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

Ethernet Interface	
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 (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



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	
Power Connector	1 removable 3-contact terminal block(s) 1 power input jack	
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	
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: Product only: 0.85 kg (1.874 lb) NPort 5610-8-DT-J: Product only: 0.80 kg (1.763 lb) NPort 5610-8-DT-T: Product only: 0.85 kg (1.874 lb) NPort 5650-8-DT: Product only: 0.87 kg (1.918 lb) NPort 5650-8-DT-J: Product only: 0.82 kg (1.808 lb) NPort 5650-8-DT-T: Product only: 0.86 kg (1.896 lb) NPort 5650I-8-DT: Product only: 0.94 kg (2.072 lb) NPort 5650I-8-DT-T: Product only: 0.94 kg (2.072 lb)	

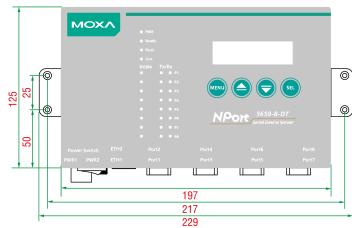


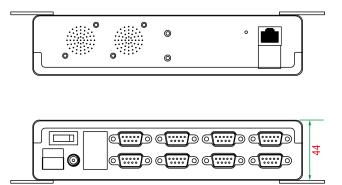
Interactive InterfaceLCD panel display Push buttons for configurationEnvironmental LimitsOperating TemperatureStandard models: 0 to 55°C (32 to 131°F) Wide T models: -40 to 75°C (-40 to 167°F)Storage Temperature (package included)-40 to 75°C (-40 to 167°F)Ambient Relative Humidity5 to 95% (non-condensing)	
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Ambient Relative Humidity 5 to 95% (non-condensing)	
Standards and Certifications	
EMC EN 55032/35	
EMI 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 DIPs	
Safety UL 60950-1	
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
Power Adapters	
PWR-12200-DT-S1	Desktop power supply (requires power cord), 12 VDC, 2 A, 100-240 VAC, 0 to 40°C operating temperature
Power Cords	
PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C13JP-3B-183	Power cord with Japan (JP) plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m
Wall-Mounting Kits	
WK-35-04	2 plates (35 x 44 x 2.5mm) with 6 screws (FTSx6 M3x4mm)



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