

# NPort 5600-DT Series

### 8-port RS-232/422/485 serial device servers



#### **Features and Benefits**

- 8 serial ports supporting RS-232/422/485
- · Compact desktop design
- 10/100M auto-sensing Ethernet
- · Easy IP address configuration with LCD panel
- · Configure by Telnet, web browser, or Windows utility
- · Socket modes: TCP server, TCP client, UDP, Real COM
- · SNMP MIB-II for network management

#### **Certifications**







#### Introduction

NPort 5600-8-DT device servers can conveniently and transparently connect 8 serial devices to an Ethernet network, allowing you to network your existing serial devices with only basic configuration. You can both centralize management of your serial devices and distribute management hosts over the network. Since the NPort 5600-8-DT device servers have a smaller form factor compared to our 19-inch models, they are a great choice for applications that need additional serial ports, but for which mounting rails are not available.

#### **Convenient Design for RS-485 Applications**

The NPort 5650-8-DT device servers support selectable 1 kilo-ohm and 150 kilo-ohms pull high/low resistors and a 120-ohm terminator. In some critical environments, termination resistors may be needed to prevent the reflection of serial signals. When using termination resistors, it is also important to set the pull high/low resistors correctly so that the electrical signal is not corrupted. Since no set of resistor values is universally compatible with all environments, NPort 5600-8-DT device servers use DIP switches to allow users to adjust termination and pull high/low resistor values manually for each serial port.

#### **Convenient Power Inputs**

The NPort 5650-8-DT device servers support both power terminal blocks and power jacks for ease of use and greater flexibility. Users can connect the terminal block directly to a DC power source, or use the power jack to connect to an AC circuit through an adapter.

#### **LED Indicators to Ease Your Maintenance Tasks**

The System LED, Serial Tx/Rx LEDs, and Ethernet LEDs (located on the RJ45 connector) provide a great tool for basic maintenance tasks and help engineers analyze problems in the field. The NPort 5600's LEDs not only indicate current system and network status, but also help field engineers monitor the status of attached serial devices.

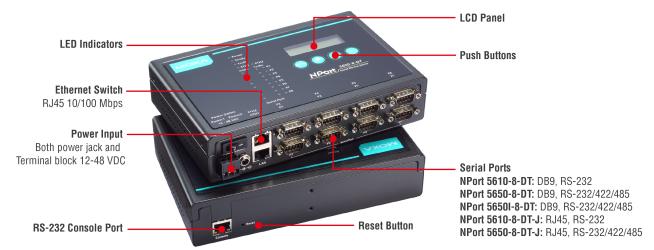
### **Two Ethernet Ports for Convenient Cascade Wiring**

The NPort 5600-8-DT device servers come with two Ethernet ports that can be used as Ethernet switch ports. Connect one port to the network or server, and the other port to another Ethernet device. The dual Ethernet ports eliminate the need to connect each device to a separate Ethernet switch, reducing wiring costs.



# **Appearance**





# **Specifications**

Eth	erne	t Int	erfa	ce

10/100BaseT(X) Ports (RJ45 connector)	2
Magnetic Isolation Protection	1.5 kV (built-in)
Ethernet Software Features	
Configuration Options	Serial Console, Telnet Console, Web Console (HTTP/HTTPS), Windows Utility
Management	ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, Rtelnet, SMTP, SNMPv1/v2c, TCP/IP, Telnet, UDP
Filter	IGMP v1/v2
MIB	RFC1213, RFC1317
Time Management	SNTP
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Real TTY Drivers	Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.x
Fixed TTY Drivers	SCO UNIX, SCO OpenServer, SCO UnixWare 7, Sun Solaris 10, QNX 4.25, QNX 6.x, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X
Android API	Android 3.1.x and later
Serial Interface	
Connector	8-pin RJ45: NPort 5610-8-DT-J/5650-8-DT-J DB9 male: NPort 5610-8-DT models/NPort 5650-8-DT models/NPort 5650I-8-DT models
No. of Ports	8
Serial Standards	NPort 5610-8-DT Series: RS-232 NPort 5650-8-DT Series: RS-232/422/485
Baudrate	Supports standard baudrates (unit=bps): 50, 75, 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.6k
Data Bits	5, 6, 7, 8



