

# MOXA

## NPort 5110

### Quick Installation Guide

First Edition, December 2004

## 1. Overview

NPort 5110 is a compact, palm-sized data communication device that allows you to control RS-232 serial devices over a TCP/IP-based Ethernet.

## 2. Package Checklist

Before installing NPort 5110, verify that the package contains the following items:

- 1 NPort 5100 1-port Serial Device Server
- 4 stick-on pads
- Documentation & Software CD
- NPort 5110 Quick Installation Guide
- Product Warranty

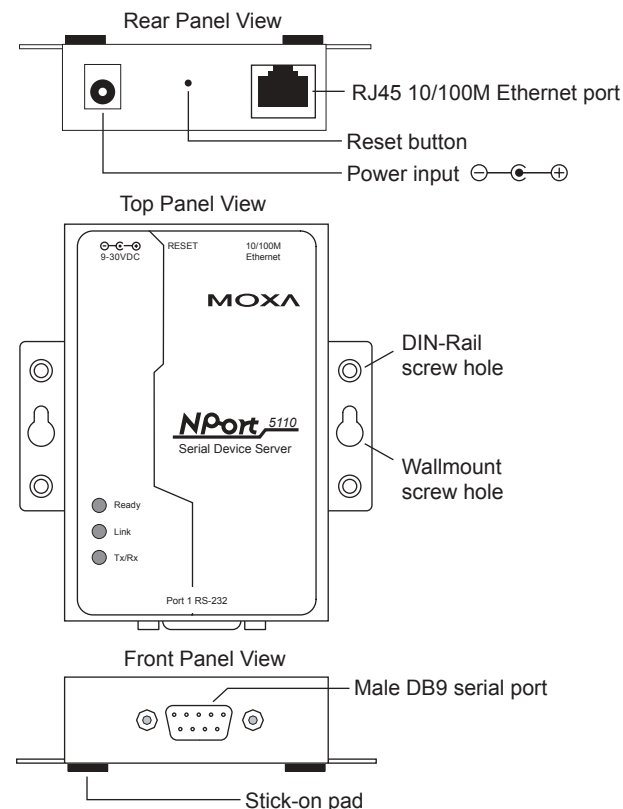
### Optional Accessory

- DK-35A : DIN-Rail Mounting Kit (35 mm)

Notify your sales representative if any of the above items is missing or damaged.

## 3. Hardware Introduction

As shown in the following figures, NPort 5110 has one male DB9 port for transmitting RS-232 serial data.



**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.

**LED Indicators**—NPort 5110's top panel has three LED indicators, as described in the following table.

LED Name	LED Color	LED Function
Ready	red	Steady on: Power is on and NPort is booting up. Blinking: Indicates an IP conflict, or DHCP or BOOTP server is not responding properly.
	green	Steady on: Power is on and NPort is functioning normally. Blinking: The NPort has been located by NPort 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.

## 4. Hardware Installation Information

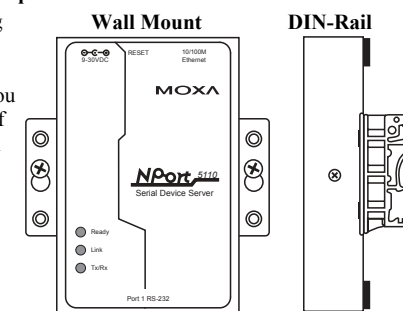
**STEP 1:** After removing NPort 5110 from the box, the first thing you should do is connect the power adaptor.

**STEP 2:** Connect NPort 5110 to a network. Use a standard straight-through Ethernet cable to connect to a Hub or Switch. When setting up or testing NPort 5110, 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 NPort 5110's serial port to a serial device.

### STEP 4: Placement Options

In addition to placing NPort 5110 on a desktop or other horizontal surface, you may also make use of the DIN-Rail or Wall Mount options, as illustrated here.



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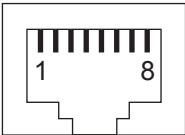
5. Software Installation Information

To install **NPort Administration Suite**, insert the **NPort Document & Software CD** into your computer’s CD-ROM drive. Once the **NPort Installation CD** window 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 **Documents** button, and then select “NPort 5110 Series User’s Guide” to open the pdf version of the user’s guide.

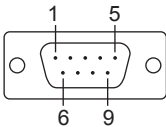
6. Pin Assignments

Ethernet Port Pinouts



Pin Number	RS-232 Signals
1	Tx+
2	Tx-
3	Rx+
6	Rx-

Male DB9 (RS-232) Port Pinouts



Pin Number	RS-232 Signals
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	---

7. Environmental Specifications

Power Requirements	9 to 30 VDC, 200 mA (9V), 165 mA (12V)
Operating Temperature	0 to 55°C (32 to 131°F)
Operating Humidity	5 to 95% RH
Dimensions (W × D × H)	75.2 × 80 × 22 mm ←including ears (2.96 × 1.97 × 0.87 in) 52 × 80 × 22 mm ←without ears (2.05 × 1.97 × 0.89 in)
Surge Protection	15 KV ESD for serial port
Magnetic Isolation	1.5 KV for Ethernet
Power Line Protection	4 KV Burst (EFT), EN61000-4-4 2 KV Surge, EN61000-4-5
Regulatory Approvals	FCC Class B, CE Class B, CUL, TÜV

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