NPort 5400 Series



Features and Benefits

- · User-friendly LCD panel for easy installation
- · Adjustable termination and pull high/low resistors
- Socket modes: TCP server, TCP client, UDP
- Configure by Telnet, web browser, or Windows utility
- SNMP MIB-II for network management
- 2 kV isolation protection for NPort 5430I/5450I/5450I-T
- -40 to 75°C operating temperature range (-T model)

Certifications



Introduction

NPort® 5400 device servers provide many useful features for serial-to-Ethernet applications, including an independent operation mode for each serial port, user-friendly LCD panel for easy installation, dual DC power inputs, and adjustable termination and pull high/low resistors.

Network Readiness for up to 4 Serial Devices

NPort® 5400 device servers can conveniently and transparently connect up to four serial devices to an Ethernet network, allowing you to network your existing serial devices with only basic configuration. Data transmission between the serial and Ethernet interfaces is bidirectional. By using NPort® device servers, you not only protect your current hardware investment, but also allow for future network expansion. You can both centralize the management of your serial devices and distribute management hosts over the network.

Independent Operation Mode for Each Serial Port

NPort® 5400 device servers can be used to connect different devices for remote data polling or event handling over a TCP/IP network. Each serial port on the NPort® 5400 operates independently to provide maximum versatility. For example, port 1 can operate in Driver mode, port 2 in TCP Server mode, and ports 3 and 4 in TCP Client mode.

User-friendly LCD Panel for Easy Installation

An LCD panel is built into the NPort® 5400's top panel, with four buttons for data input, configuration, and operation mode selection. The LCD panel displays the server name, serial number, and IP address, and it can be used to enter or modify parameters such as IP address, netmask, and gateway. (The LCD panel is not available on wide-temperature models.)



Dual DC Power Inputs

NPort® 5400 device servers support dual power sources by providing both a DC terminal block input and a DC power jack input. Providing two types of power inputs gives users greater flexibility for use with different applications.

Adjustable Termination and Pull High/Low Resistors

The NPort 5400 Series provides adjustable termination and pull high/ low resistors for RS-485 applications. In some critical environments, termination resistors may be needed to prevent the reflection of serial signals, and the pull high/low resistors may need adjusting to maintain the integrity of the electrical signal. Since no set of resistor values is universally compatible with all environments, the NPort® 5400 has four sets of DIP switches on the bottom panel to set the termination and pull high/low resistor values.







Specifications

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	1
Magnetic Isolation Protection	1.5 kV (built-in)
Ethernet Software Features	
Configuration Options	Telnet Console, Windows Utility, Web Console (HTTP/HTTPS)
Management	ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, Rtelnet, SMTP, SNMPv1/v2c, TCP/IP, Telnet, UDP
Filter	IGMP v1/v2
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10/11 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Server 2022, 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	macOS 10.12, macOS 10.13, macOS 10.14, macOS 10.15, SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X
Android API	Android 3.1.x and later
Time Management	SNTP
Security Functions	
Authentication	Local database
Encryption	HTTPS, AES-128, RSA-1024, SHA-1, SHA-256
Security Protocols	HTTPS (TLS 1.2) SNMPv3
Serial Interface	
Connector	NPort 5410/5450/5450-T/5450I/5450I-T: DB9 male NPort 5430/5430I: Terminal block
No. of Ports	4
Serial Standards	NPort 5410: RS-232 NPort 5430 Models: RS-422, RS-485 NPort 5450 Models: RS-232, RS-422, RS-485
Operation Modes	Real COM, TCP Server, TCP Client, UDP, Ethernet Modem, Pair Connection, Reverse Telnet, Disabled
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 (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF
Isolation	2 kV isolation for NPort 5430I/5450I/5450I-T
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms



