NPort 5200A Series

2-port RS-232/422/485 serial device servers



Features and Benefits

- Fast 3-step web-based configuration
- · Surge protection for serial, Ethernet, and power
- COM port grouping and UDP multicast applications
- · Screw-type power connectors for secure installation
- Dual DC power inputs with power jack and terminal block
- Versatile TCP and UDP operation modes

Certifications



Introduction

The NPort® 5200A device servers are designed to make serial devices network-ready in an instant and give your PC software direct access to serial devices from anywhere on the network. The NPort® 5200A device servers are ultra-lean, ruggedized, and user-friendly, making simple and reliable serial-to-Ethernet solutions possible.

A Greener Serial-to-Ethernet Solution

The MiiNe is a small but powerful Arm-based serial-to-Ethernet SoC with RAM and Flash embedded. With the MiiNe inside, the NPort® 5200A Series saves at least 50% on power consumption compared to existing solutions on the market, helping engineers meet the tough environmental compliance challenges found in today's industrial environments.

Surge Protection for Serial, Ethernet, and Power

Surge, which is typically caused by high voltages that result from switching and lightning transients, is a common threat to all electrical devices. Moxa's leading-edge surge immunity solution, which is applied to the NPort® 5200A's serial, power, and Ethernet lines, is tested and proven compliant with IEC 61000-4-5. This state-of-the-art surge protection provides a robust serial-to-Ethernet solution that can protect electrical devices from voltage spikes and withstand electrically noisy environmental conditions.

3-Step Web-based Configuration

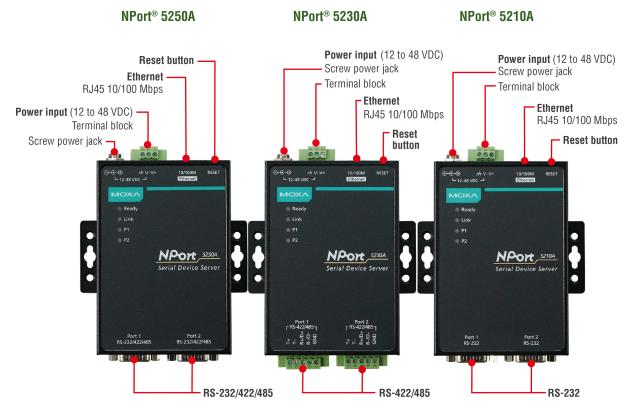
The NPort® 5200A's 3-step web-based configuration tool is straightforward and user-friendly. The NPort® 5200A's web console guides users through three simple configuration steps that are necessary to activate the serial-to-Ethernet application. With this fast 3-step web-based configuration, a user only needs to spend an average of 30 seconds to complete the NPort® settings and enable the application, saving a great amount of time and effort.

COM Port Grouping

The NPort® 5200A's COM Grouping function allows you to create a COM Group and redirect data from it to several physical COM ports on NPort device servers. With COM Grouping, you will be able to control multiple physical serial ports simultaneously by operating only one COM port.



Appearance



Specifications

Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1
Magnetic Isolation Protection	1.5 kV (built-in)
Ethernet Software Features	
Configuration Options	Windows Utility, Serial Console, Telnet Console, Web Console (HTTP/HTTPS)
Management	ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, SMTP, SNMPv1/v2c, Telnet, TCP/IP, 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 (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, 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
МІВ	RFC1213, RFC1317
Serial Interface	
Connector	NPort 5210A/5250A Series: DB9 male NPort 5230A Series: 5-pin terminal block
No. of Ports	2
Serial Standards	NPort 5210A Series: RS-232 NPort 5230A Series: RS-422, RS-485 NPort 5250A Series: RS-232, RS-422, RS-485



