



Main Features

- Compliant to IEC 61131-2
- Palm-sized EtherCAT I/O module
- 16-CH digital input (PNP/NPN) with 2.5 kV isolation
- 16-CH digital output (PNP) with 2.5 kV isolation
- Smart Daisy-chain Design
- On-module LED indicators
- Detachable screw terminals

Product Overview

NEIO-1812 is a palm-sized EtherCAT I/O module that comes equipped with 16 channels of digital input and 16 channels of digital output. It complies with the electrical specifications of IEC 61131-2 and is certified to meet heavy industrial-grade EMC regulations.

In addition, NEIO-1812 has passed the EtherCAT Conformance Test conducted by the EtherCAT Technology Group (ETG) to ensure excellent compatibility. Therefore, NEIO-1812 is the ideal module for your automation applications.

Specifications

Digital Input

- Number of Inputs: 16
- Input Type: PNP/NPN
- Input Voltage: 24 V_{DC}
- On-State Voltage, "1"
 - Sinking logic (PNP): 11–30 V (IEC 61131-2, type3)
 - Sourcing logic (NPN): 0–15 V
- Off-State Voltage, "0"
 - Sinking Logic (PNP): -3–5 V (IEC 61131-2, type3)
 - Sourcing Logic (NPN): 17–30 V
- Input Filter: 3 ms (±15%)
- Isolation Protection: 2.5 kV

Communication

- Protocol: EtherCAT
- Bus Interface: 2 x RJ-45
- Media: Ethernet cable (min. CAT5), shielded
- Distance Between Stations: maximum. 100m (100BASE-TX)
- Data Transfer Rate: 100 Mbps

Digital Output

- Number of Outputs: 16
- Output Type: PNP
- Output Voltage: 24 V_{DC}
- Load Type: Resistive, Capacitive, Inductive
- Max. Output Current: 500 mA/CH
- Switching Times:
 - Off to On: 100 μs
 - On to Off: 150 μs
- Isolation Protection: 2.5 kV

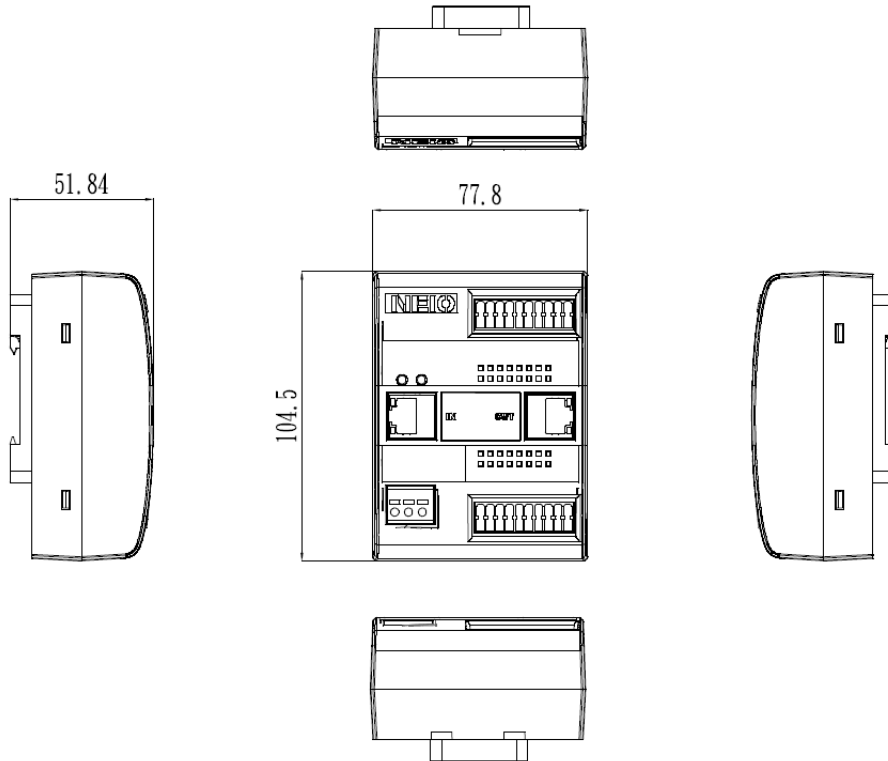
Power Requirements

- DC Input Range: 24 V_{DC} (±20%)

Mechanical Information

- Dimensions (W x H x D): 77.8 x 104.5 x 51.84 mm
- Mounting: Din-rail (35 mm mounting clip)

Dimension Drawing



Environment

- Operating Temperature: -5 °C–60 °C
- Storage Temperature: -40 °C–85 °C
- Relative humidity: 5–95% (non-condensing)
- Shock: IEC 60068-2-27
- Vibration: IEC 60068-2-6, IEC 60068-2-64
- Enclosure type rating: IP20

Certifications

- CE/FCC Class A

Ordering Information

NEIO-1812 (P/N: 10J80181202X0)

32-CH Digital Input/Output EtherCAT Slave Module