x205mm

## Ordering Information

- ♦ **Neu-X102-i3 (P/N:10W10X10205X0)**  
Intel® Core™ processor, i3-N305, slim, and fanless system

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660