Client, TCP Server, UDP		
2400, 4800, 7200, 9600, 19200, 38400, 57600, 11520, 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 Pull High/Low Resistor for RS-485 1 kilo-ohm, 150 kilo-ohms R5-485 Data Direction Control ADDC@ (automatic data direction control) Terminator for RS-485 1 kilo-ohm, 150 kilo-ohms R5-485 Data Direction Control ADDC@ (automatic data direction control) Terminator for RS-485 1 20 ohms Sterial Signals rx+, Tx+, Rx+, GND R5-422 Txh, RxD, RTS, CTS, DTR, DSR, DCD, GND R5-485-2w Data+, Data-, GND Power Parameters Data+, Data-, GND Input Current 119 mA @ 12 VDC Input Voltage 12 to 48 VDC No. of Power Inputs 2 Power Connector Power Input ada Power Connector Built-in WDT Physical Characteristics 100 x 111 x 26 mm (3.04 x 4.37 x 1.02 in) Dimensions (with ears) 100 x 111 x 26 mm (3.03 x 4.37 x 1.02 in) Dimensions (with ears) 20 g (0.75 lb) Binadaltion Desktop, DIN-rail mounting (with optional kil), Wall mounting Environmental Limits Operating Temperature	Operation Modes	Disabled, Ethernet Modem, Pair Connection, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, UDP
Stop Bits1, 1.5, 2ParityNone, Even, Odd, Space, MarkFlow ControlRTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFFPull High/Low Resistor for RS-4851 kilo-ohm, 150 kilo-ohmsRS-485 Data Direction ControlADDC® (automatic data direction control)Terminator for RS-485120 ohmsSerial SignalsTx0, RX0, RTS, CTS, DTR, DSR, DCD, GNDRS-485 Data Direction ControlTx0, RX0, RTS, CTS, DTR, DSR, DCD, GNDRS-485.40Tx0, RX0, RTS, CTS, DTR, DSR, DCD, GNDRS-485.40Tx+, Tx-, Rx+, Rx-, GNDRS-485.40Data+, Data-, GNDRS-485.40Data-, Data-, GNDPower Parameters11 9 m & 91 2 VDCInput Current11 9 m & 91 2 VDCInput Voltage12 to 48 VDCNo. of Power Inputs2Power ConnectorInemovable 3-contact terminal block(s) power input jackPower ConnectorInemovable 3-contact terminal block(s) power input jackPoster ConnectorMetalDimensions (without ears)10 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)77 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)0 of c75 lb)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsOperating TemperatureOperating TemperatureStandard Models: -0 to 60°C (23 to 140°F) Wide Temp. Models: -0 to 75°C (44 to 167°F)	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
Parity None, Even, Odd, Space, Mark Flow Control RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF Pull High/Low Resistor for RS-485 1 kilo-ohms RS-485 Data Direction Control ADDC9 (automatic data direction control) Terminator for RS-485 1 kilo-ohm, 150 kilo-ohms Serial Stochastic data direction control) Serial Tato, RXD, RTS, CTS, DTR, DSR, DCD, GND RS-485 TxD, RXD, RTS, CTS, DTR, DSR, DCD, GND RS-485-4w TxD, RXD, RTS, CTS, OTR, DSR, DCD, GND RS-485-4w TxD, RXD, RTS, CTS, OTR, DSR, DCD, GND RS-485-4w Tx+, Tx-, Rx+, Rx-, GND RS-485-2w Data+, Data-, GND Power Parameters Input Current Input Current 119 mA @ 12 VDC Input Voltage 2 Power Connector Power input jack Power Connector Inemovable 3-contact terminal block(s) Power input jack Power Connector Bull-In WDT Physical Characteristics Housing Housing Metal Dimensions (with ears) 100 x111 x 26 mm (3.94 x 4.37 x 1.02 in) Dimensions (without ears)	Data Bits	5, 6, 7, 8
Flow ControlRTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFFPull High/Low Resistor for RS-4851 kilo-ohm, 150 kilo-ohmsRS-485 Data Direction ControlADDC@ (automatic data direction control)Terminator for RS-485120 ohmsSerial Signals	Stop Bits	1, 1.5, 2
Pull HighyLow Resistor for RS-485 1 kilo-ohm, 150 kilo-ohms RS-485 Data Direction Control ADDC® (automatic data direction control) Terminator for RS-485 120 ohms Serial Signals Italian and the series of the series o	Parity	None, Even, Odd, Space, Mark
RS-485 Data Direction Control ADDC® (automatic data direction control) Terminator for RS-485 120 ohms Serial Signals Tx0, Rx0, RTS, CTS, DTR, DSR, DCD, GND RS-482 Tx0, Rx0, RTS, CTS, DTR, DSR, DCD, GND RS-482 Tx+, Tx-, Rx+, Rx-, GND RS-485-4w Data+, Data-, GND RS-485-2w Data+, Data-, GND Power Parameters Input Current Input Voltage 12 to 48 VDC No. of Power Inputs 2 Power Connector I removable 3-contact terminal block(s) power input Jack Power Connector Built-in WDT Physical Characteristics Metal Dimensions (with ears) 100 x111 x 26 mm (3.94 x 4.37 x 1.02 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kill, Wall mounting Environmental Limits Desktop, DIN-rail mounting (with of 75°C (-40 to 167°F)	Flow Control	RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF
