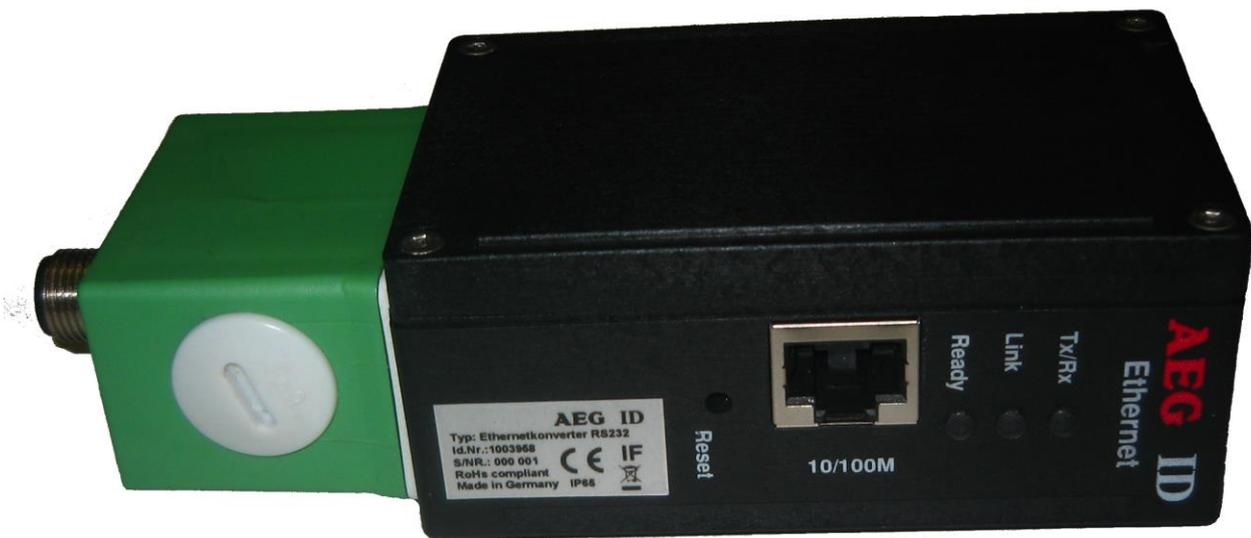


Ethernet Converter

Quick Installation Guide for Ethernet / RS232

NPort 5110



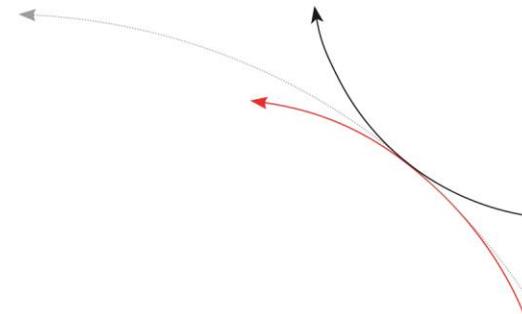
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1 Overview

Ethernet Converter "NPort 5110" series device servers are compact, palm-sized data communication devices that allow you to control RS232 serial devices over a TCP/IP-based Ethernet.

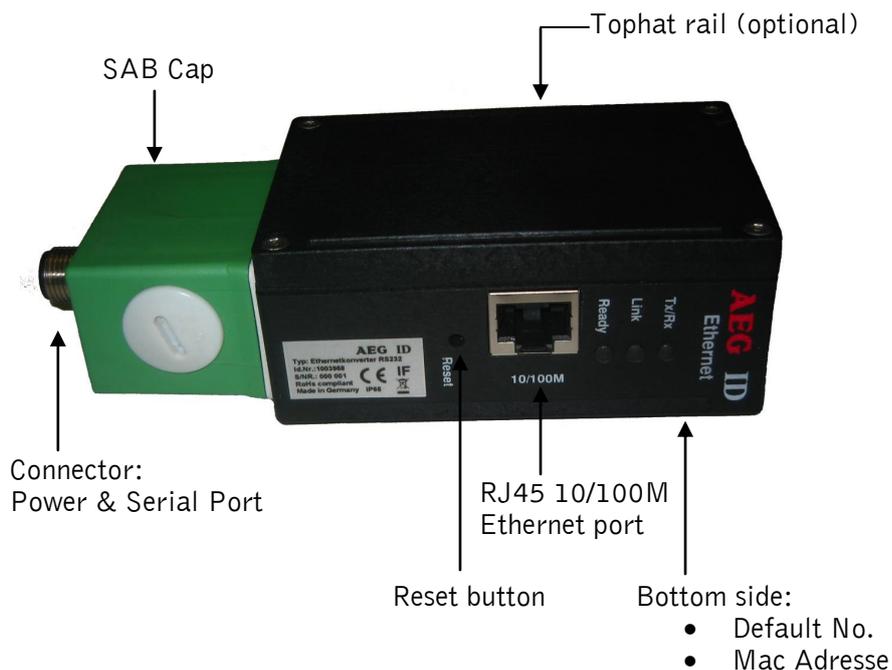
2 Package Checklist

Before installing the Ethernet Converter NPort 5110 series device server, verify that the package contains the following items:

- Ethernet NPort 5110 series 1-port serial device server
- Documentation and software CD
- Quick Installation Guide

3 Hardware Introduction

As shown in the following figures, Ethernet converter has one lumberg male connector for power and RS232 serial data. Connector Typ: Lumberg RSF 5B



Reset Button

Press the Reset button continuously for 5 sec. to load factory defaults: Use a pointed object, such as a straightened paper clip or toothpick, to press the reset button. This will cause the Ready LED to blink on and off. The factory defaults will be loaded once the Ready LED stops blinking (after about 5 seconds) At this point, you should release the reset button.

