

NA-4010 and NA-4020/4021 Series

Ethernet and serial network adaptors

NA-4010 (Ethernet)



NA-4020 (RS-485)



NA-4021 (RS-232)



NA-4010 Specifications

LAN

Ethernet: 1 10/100 Mbps RJ45 port

Protocols: Modbus/TCP, HTTP, BOOTP

IP Settings: ARP, BOOTP, static IP

Programming Library: MXIO DLL library for Windows supporting Visual Basic, Visual C++, Borland C++ Builder, .NET, Linux

Number of I/O Modules Supported: Max. of 32

Power Requirements

Power Input: 11 to 28.8 VDC, 24 VDC typical

Power Consumption: 60 mA @ 24 VDC

Current for I/O Modules: Max. 1.5 A @ 5 VDC

MTBF (mean time before failures)

Time: 4,739,300 hrs

Database: Telcordia (Bellcore)

NA-4020/4021 Specifications

Serial Communication Parameters

Parity: None, Even, Odd

Data Bits: 7, 8

Stop Bits: 1, 2

Baudrate: 1200 to 115200 bps

Signals:

- NA-4020: Data+, Data-, Gnd, DIR (5-contact terminal block)
- NA-4021: TxD, RxD, Gnd (9-pin D-Sub female)

Software Features

Protocols: Modbus/RTU, Modbus/ASCII

Modbus Address: 00 to 99 (set by rotary switches)

Programming Library: MXIO DLL library for Windows; Supports Visual Basic, Visual C++, Borland C++ Builder, .net, VB/VC.NET, Linux

Number of I/O Modules Supported: Max. of 32

Power Requirements

Power Input: 11 to 28.8 VDC, 24 VDC typical

Power Consumption: 70 mA @ 24 VDC

Current for I/O Modules: Max. 1.5 A @ 5 VDC

MTBF (mean time between failures)

NA-4020 Time: 4,694,800 hrs

NA-4021 Time: 5,208,300 hrs

Database: Telcordia (Bellcore)

: NA-4010 and NA-4020/4021 Common Specifications

Field Power

Rated Voltage: 11 to 28.8 VDC, 24 VDC typical

Current in Field Power Contact: Max. 10 A

Isolation

System Power to I/O Driver: Optical isolation

Physical Characteristics

Dimensions: 45 x 99 x 70 mm (1.77 x 3.90 x 2.76 in)

Weight: 150 g

Mounting: DIN rail

Environmental Limits

Operating Temperature: -10 to 60°C (14 to 140°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Safety: UL 508

EMI: 61000-3-2; EN 61000-3-3; EN 61000-6-4; FCC Part 15, Subpart B, Class A

EMS: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61000-6-2

Vibration: IEC-68-2-6 (2 g's during operation)

Warranty

Warranty Period: 2 years

Details: See www.moxa.com/warranty

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Remote I/O > NA-4010 and NA-4020/4021 Series

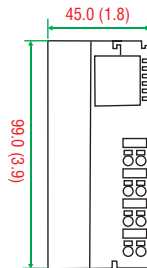
Dimensions

Unit: mm (inch)

I/O Network Adaptor

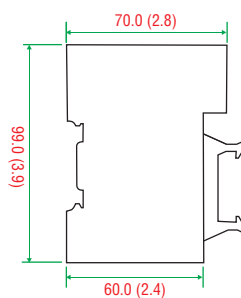


Side View

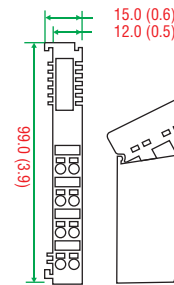


Front View

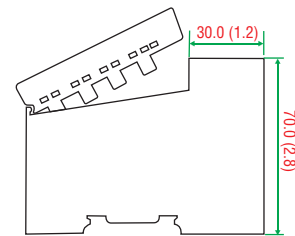
I/O Module



Side View



Front View



Removable View

: Ordering Information

Step 1: Select a network adaptor module

NA-4000 series



Step 2: Select I/O modules

M-1000/2000/3000/4000/6000 series



Step 3: Select power modules (optional)

M-7000 series

Available Models

NA-4010: Modular Ethernet remote I/O adaptor with RJ45 connector, up to 32 I/O modules, -10 to 60°C operating temperature

NA-4020: Modular RS-485 remote I/O adaptor with terminal block, up to 32 I/O modules, -10 to 60°C operating temperature

NA-4021: Modular RS-232 remote I/O adaptor with DB9 female connector, up to 32 I/O modules, -10 to 60°C operating temperature

Note: The NA-4010 NA-4020/4021 network adaptors can be expanded by adding up to 32 I/O modules.

Package Checklist

- NA-4000 Series Device
- I/O modules ordered
- Power modules ordered
- Documentation and software CD