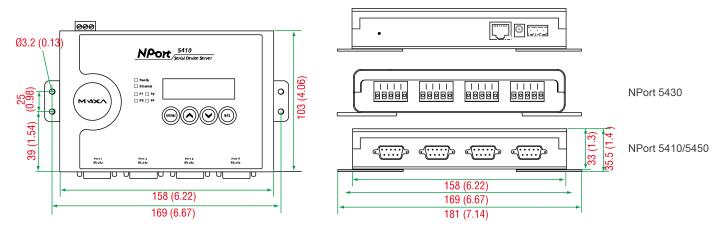
R5-485 Data Direction Control NPort 5450/5430/5450/5450.75.ADDC (automatic data direction control) Serial Signals TAD, RAD, RTS, CTS, DTR, DSR, DCD, GND R5-222 TAD, RAD, RTS, CTS, DTR, DSR, DCD, GND R5-422 Tax, Tx, Rx, Rx, GND R5-425-40w Tax, Tx, Rx, Rx, GND R5-425-40w Datar, Data, GND Power Parameters NPort 5410/5450/5450-15.355 mA & 12 VDC Nport S410/5450/5450-15.550 mA & 12 VDC NPort 54500/5450-15.550 mA & 12 VDC No of Power Inputs 2 Power Connector 1 removable 3-contact feminal block(s) Power Hoult Jack NPort 54500/5450-17.550 mA & 12 VDC NPort 54500/5450-17.550 mA & 12 VDC No of Power Inputs 2 Power Connector 1 removable 3-contact feminal block(s) Power Hoult Jack Reliability 2 Automatic Reboot Trigger Built-in WDT Alter Tools Built-in WDT Alter Tools Built-in WDT Automatic Reboot Trigger Netal Dimensions (with eans) 158 x 103 x 33 mm (2.22 x 4.06 x 1.30 in) Dimensions (with eans) 158 x 103 x 33 mm (2.22 x 4.06 x 1.30 in) Interactive Interface LCD parent dipley (standard temp. models only) Push buttons for configuration (standard temp. models only) Push buttons for configuration (standard temp. models only) Forigger Temperature Stan	Terminator for RS-485	120 ohms
R8-232TAD, RAD, RTS, CTS, DTA, DSR, DCD, GNDR8-422Tx+, Tx+, Rx+, Rx-, GNDR8-485-4wTx+, Tx+, Rx+, Rx-, GNDR8-485-2wData+, Data+, GNDPower ParametersInternational Control of Con	RS-485 Data Direction Control	NPort 5450/5430I/5450/5450I/5450-T: ADDC (automatic data direction control)
R8-232TAD, RAD, RTS, CTS, DTR, DSR, DCD, GNDR9-422Tx+, Tx+, Rx+, Rx-, GNDR9-485-4wTx+, Tx+, Rx+, Rx-, GNDR9-485-4wData+, Data+, GNDR9-485-2wData+, Data+, GNDPower ParametersNerd 5410/5450/5450-T: 355 mA € 12 VDD NPort 5430: 320 mA & 12 VDDNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) Power input JackInput Voltage12 VDD 	Serial Signals	
RS-485-4w Txe, Txe, Rxe, Rxc, QND RS-485-2w Datas, Datas, GND Power Parameters Input Current Input Current NPort 6410/6450/6460-T: 365 mA @ 12 VDC NPort 5430: 320 mA @ 12 VDC NPort 5430: 320 mA @ 12 VDC NPort 5430: 320 mA @ 12 VDC No. of Power Inputs 2 Power Connector 1 removable 3-contact terminal block(s) Power Input Jock Input Voltage 12 to 48 VDC, 24 VDC for DNV Reliability Automatic Reboot Trigger Automatic Reboot Trigger Built-in WDT Automatic Reboot Trigger Built-in Built-in Support S	_	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
B5-88-2w Data-, Data-, OND Power Parameters Input Current NPOrt 6410/6450/6450-T: 365 mA @ 12 VDC NPOrt 5430; 320 mA @ 12 VDC NPOrt 5430/8430 mA @ 12 VDC No. of Power Inputs 2 Power Connector 1emovable 3-contact terminal block(s) Input Voltage 12 to 48 VDC, 24 VDC for DNV Reliability 2 Automatic Reboot Trigger Built-in buzzer and RTC (real-time clock) Physical Characteristics Built-in buzzer and RTC (real-time clock) Physical Characteristics 191 x 103 x 33 mm (7.14 x 4.06 x 1.30 in) Pointensions (with ears) 191 x 103 x 33 mm (6.22 x 4.06 x 1.30 in) Dimensions (without ears) 198 x 103 x 33 mm (6.22 x 4.06 x 1.30 in) Vieight 740 g (1.63 lb) Interactive Interface Deaktop, DIN-rail mounting (with optional kit), Wall mounting Fervironmental Limits Vieight Operating Temperature (package included) 40 to 75°C (-40 to 167°F) Antient Relative Humidity 50 595% (noncondensing) Standard Models: 0 to 55°C (32 to 131 °F) Wide Temp. Models: 0 to 55°C (32 to 131 °F) Wide Temp. Models: 0 to 55°C (32 to 131 °F) Wide Temp. Models: 0 to 55°C (32 to 131 °F) Standard Models: 0 to 55°C (24 to 167°F) Anties of	RS-422	Tx+, Tx-, Rx+, Rx-, GND
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Input CurrentNPort S410/S450/S450-T; 365 mA @ 12 VDC NPOrt S430; 320 mA @ 12 VDC NPOrt S430/S4501-T; 550 mA @ 12 VDC NPORT S400/S4501-T; 550 mA @ 12 VDCNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) Power input jackInput Voltage12 to 48 VDC, 24 VDC for DNVPeliabilityAutomatic Reboot TriggerBuilt-in WDTAlert ToolsBuilt-in WDTAlert ToolsBuilt-in WDTPower input sol181 x 103 x 33 mm (7.14 x 4.06 x 1.30 in)Dimensions (with ears)181 x 103 x 33 mm (7.14 x 4.06 x 1.30 in)Dimensions (without ears)158 x 103 x 33 mm (6.22 x 4.06 x 1.30 in)Vieight740 g (1.63 lb)Interactive InterfaceLCD panel display (standard temp, models only) Push buttons for configuration (standard temp, models only)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsVieight Storge Temperature (package included)Operating Temperature (package included)40 to 75°C (40 to 167°F)Storage Temperature (package included)40 to 75°C (40 to 167°F)Storage Temperature (package included)5 to 95% (non-condensing)Storaders and CertificationsEMCEMCENS 5002/25EMSIEC 61000-42 ESD: Contact 6 KV; Air: 8 KV IEC 610	RS-485-2w	Data+, Data-, GND
Proof 5430: 320 mA @ 12 VDC NPort 54501/54501-7: 550 mA @ 12 VDCNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) Power Input jackInput Voltage12 to 48 VDC, 24 VDC for DNVReliabilityAutomatic Reboot TriggerBuilt-in WDTAutomatic Reboot TriggerBuilt-in WDTAutomatic Reboot TriggerBuilt-in WDTAutomatic Reboot TriggerBuilt-in buzzer and RTC (real-time clock)Physical CharacteristicsHousingMetalDimensions (with ears)181 x 103 x 33 mm (7.14 x 4.06 x 1.30 in)Dimensions (with ears)158 x 103 x 33 mm (6.22 x 4.06 x 1.30 in)Weight740 g (1.63 lib)Interactive InterfaceLCD panel display (standard temp, models only)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: 0 to 55°C (32 to 131°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 Humidity5 to 95% (non-condensing)Storage Temperature (package included)-40 to 75°C (-40 to 167°F)Storage Temperature (package included)<	Power Parameters	
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Push buttons for configuration (standard temp. models only)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsOperating TemperatureStandard Models: 0 to 55°C (32 to 131°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 Humidity5 to 95% (non-condensing)Standards and CertificationsEMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/mEMSIEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m	Weight	740 g (1.63 lb)
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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 Humidity5 to 95% (non-condensing)Standards and CertificationsEMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 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: 1 kV; Signal: 1 kV 	Environmental Limits	
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Standards and CertificationsEMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m	Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
EMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m	Ambient Relative Humidity	5 to 95% (non-condensing)
EMICISPR 32, FCC Part 15B Class AEMSIEC 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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m	Standards and Certifications	
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 61000-4-3 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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m	EMC	EN 55032/35
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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m	EMI	CISPR 32, FCC Part 15B Class A
IEC 61000-4-8 PFMF	EMS	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: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m



