NIFE 106-A01/03

Top View

Main Features

- Onboard Intel® N97/x7433RE Processor
- 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 RS-232/485 with auto flow control (TX, RX, CTX, RTX), supports 2.5KV isolation protection
- Onboard TPM 2.0
- Support -10°C~60°C operating temperature
- Support typical +12/24V DC ±20%

Product Overview

Introducing the NIFE 106-A01/A03 automation system: compact and powerful, it's ideal for entry-level automation needs. The system comes equipped with an Intel® processor N97/x7433RE, 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 EN 61000-6-2 (EMS), and EN 61000-6-4 (EMI), it guarantees reliability and safety. The NIFE 106-A01/A03 can be easily installed on a DIN-rail and has a wide operating temperature range of -10°C to 60°C, making it the perfect industrial automation solution.

Enhance your automation capabilities with the NIFE 106-A01/A03 - a compact device that delivers performance, reliability, and versatility!

Specifications

CPU Support
- Intel® processor N97, embedded (NIFE106-A01)
- Intel Atom® x7433RE processor, embedded (NIFE106-A03)

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 RS-232/485 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%
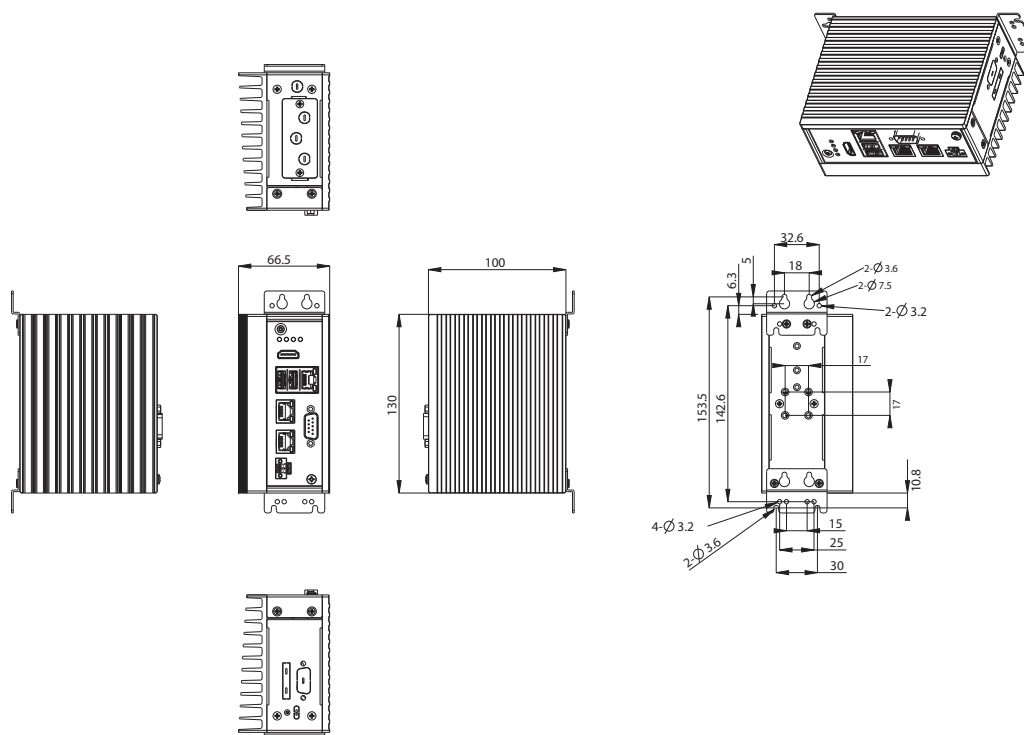- 1 x Optional 24V, 60W power adapter

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: -10~60°C (Default), (according to IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14) (Tolerance +/- 2°C) for industry-grade
  - Ambient with low airflow: -10~55°C (according to IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14) (Tolerance +/- 2°C) for CB/CCC/UL
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~95% (non-condensing)
- Shock protection
  - eMMC: 50G, half sine, 11ms, IEC 60068-27
- Vibration protection w/eMMC condition
  - Random: 2Grms@5~500Hz, IEC 60068-2-64
  - Sinusoidal: 2Grms@5~500Hz, IEC 60068-2-6

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

Certifications
- CE approval
  - EN 61000-6-2
  - EN 61000-6-4
- FCC Class A
- UL/cUL (By request)
- CCC (By request)

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

- **NIFE 106-A03 (P/N: 10J70010604X0)**
  Intel Atom® x7433RE Processor Quad Core factory automation fanless system with onboard 8GB memory, and 64GB eMMC

- **24V, 60W AC/DC power adapter w/o power cord**
  (P/N: 7400060077X00)