

NPort 6250 Series Quick Installation Guide

Fourth Edition, January 2013

1. Overview

The NPort 6250 series of secure serial device servers provide reliable serial-to-Ethernet connectivity for a wide range of serial devices. The NPort 6250 supports TCP Server, TCP Client, UDP, and Pair-Connection operation modes to ensure the compatibility of network software. In addition, the NPort 6250 also supports Secure TCP Server, Secure TCP Client, Secure Pair-Connection, and Secure Real COM modes for security critical applications such as banking, telecom, access control and remote site management.

2. Package Checklist

Before Installing NPort 6250 secure device server, verify that the package contains the following items:

- 1 NPort 6250
- · Document & Software CD
- Quick Installation Guide (this guide)
- Power Adaptor
- Product Warranty Statement
- · 2 wall mount ears

Optional Accessories

- DK-35A: DIN-Rail Mounting Kit (35 mm)
- DIN-Rail Power Supply
- CBL-RJ45M9-150: 8-pin RJ45 to male DB9 cable
- CBL-RJ45M25-150: 8-pin RJ45 to male DB25 cable

NOTE Please notify your sales representative if any of the above items are missing or damaged.

3. Hardware Introduction

The NPort 6250 series has 3 models. A brief description of each model is given below:

NPort 6250

Two RS-232/422/485 serial ports and one 10/100Tx Ethernet port

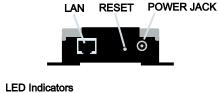
NPort 6250-S-SC

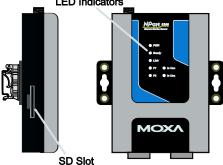
Two RS-232/422/485 serial ports and one 100Fx single mode fiber Ethernet port $\,$

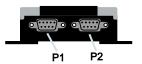
P/N: 1802066500013

NPort 6250-M-SC

Two RS-232/422/485 ports and one 100Fx multi mode fiber Ethernet port



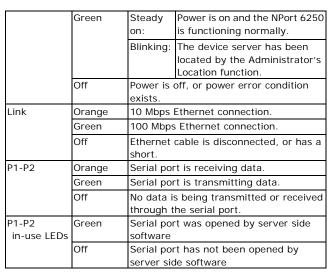




Reset Button—Press the Reset button continuously for 5 sec to load factory defaults: Use a pointed object, such as a straightened paper clip or toothpick, to press the reset button. This will cause the Ready LED to blink on and off. The factory defaults will be loaded once the Ready LED stops blinking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

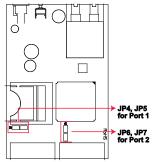
LED Indicators

LED Name	LED Color	LED Function	
PWR	Red	Power is	being supplied to the power
		input.	
Ready	Red	Steady	Power is on and the NPort 6250
		on:	is booting up.
		Blinking:	Indicates an IP conflict, or, the
			DHCP or BOOTP server did not
			respond properly or a relay
			output occurred. Check the
			relay output first. If after
			resolving the relay output the
			RDY LED is still blinking, then
			there is an IP conflict, or the
			DHCP or BOOTP server did not
			respond properly.



Adjustable pull high/low resistor for RS-422/485

(150 K(or 1 K()



Jumpers are used to set the pull high/low resistors. The default is 150 K Ω . Short the jumpers to set this value to 1 K Ω . Do not use the K Ω setting with RS-232 mode, since doing so will degrade the RS-232 signals and shorten the communication distance.

4. Hardware Installation Procedure

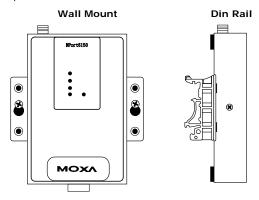
STEP 1: Connect the 12-48 VDC power adaptor to the NPort 6250 and then plug the power adaptor into a DC outlet.

STEP 2: For first-time configuration, use a cross-over Ethernet cable to connect the NPort 6250 directly to your computer's Ethernet cable. For connecting to a network, use a standard straight-through Ethernet cable to connect to a hub or switch.

STEP 3: Connect the NPort 6250's serial port(s) to serial device(s).

Placement Options

The NPort 6250 can be placed flat on a desktop or other horizontal surface. In addition, you may use the DIN-Rail or Wall Mount options, as illustrated below.



5. Software Installation Information

The Document & Software CD contains the User's Manual, NPort Search Utility, and the PComm Lite Suite. Insert the CD and follow the on-screen instructions. Please refer to the User's Manual for additional details on using the NPort Search Utility and PComm Lite.

6. Pin Assignments and Cable Wiring

RS-232/422/485 Pin Assignment (male DB9)

Pin	RS-232	RS-422 4-wire RS-485	2-wire RS-485
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		
Q			



7. Specifications

LAN		
Ethernet:	NPort 6250: 10/100 Mbps,	
	RJ45	
	NPort 6250-S-SC: Single-mode fiber	
	NPort 6250-M-SC: Multi-mode fiber	
Protection:	Built-in 1.5 KV magnetic isolation	
Serial		
No. of ports:	2	
Interface:	RS-232/422/485 (male DB9)	
Serial Communication Parameters		
Parity:	None, Even, Odd, Space, Mark	
Data bits:	5, 6, 7, 8	
Stop bit(s):	1, 1.5, 2	
Flow control:	RTS/CTS, XON/XOFF, DTR/DSR	
Speed:	50 bps to 921.6 Kbps	
Console Port:	RS-232 (please see the User's Manual for	
	detailed operating instructions)	
Memory:	One SD socket	

Software Features			
Protocols:	ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP, HPPTS, SSL, PPPOE		
Utilities:	Windows utility for Windows 98/ME/NT/2000/XP/2003/Vista/2008/XP x64/2003 x64/Vista x64/2008 x64		
Security Protocols:	DES/3DES/AES		
OS Driver Support	Real COM drivers: Windows 95/98/ME/NT/2000/XP/2003/Vista/8 2008/XP x64/2003 x64/Vista x64/2008 x64/2012 x64 Real TTY drivers: Linux 2.4, 2.6, and 3.x Fixed TTY drivers: SCO Unix, SCO OpenServer 5, OpenServer 6, UnixWare 7, UnixWare 2.1, SVR4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD 5, FreeBSD 6		
Configuration:	Web Console, Serial/Telnet Console, Windows Utility.		
Power Requirement	Power Requirements		
Power input:	12 to 48 VDC		
Mechanical Specifications			
Material: \	Aluminum (1mm)		
Environment			
Operating Temperature:	0-55°C (32 to 131°F), 5 to 95% RH		

Storage	-20 to 85°C (-4 to 185°F), 5 to 95%RH			
Temperature:				
Regulatory Approvals				
EMC:	FCC Class A, CE Class A			
Safety:	UL, CUL, TUV			



www.moxa.com/support

The Americas: +1-714-528-6777 (toll-free: 1-888-669-2872)

Europe: +49-89-3 70 03 99-0 Asia-Pacific: +886-2-8919-1230

China: +86-21-5258-9955 (toll-free: 800-820-5036)

© 2012 Moxa Inc., All Rights Reserved