



Top View



Bottom View

Main Features

- Onboard Intel® Processor N97 Quad Core 2.0GHz
- 1 x HDMI display
- 3 x Intel® I226-IT 2.5GbE LAN port; supports WoL, teaming and PXE
- 2 x USB 3.2 Gen2
- 1 x RS232/485 with auto flow control (TX, RX, CTX, RTX), supports 2.5KV isolation protection
- Onboard TPM 2.0
- Support -20°C to 70°C operating temperature
- Support typical +12/24VDC ±20%

Product Overview

Introducing the NIFE 106 automation system: compact and powerful, it's ideal for entry-level automation needs. The system comes equipped with an Intel® Processor N97, 8GB LPDDR5-4800 SDRAM memory, and 64GB eMMC storage, providing seamless performance. It features all-front I/O, including three LAN ports, one isolated COM port, and two USB 3.2 Gen2 ports, offering unmatched integration flexibility. With onboard TPM 2.0 for security and compliance with industrial standards EN61000-6-2 (EMS), and EN61000-6-4 (EMI), it guarantees reliability and safety. The NIFE 106 can be easily installed on a DIN-rail and has a wide operating temperature range of -20~70 °C, making it the perfect industrial automation solution.

Enhance your automation capabilities with the NIFE 106 - a compact device that delivers performance, reliability, and versatility!

Specifications

CPU Support

- Onboard Intel® Processor N97 Quad Core 2.0GHz

Main Memory

- Onboard LPDDR5-4800 SDRAM, default 8GB (optional by DBOM up to 16 GB), with In-band ECC

Storage Device

- Onboard eMMC 64GB

Display Output

- 1 x HDMI port, resolution up to 3840 x 2160@30Hz

Front I/O Interface

- 1 x HDMI port
- 3 x Intel® I226-IT 2.5 GbE LAN port; supports WoL, teaming and PXE
- 2 x USB 3.2 Gen2 (900mA)
- 1 x DB9, supports RS232/485 with auto-flow control (TX, RX, CTX, RTX), supports 2.5KV isolation protection
- 1 x ATX power on/off switch

Top I/O Interface

- N/A

Internal I/O Interface

- N/A

Expansion

- N/A

Status LED

- 4 x LED status indicator for power, battery, Tx, Rx

Power Requirement

- Power input: typical +12/24VDC ±20%
- 1 x Optional 24V, 60W power adapter

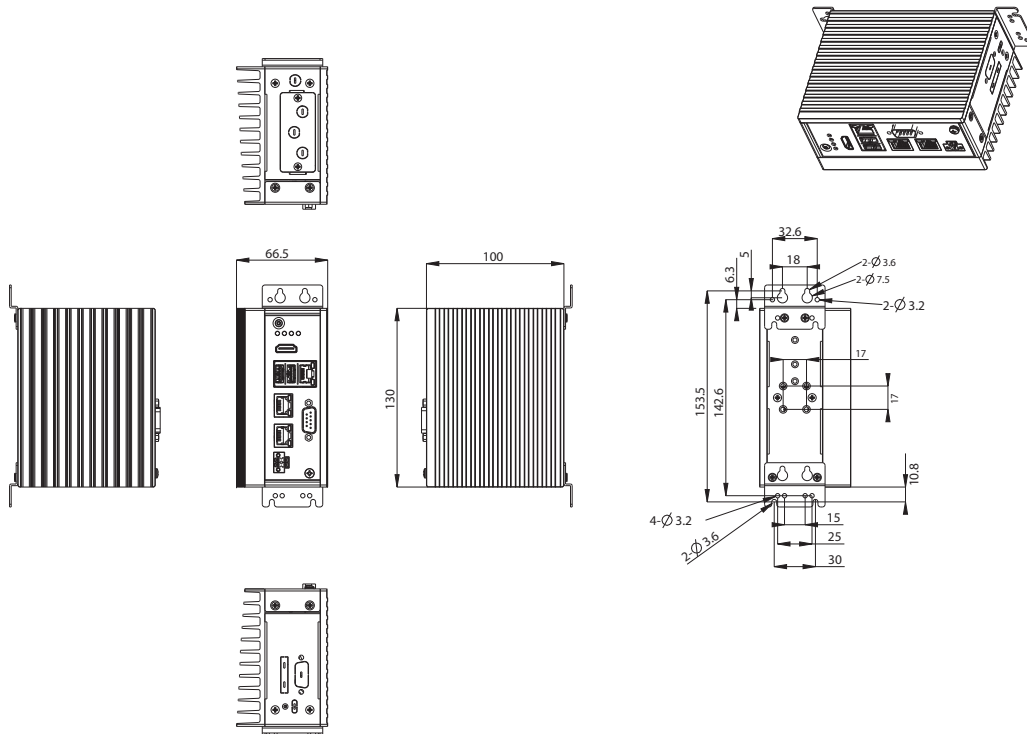
Dimensions

- 66.5mm (W) x 100mm (D) x 130mm (H)

Construction

- Aluminum and metal chassis with front access design

Dimension Drawing



Environment

- Operating temperature
 - Ambient with low airflow: -20 ~ 70°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14) (Tolerance +/- 2°C) for industry-grade
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection
 - eMMC: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/eMMC condition
 - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Weight

- Gross weight: 1.75 kg
- Net weight: 1 kg

Certifications

- CE approval
 - EN61000-6-2
 - EN61000-6-4
- FCC Class A

Support OS

- Windows 11
- Windows 10 Enterprise, 64-bit
- Linux Kernel 4.19

Ordering Information

- **NIFE 106-A01**
(P/N: 10J70010600X0, P/N: 10J70010600XE)
 Intel® Processor N97 Quad Core factory automation fanless system with onboard 8GB memory, and 64GB eMMC
- **24V, 60W AC/DC power adapter w/o power cord**