	IEC 61000-4-11
Safety	UL 62368-1
Maritime	DNV (DC input only)
Medical	EN 60601-1-2 Class B, EN 55011 (NPort 5410/5450/5450l models only)
MTBF	
Time	NPort 5410: 880,274 hrs NPort 5430: 826,688 hrs NPort 54301: 718,600 hrs NPort 5450: 773,682 hrs NPort 54501: 678,381 hrs NPort 5450-T: 1,213,993 hrs NPort 54501-T: 996,176 hrs
Standards	Telcordia (Bellcore) Standard TR/SR
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x NPort 5400 Series device server
Power Supply	1 x nonlocking barrel plug to bare wires: CBL-PJTB-10
Installation Kit	1 x wall-mounting kit
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Serial Interface	Serial Interface Connector	Serial Interface Isolation	Operating Temp.	Input Voltage
NPort 5410	RS-232	DB9 male	-	0 to 55°C	12 to 48 VDC
NPort 5430	RS-422/485	Terminal block	-	0 to 55°C	12 to 48 VDC
NPort 5430I	RS-422/485	Terminal block	2 kV	0 to 55°C	12 to 48 VDC



Model Name	Serial Interface	Serial Interface Connector	Serial Interface Isolation	Operating Temp.	Input Voltage
NPort 5450	RS-232/422/485	DB9 male	-	0 to 55°C	12 to 48 VDC
NPort 5450-T	RS-232/422/485	DB9 male	-	-40 to 75°C	12 to 48 VDC
NPort 5450I	RS-232/422/485	DB9 male	2 kV	0 to 55°C	12 to 48 VDC
NPort 5450I-T	RS-232/422/485	DB9 male	2 kV	-40 to 75°C	12 to 48 VDC

Accessories (sold separately)

Cables	
CBL-RJ45SF9-150	8-pin RJ45 to DB9 female serial cable with shielding, 1.5m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-RJ458P-100	8-pin RJ45 CAT5 Ethernet cable, 1 m
Connectors	
ADP-RJ458P-DB9F	DB9 female to RJ45 connector
Mini DB9F-to-TB	DB9 female to terminal block connector
DIN-Rail Mounting Kits	
DK35A	DIN-rail mounting kit, 35 mm
Power Adapters	
PWR-12150-WPUSJP-S2	Unlocking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature
PWR-12150-WPEU-S2	Unlocking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature
PWR-12150-WPUK-S2	Unlocking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature
PWR-12150-WPAU-S2	Unlocking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature
PWR-12150-WPCN-S2	Unlocking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature
Power Wiring	
CBL-PJTB-10	Non-locking barrel plug to bare-wire cable

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