

NPort® 6150

1-port RS-232/422/485 secure terminal server



- > Simple solution for connecting serial devices to a network
- > Secure operation modes for Real COM, TCP Server, TCP Client, Pair Connection, Terminal, and Reverse Terminal
- > Any Baudrate supported with high precision
- > Automatic RS-485 data direction control with Moxa's patented ADDC®
- > Enhanced remote configuration with https and SSH
- > Port buffers for storing serial data when the Ethernet is off-line

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.



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Terminal Servers > NPort® 6150

Overview

The NPort® 6150 is a 1-port device server that uses the SSL and SSH protocols to transmit encrypted serial data over Ethernet. The NPort®

6150's 3-in-1 serial port supports RS-232, RS-422, and RS-485, with the interface selected from an easy-to-access configuration menu.

Secure Data Transmission

For many applications, guaranteeing secure data transmission is an important concern when connecting serial devices to a network. In answer to this concern, the NPort® 6150 supports the SSL and SSH protocols, which work by encrypting data before sending it over the

network. With the NPort® 6150, users can rest assured that serial data is transmitted securely over both private and public networks.

Specifications

Ethernet Interface

- Number of Ports:** 1
- Speed:** 10/100 Mbps, auto MDI/MDIX
- Connector:** 8-pin RJ45
- Magnetic Isolation Protection:** 1.5 KV built-in

Serial Interface

- Number of Ports:** 1
- Serial Standards:** RS-232/422/485
- Connector:** DB9 male
- ESD Protection:** 15 KV for all signals
- RS-485 Data Direction Control:** ADDC® (Automatic Data Direction Control)
- Console Port:** Serial port doubles as RS-232 console port

Serial Communication Parameters

- Data Bits:** 5, 6, 7, 8
- Stop Bits:** 1, 1.5, 2
- Parity:** None, Even, Odd, Space, Mark
- Flow Control:** RTS/CTS, DTR/DSR, XON/XOFF
- Baudrate:** 50 bps to 921.6 Kbps

Serial Signals

- RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- RS-422:** Tx+, Tx-, Rx+, Rx-, GND
- RS-485-4w:** Tx+, Tx-, Rx+, Rx-, GND
- RS-485-2w:** Data+, Data-, GND

Software

- Network Protocols:** ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP
- Security Protocols:** DES, 3DES, AES, SSH, SSL, HTTPS, RADIUS, PAP, CHAP, TACACS+
- Configuration Options:** Web Console, Serial Console, Telnet Console, Windows Search Utility
- Driver Support:** Windows Real COM drivers (for Windows 95, 98, ME, NT, 2000, XP, 2003, Vista, XP x64, 2003 x64, Vista x64), Linux Real TTY driver, Fixed TTY drivers (for SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i)

Physical Characteristics

- Housing:** Aluminum sheet metal (1 mm)
- Weight:** 700 g
- Dimensions:**
 - Without ears: 67 x 100.4 x 28 mm (2.64 x 3.95 x 1.1 in)
 - With ears: 90 x 100.4 x 28 mm (3.54 x 3.95 x 1.1 in)

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F)
Operating Humidity: 5 to 95% RH
Storage Temperature: -20 to 85°C (-4 to 185°F)
Surge Protection: 15 KV ESD protection embedded

Power Requirements

Input Voltage: 12 to 48 VDC
Power Consumption: 285 mA @ 12 V (max.)
Power Line Protection: 1 KV burst (EN61000-4-4: EFT/B), 0.5 KV surge (EN61000-4-5)

Regulatory Approvals

EMC: CE (EN55022 Class A, EN55024), FCC Part 15 Subpart B Class A

Safety: UL (UL60950-1), CUL, TÜV (EN60950-1)

EN61000-4-2 (ESD): 4 KV contact

EN61000-4-4 (EFT): 1 KV power

EN61000-4-5 (Surge): 2 KV power

Reliability

Alert Tools: Built-in buzzer and RTC (real-time clock)