Stop Bits

1, 1.5, 2



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Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS, DTR/DSR, XON/XOFF
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
RS-485 Data Direction Control	ADDC® (automatic data direction control)
Isolation	-I models: 2 kV
Surge	0.5 kV
Console Port	RS-232 (TxD, RxD, GND), 3-pin (19200, n, 8, 1)
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
Power Parameters	
Input Current	NPort 5610-8-DT/NPort 5610-8-DT-J/NPort 5610-8-DT-T: 611 mA @ 12 VDC NPort 5650-8-DT/NPort 5650-8-DT-J/NPort 5650-8-DT-T: 615 mA @ 12 VDC NPort 5650I-8-DT/NPort 5650I-8-DT-T: 1066 mA @ 12 VDC
No. of Power Inputs	2
Input Voltage	12 to 48 VDC
Reverse Polarity Protection	Supported
Reliability	
Automatic Reboot Trigger	Built-in WDT
Alert Tools	Built-in buzzer and RTC (real-time clock)
Physical Characteristics	
Housing	Metal Metal
Dimensions (with ears)	229 x 46 x 125 mm (9.01 x 1.81 x 4.92 in)
Dimensions (without ears)	197 x 44 x 125 mm (7.76 x 1.73 x 4.92 in)
Dimensions (with DIN-rail kit on bottom panel)	197 x 53 x 125 mm (7.76 x 2.09 x 4.92 in)
Weight	NPort 5610-8-DT: 1,570 g (3.46 lb)  NPort 5610-8-DT-J: 1,520 g (3.35 lb)  NPort 5610-8-DT-T: 1,320 g (2.91 lb)  NPort 5650-8-DT: 1,590 g (3.51 lb)  NPort 5650-8-DT-J: 1,540 g (3.40 lb)  NPort 5650-8-DT-T: 1,340 g (2.95 lb)  NPort 5650l-8-DT: 1,660 g (3.66 lb)  NPort 5650l-8-DT-T: 1,410 g (3.11 lb)
Installation	Desktop, DIN-rail mounting (with optional kit), Wall mounting (with optional kit)
Interactive Interface	LCD panel display Push buttons for configuration





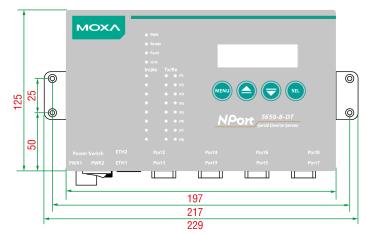
Environmental Limits		
Operating Temperature	Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)	
Ambient Relative Humidity	5 to 95% (non-condensing)	
Standards and Certifications		
EMC	EN 55032/35	
ЕМІ	CISPR 32, FCC Part 15B Class A	
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11	
Safety	UL 60950-1, IEC 62368-1	
Declaration		
Green Product	RoHS, CRoHS, WEEE	
MTBF		
Time	836,374 hrs	
Standards	Telcordia (Bellcore) Standard	
Warranty		
Warranty Period	5 years	
Details	See www.moxa.com/warranty	
Package Contents		
Device	1 x NPort 5600-DT Series device server	
Installation Kit	1 x wall-mounting kit	
Cable	1 x Ethernet, RJ45	
Power Supply	1 x power adapter, suitable for your region	
Documentation	1 x quick installation guide 1 x warranty card	

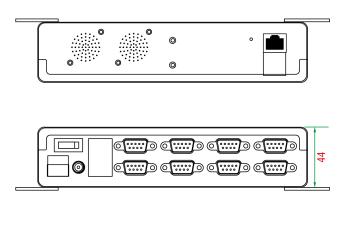


## **Dimensions**



Unit: mm





# **Ordering Information**

Model Name	Serial Interface	Serial Interface Connector	Serial Interface Isolation	Operating Temp.	Input Voltage
NPort 5610-8-DT	RS-232	DB9	-	0 to 55°C	12 to 48 VDC
NPort 5610-8-DT-T	RS-232	DB9	-	-40 to 75°C	12 to 48 VDC
NPort 5610-8-DT-J	RS-232	8-pin RJ45	-	0 to 55°C	12 to 48 VDC
NPort 5650-8-DT	RS-232/422/485	DB9	-	0 to 55°C	12 to 48 VDC
NPort 5650-8-DT-T	RS-232/422/485	DB9	-	-40 to 75°C	12 to 48 VDC
NPort 5650-8-DT-J	RS-232/422/485	8-pin RJ45	-	0 to 55°C	12 to 48 VDC
NPort 5650I-8-DT	RS-232/422/485	DB9	2 kV	0 to 55°C	12 to 48 VDC
NPort 5650I-8-DT-T	RS-232/422/485	DB9	2 kV	-40 to 75°C	12 to 48 VDC

# **Accessories (sold separately)**

### **DIN-Rail Mounting Kits**

DK35A	DIN-rail mounting kit, 35 mm
Wall-Mounting Kits	
WK-35-04	2 plates (35 x 44 x 2.5mm) with 6 screws (FTSx6 M3x4mm)
Power Adapters	
PWR-12300-WPAU-S1	Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, Australia (AU) plug, 0 to 40°C operating temperature
PWR-12300-WPCN-S1	Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, China (CN) plug, 0 to 40°C operating temperature
PWR-12300-WPEU-S1	Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature
PWR-12300-WPUK-S1	Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature
PWR-12300-WPUSJP-S1	Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature

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