Factory default settings include an active password protection. The factory default password is "moxa".

LED Indicators

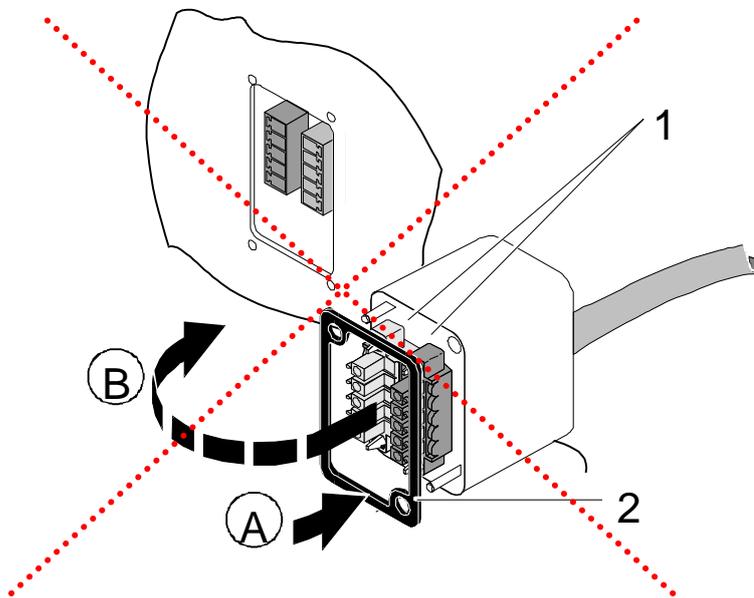
The Ethernet converter has three LED indicators, which are described in the following table.

LED Name	LED Color	LED Function
Ready	Red	Steady on: Power is on and Ethernet converter is booting up. Blinking: Indicates an IP conflict, or DHCP or BOOTP server is not responding properly.
	Green	Steady on: Power is on and Ethernet converter functioning normally. Blinking: The Ethernet converter has been located by Administrator's Location function.
	Off	Power is off, or power error condition exists.
Link	Orange	10 Mbps Ethernet connection.
	Green	100 Mbps Ethernet connection.
	Off	Ethernet cable is disconnected, or has a short.
Tx/Rx	Orange	Serial port is receiving data.
	Green	Serial port is transmitting data.
	Off	No data is being transmitted or received through the serial port

Hardware Installation Information

SAB Cap

Attention! Do not dicconnect the green SAB Cap



Connecting for power supply and serial port:

The reader has to be supplied with 12 to 30V DC. The maximum output power of the power supply has to be 1.2 Watt. Be sure that you use the right polarity.

Connector Typ: Lumberg 0976 PFC 101

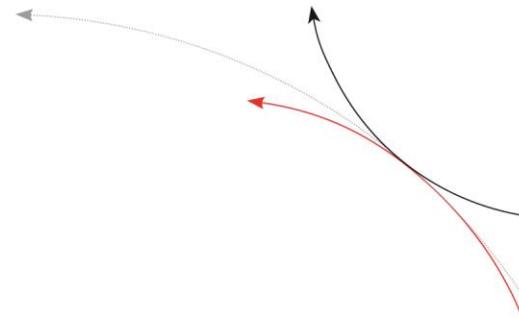
Power supply: Pin1 = 12 ...30 Volt

Pin4 = GND

Data interface: Pin2 = RXD (readers data input)

Pin3 =TXD (readers data output)

Pin5 = GND



Attention!

The minimum voltage at the readers input mustn't be lower than 12V.
The maximum length of the serial RS232 cable is 15m.

Step 1: After removing the Ethernet Converter "NPort5110" device server from the box, the first thing you should do is connect the power

Step 2: Connect the Ethernet Nport 5110 device server to a network. Use a standard straight-through Ethernet cable to connect to a hub or switch. When setting up or testing the Ethernet NPort5110 device server, you might find it convenient to connect directly to your computer's Ethernet port. In this case, use a cross-over Ethernet cable.

Step 3: Connect the Ethernet "NPort5110" device server's serial port to a serial device.

Step 4: Placement options tophat rail

Software Installation Information:

To install NPort Administration Suite, insert NPort Document & Software CD into your computer's CD-Rom driver. Once the NPort Installation CD windows opens, click on the Installation button, and then follow the instructions on the screen.

To view detailed information about NPort Administration Suite, click on the Document button, and then select "NPort 5100 Series User's Guide" to open the pdf version of the user's guide.

Pin Assignment:

Ethernet Port Pinouts

Pin Number	Ethernet
1	Tx +
2	Tx -
3	RX +
6	Rx -

Specifications:

Power Requirements	
Power Input	Vcc: 12 to 30Volt DC
Power Consumption	Max. 130mA@ 12V, 75mA@ 24V
Operating Temperature	0 to 55°C (32 to 131°F) for standard model
Operating Humidity	5 to 95% RH
Dimensions	130mm x 60mm x 40mm 130mm x 80mm x 40mm (with tophat rail)
Serial Line Protection	15KV ESD for serial port
Magnetic Isolation	1.5KV for Ethernet
Power Line Protection	Level 2 Burst (EFT), EN61000-4-4 Level 2 Surge, EN61000-4-5
Password	moxa

Revisions

22.01.13 Revision 00: Initial edition (MM)

02.05.18 Revision 01 Password: moxa