Automatic Reboot Trigger: Built-in WDT (watchdog timer)

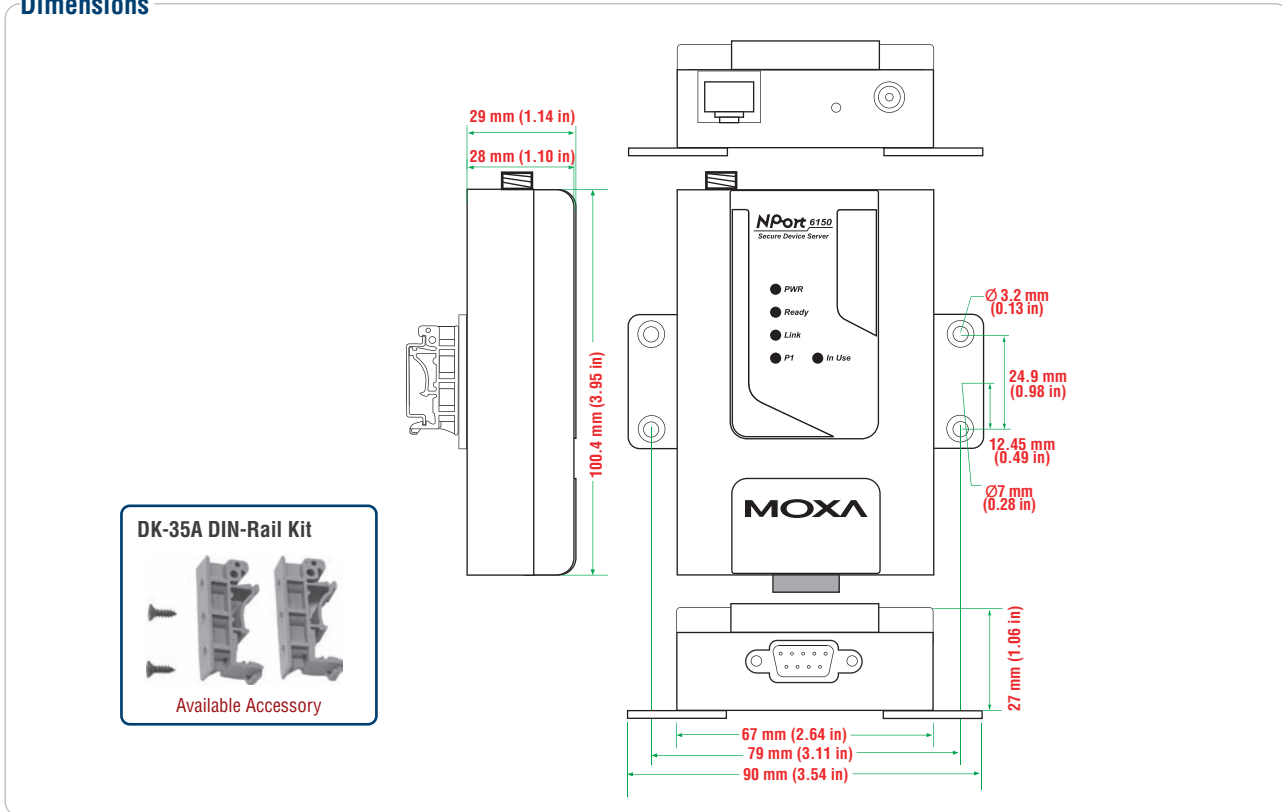
MTBF (meantime between failures): 231709 hrs

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

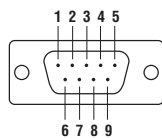


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Pin Assignment

DB9 male connector



PIN	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	-	-

Ordering Information

Available Models

NPort@ 6150: 1-port RS-232/422/485 secure device server

Optional Accessories (can be purchased separately)

DK-35A: Mounting Kit for 35-mm DIN-Rail

NP21101: DB25 male to DB9 female RS-232 cable, 30 cm

Package Checklist

- NPort@ 6150 device server
- Power Adaptor
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card