



Main Features

- Intel® processor N50
- Slim compact chassis and fanless design
- 1 x DDR5 4800 SO-DIMM, up to 16GB
- Support 1 x HDMI® 1.4 output 4K@30Hz
- TPM 2.0 design for security
- Rich I/O connectivity: 1 x LAN, 4 x USB 3.2, 8 x USB 2.0, 3 x COM, 1 x GPIO
- 1 x M.2 Key M 2242, supports a SATA storage device
- 1 x M.2 Key E 2230, supports a Wi-Fi module
- DC 12V power input

Product Overview

The Neu-XE105-N50-12U 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 one HDMI® 1.4 display output, one 2.5GbE LAN port, a comprehensive USB 3.2/2.0 array, three RS-232/485 ports, an M.2 Key M 2242 slot for storage, and an M.2 Key E 2230 slot for a Wi-Fi module.

With class-leading twelve USB ports and a built-in 20W amplifier, it delivers immersive sensory experiences while simplifying peripheral management. The Neu-XE105-N50-12U is a definitive controller for Lottery, Amusement, and Self-Service Kiosks. Featuring 16-pin GPIO and 2.5GbE LAN, it ensures robust, 24/7 reliability for next-generation interactive terminals and automated gaming machines.

Specifications

Processor

- Intel® processor N50, TDP 6W

Integrated Graphics

- Intel® UHD Graphics

Memory

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

I/O Interface Front

- 2 x COM port (DB9), supports RS-232
- 1 x COM port (DB9), supports RS-485
- 1 x 20-pin header for GPIO (16-bit programmable)
- 1 x 4-pin header for speaker out (with 20W/4Ω amplifier)
- 1 x Line out (reserved)
- 1 x Storage active LED

I/O Interface Rear

- 1 x 2.5GbE RJ45 port
- 1 x HDMI® 1.4, up to 3840x2160@30Hz
- 4 x USB 3.2, Type-A

- 8 x USB 2.0, Type-A
- 1 x Power button with LED
- 1 x 2-pin header for DC 12V power input

I/O Interface Side

- 2 x Antenna hole

I/O Interface Internal

- 1 x 9-pin header for mic in and line out

Expansion Slot

- 1 x M.2 Key E 2230, supports a Wi-Fi module

Storage

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

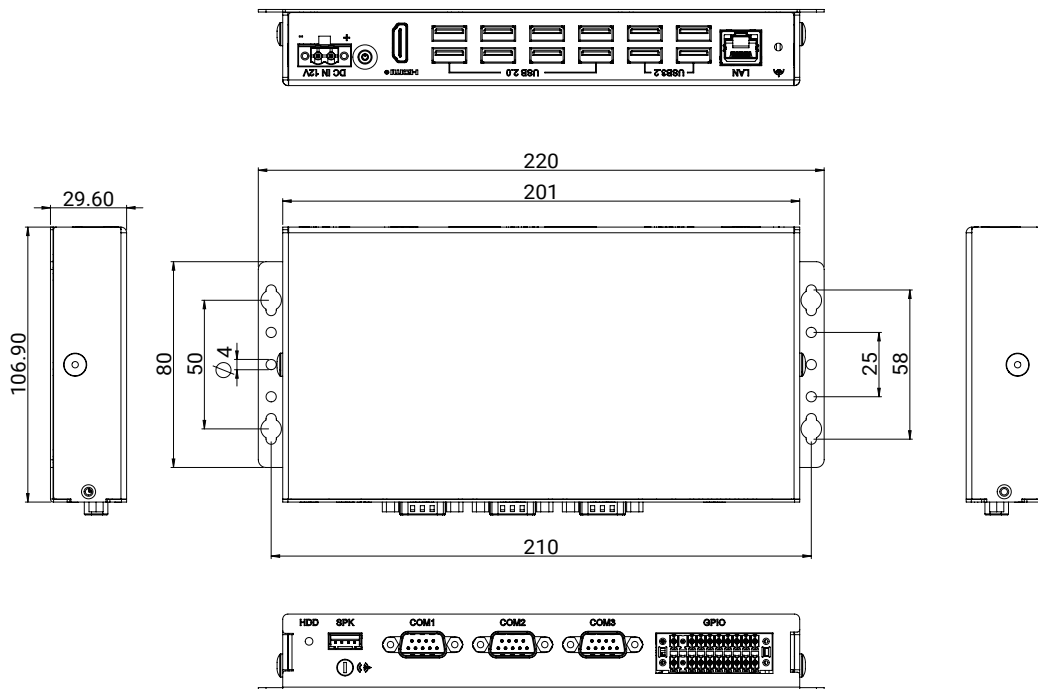
Power Supply

- DC 12V input

Environment

- Temperature:
 - Ambient with air flow: 0°C~45°C
 - Storage temperature: -20°C~80°C

Dimension Drawing



- 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: 220.0mm (W) x 106.9mm (D) x 29.6mm (H)
- Net weight: 0.3kg

Package Information

- Dimensions: 558mm (W) x 388mm (D) x 207mm (H)
- Gross weight: 6.3kg (10 units per carton)

Certifications

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

Operating System

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

Ordering Information

- **Neu-XE105-N50-12U (P/N: 10W10E10500X0)**
Intel® processor N50, 6W fanless system