

NEIO-B1811/B1812

32-CH Digital Input/Output EtherCAT Slave Module



NEIO-B1811



NEIO-B1812

Main Features

- ♦ Finger-safe wiring cover
- ♦ Detachable screw terminals
- ♦ Rotational pin-assignment marks
- ♦ On-module LED indicators
- ♦ User-friendly wiring label
- ♦ Multiple mounting methods
- ♦ 16-CH digital input
- ♦ 16-CH digital output

Product Overview

NEIO-B1811 is a 16-CH digital input/16-CH digital output EtherCAT slave module. The voltage input of NEIO-B1811 is 24 V_{DC} which complies with IEC-61131-2 standard. Its normal output voltage is 24 V_{DC}, and it supports resistive, inductive types of loads.

NEIO-B1812 is a 16-CH digital input/16-CH digital output EtherCAT slave module. The input filter of NEIO-B1812 is 1ms, and its normal input voltage is 24 V_{DC}. Its normal output voltage is 24 V_{DC}, and it supports three types of loads-resistive, inductive and capacitive.

All of the NEIO modules are provided with high isolation protection, and verified by the EtherCAT conformance test tool. The mixed I/O module is usually used for fewer DI/O channels needed automation equipment. Mixed DI/O modules along with pure DI or DO modules provide more flexible module selection for users' applications.

Specifications

Digital Input

| Model Name | NEIO-B1811 | NEIO-B1812 |
|------------------------|--|----------------------|
| Type | PNP | PNP/NPN |
| Input Voltage | 24 V _{DC} | 24 V _{DC} |
| On-State Voltage, "1" | 15~30 V _{DC} (IEC 61131-2 type 1) 11~30 V _{DC} (IEC 61131-2 type 2/3) | 9~24 V _{DC} |
| Off-State Voltage, "0" | 0~5 V _{DC} (IEC 61131-2 type 1/2/3) | 0~8 V _{DC} |
| Input Filter | 3 ms | 1 ms |

Digital Output

| Model Name | NEIO-B1811 | NEIO-B1812 |
|---------------------|--|--|
| Type | NPN | PNP |
| Output Voltage | 24 V _{DC} | 24 V _{DC} |
| Load Type | Resistive, Inductive | Resistive, Inductive, Capacitive |
| Max. Output Current | 500 mA/ch | 500 mA/ch |
| Switching Times | Off to On: 100 μs On to Off: 150 μs | Off to On: 100 μs On to Off: 150 μs |

Communication

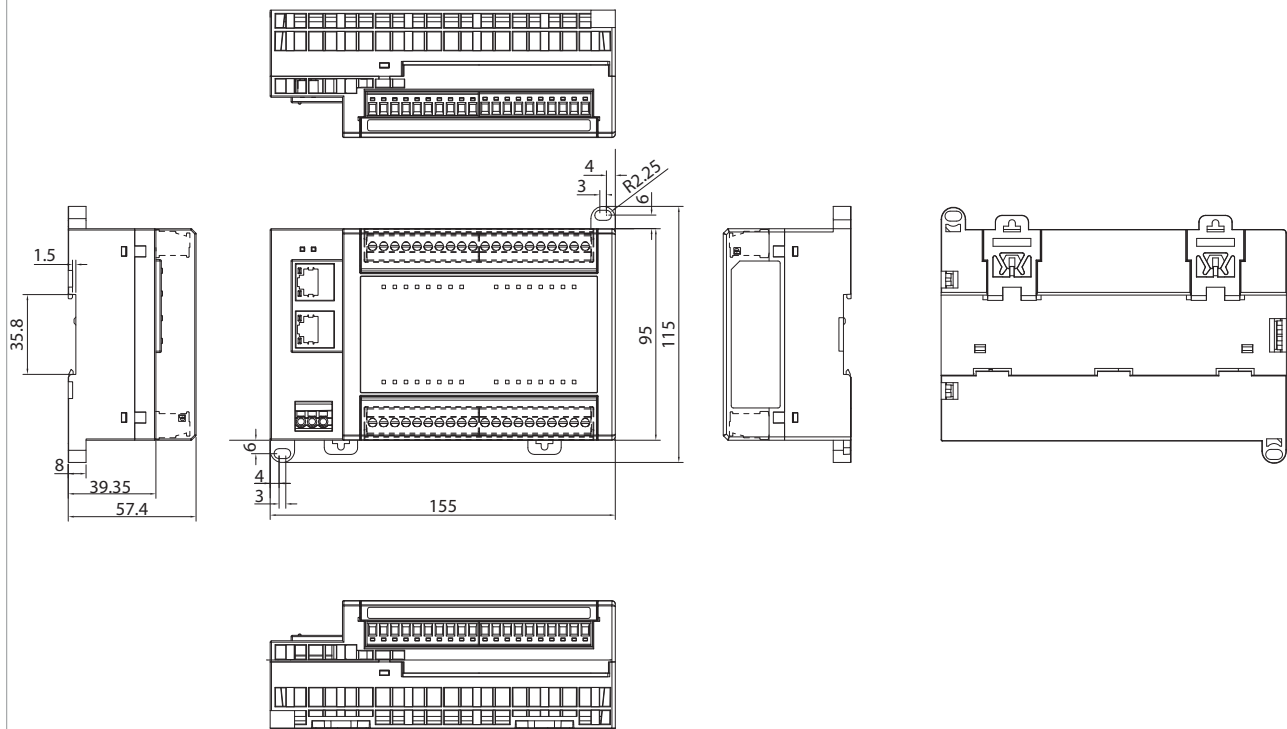
- ♦ Protocol : EtherCAT
- ♦ Bus interface: 2 x RJ-45
- ♦ Media: Ethernet cable (min. CAT5), shielded
- ♦ Distance between stations: maximum. 100m (100BASE-TX)
- ♦ Data transfer rate: 100M baud

Power Requirements

- ♦ DC input range: DC 24V ±20% with over-voltage and reversed-voltage protection

| Model Name | NEIO-B1811 | NEIO-B1812 |
|-------------------|------------|------------|
| Power Consumption | 2.2 W | 2.2 W |

Dimension Drawing



Common Section

- Electrical isolation: 2.5 kV (power contact)
- Operating temperature: 0°C~55°C
- Storage temperature: -40°C~85°C
- Relative humidity: 5~95%, non-condensation, non-operating
- Shock: IEC 60068-2-27
- Vibration: IEC 60068-2-6, IEC 60068-2-64
- Enclosure type rating: IP20
- Mounting type: din-rail (35mm), wall-mount
- Dimensions (mm): 155 x 115 x 57.4 (W x H x D)

Certifications

- CE
- FCC Class A

Ordering Information

- ♦ **NEIO-B1811 (P/N: 10J80181100X0)**
32-CH digital input/output EtherCAT slave module
- ♦ **NEIO-B1812 (P/N: 10J80181200X0)**
32-CH digital input/output EtherCAT slave module
- ♦ **AC to DC din rail power supply (P/N: 7440060001X00)**
60 W 24V/2.5A for NISE

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