

¡Soluciones!



Para el ahorro y control de la energía eléctrica



Comunicación Inalámbrica
y Conversión de Señal

- Comunicación Inalámbrica.
- Conversión de Señales.
- Control en RED.

Distribuidor autorizado:



MOXA®

NPort 5110/5130/5150 Series

Quick Installation Guide

First Edition, June 2006

1. Overview

NPort 5100 series device servers are compact, palm-sized data communication devices that allow you to control RS-232 (NPort 5110), RS-422/485 (NPort 5130), and RS-232/422/485 (NPort 5150) serial devices over a TCP/IP-based Ethernet.

Note:

“-T” indicates an extended temperature model.

2. Package Checklist

Before installing the NPort 5100 series device server, verify that the package contains the following items:

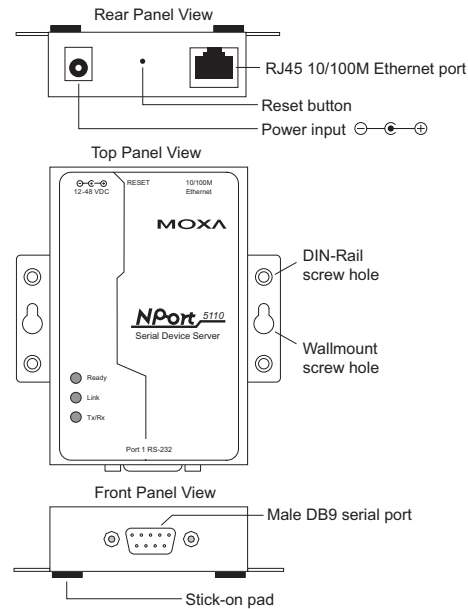
- 1 NPort 5100 series 1-port serial device server
 - 4 stick-on pads
 - Document & Software CD
 - NPort 5100 series Quick Installation Guide
 - Product Warranty Statement
- Optional Accessory*
- DK-35A : DIN-Rail Mounting Kit (35 mm)

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

3. Hardware Introduction

As shown in the following figures, NPort 5100 series device servers have one male DB9 port for transmitting RS-232 (NPort 5110), RS-422/485 (NPort 5130), or RS-232/422/485 (NPort 5150) serial data.

P/N: 1802051000000



NOTE: NPort 5110, NPort 5130, and NPort 5150 have the same form factor.

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 5100’s top panel 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 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

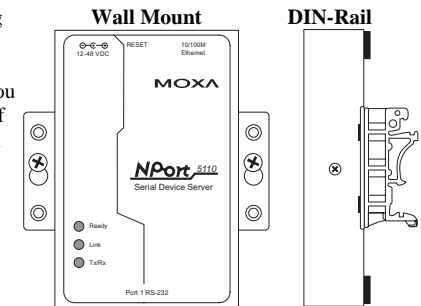
STEP 1: After removing the NPort 5100 series device server from the box, the first thing you should do is connect the power adaptor.

STEP 2: Connect the NPort 5100 series 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 NPort 5100 series 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 NPort 5100 series device server’s serial port to a serial device.

STEP 4: Placement Options

In addition to placing NPort 5100 on a desktop or other horizontal surface, you may also make use of the DIN-Rail or Wall Mount options, as illustrated here.



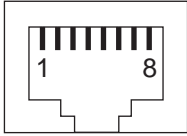
5. Software Installation Information

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.

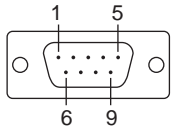
6. Pin Assignments

Ethernet Port Pinouts



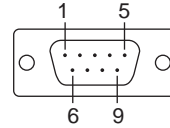
Pin Number	RS-232 Signals
1	Tx+
2	Tx-
3	Rx+
6	Rx-

Male DB9 (RS-232) Port Pinouts of NPort 5110



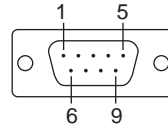
Pin Number	RS-232 Signals
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	---

Male DB9 (RS-422/485) Port Pinouts of NPort 5130



Pin Number	RS-422/485 (4W)	RS-485 (2W)
1	TXD-(A)	---
2	TXD+(B)	---
3	RXD+(B)	Data+(B)
4	RXD-(A)	Data-(A)
5	GND	GND
6	---	---
7	---	---
8	---	---
9	---	---

Male DB9 (RS-232/422/485) Port Pinouts of NPort 5150



Pin Number	RS-232	RS-422/485 (4W)	RS-485 (2W)
1	DCD	TXD-(A)	---
2	RxD	TXD+(B)	---
3	TxD	RXD+(B)	Data+(B)
4	DTR	RXD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	---	---
7	RTS	---	---
8	CTS	---	---
9	---	---	---

7. Environmental Specifications

Power Requirements

Power Input	12 to 48 VDC
Power Consumption	NPort 5110: 128.7 mA@12V, 72 mA@24V NPort 5130: 200 mA@12V, 106 mA@24V NPort 5150: 200 mA@12V, 106 mA@24V

Operating Temperature 0 to 55°C (32 to 131°F), for standard models
-40 to 75°C (-40 to 167°F), for -T models

Operating Humidity 5 to 95% RH

Dimensions (W × D × H) 75.2 × 80 × 22 mm ← including ears
(2.96 × 3.15 × 0.87 in)
52 × 80 × 22 mm ← without ears
(2.05 × 3.15 × 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 A, CE Class A, CUL, TÜV





Soporte en Ingeniería y Equipos, S.A de C.V

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Calidad de la Energía Eléctrica y Monitoreo de Parámetros Eléctricos



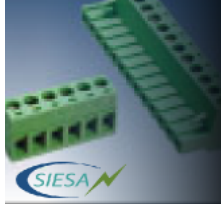
- Bancos de capacitores.
- Filtros de Armónicas.
- Estudios de calidad de Energía.
- Medidores de parametros eléctricos.
- Protección para corrientes Transitorias.

Comunicación Inalámbrica y Conversión de Señal



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PCB's y Conectores Industriales



- Conectores.
- PCB's.
- Clemas de paso.

Integración y Tableristas



- Clemas.
- Fuentes de Poder.
- Relés.
- Botonería.
- Contactores.
- Guardamotores.

Mantenimiento



- A bancos de capacitores.
- A subestaciones eléctricas..
- A plantas de emergencia.