Terminator for RS-485120 ohmsSerialField SignalsRS-232TxD, RxD, RTS, CTS, DTR, DSR, DCD, GNDRS-422TxV, Tx, Rx, Rx, GNDRS-485-4wTx+, Tx, Rx+, Rx, GNDRS-485-2wData+, Data+, GNDPower ParametersInput CurrentInput Current119 mA @ 12 VDCInput Voltage2Power ConnectorI removable 3-contact terminal block(s) provinput jackPower ConnectorI removable 3-contact terminal block(s) provinput jackPhysical CharacteristicsMetalDimensions (with ears)100 x111 x26 mm (3.94 x 4.37 x 1.02 in)Dimensions (with ears)340 g (0.75 ib)InstallationDesktop, DIN-rail mounting (with optional kill, Wall mountingEnvironmental LimitsStandard Models: -0 to 75°C (-40 to 167°F)WeightStandard Models: -0 to 75°C (-40 to 167°F)	Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Serial Signals RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-232 Tx+, Tx-, Rx+, Rx-, GND RS-422 Tx+, Tx-, Rx+, Rx-, GND RS-485-4w Data+, Data-, GND RS-485-2w Data+, Data-, GND Power Parameters Input Current Input Voltage 119 mA @ 12 VDC No. of Power Inputs 2 Power Connector 1 removable 3-contact terminal block(s) Power input Jack Reliability 2 Automatic Reboot Trigger Built-in WDT Physical Characteristics Metal Dimensions (with ears) 170 x 111 x 26 mm (3.03 x 4.37 x 1.02 in) Dimensions (without ears) 77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in) Metal Sector (3.02 x 0.10 F) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Desktop, DIN-rail mounting (with optional kit), Wall mounting	RS-485 Data Direction Control	ADDC® (automatic data direction control)
RS-232TxD, RxD, RxS, CTS, DTR, DSR, DCD, GNDRS-422Tx+, Tx-, Rx+, Rx-, GNDRS-485-4wTx+, Tx-, Rx+, Rx-, GNDRS-486-2wData+, Data-, GNDPower ParametersInput CurrentInput Current119 mA @ 12 VDCInput Voltage12 to 48 VDCNo. of Power Inputs2Power ConnectorI removable 3-contact terminal block(s) Power input jackReliabilityItem WDTAutomatic Reboot TriggerBult-in WDTHousing100 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)Dimensions (without ears)77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Termp. Models: -40 to 75°C (-40 to 187°F) Wide Termp. Models: -40 to 75°C (-40 to 187°F) 	Terminator for RS-485	120 ohms
RS-422 Tx+, Tx-, Rx+, Rx-, GND RS-485-4w Tx+, Tx-, Rx+, Rx-, GND RS-485-2w Data+, Data-, GND RS-485-2w Data+, Data-, GND Power Parameters 119 mA @ 12 VDC Input Current 119 mA @ 12 VDC No. of Power Inputs 2 Power Connector 1 removable 3-contact terminal block(s) Power input jack Reliability 1 Automatic Reboot Trigger Bullt- in WDT Physical Characteristics Metal Pomensions (without ears) 100 x111 x 26 mm (3.94 x 4.37 x 1.02 in) Dimensions (without ears) 77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in) Intellation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Standard Models: 0 to 60°C (32 to 140°F) Operating Temperature Standard Models: -40 to 75°C (-40 to 167°F)	Serial Signals	
RS-485-4wTx+, Tx-, Rx+, Rx-, GNDRS-485-2wData+, Data-, GNDPower ParametersInput CurrentInput Current119 mA @ 12 VDCInput Voltage12 to 48 VDCNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) Power input jackReliabilityAutomatic Reboot TriggerAutomatic Reboot TriggerBuilt-in WDTHousingMetalDimensions (without ears)10x x111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)77 x 111 x 26 mm (3.93 x 4.37 x 1.02 in)MetalDimensions (without ears)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsEnvironmental LimitsOperating TemperatureStandard Models:: 0 to 60°C (32 to 140°F), Wide Temp. Model	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-485-2wData+, Data-, GNDPower ParametersInput Current119 mA @ 12 VDCInput Voltage12 to 48 VDCNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) power input jackReliabilityAutomatic Reboot TriggerBuilt-in WDTPhysical Characteristics100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (with ears)010 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)Dimensions (without ears)340 g (0.75 lb)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: -0 to 6°C (β2 to 140°F) wide Termp. Models: -40 to 75°C (+40 to 167°F)	RS-422	Tx+, Tx-, Rx+, Rx-, GND
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Input Voltage12 to 48 VDCNo. of Power Inputs2Power Connector1 removable 3-contact terminal block(s) Power input jackReliabilityAutomatic Reboot TriggerBuilt-in WDTPhysical CharacteristicsMetalPomensions (with ears)100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)340 g (0.75 lb)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Power Parameters	
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Power Connector1 removable 3-contact terminal block(s) Power input jackReliabilityAutomatic Reboot TriggerBuilt-in WDTPhysical CharacteristicsHousingMetalDimensions (with ears)100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)Weight340 g (0.75 lb)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Input Voltage	12 to 48 VDC
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CDimensions (with ears)100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)Dimensions (without ears)77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)Weight340 g (0.75 lb)InstallationDesktop, DIN-rail mounting (with optional kit), Wall mountingEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Physical Characteristics	
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Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Dimensions (with ears)	100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)
Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Standard Models: 0 to 60°C (32 to 140°F) Operating Temperature Standard Models: -40 to 75°C (-40 to 167°F)	Dimensions (without ears)	77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)
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)	Weight	340 g (0.75 lb)
Operating TemperatureStandard Models: 0 to 60°C (32 to 140°F)Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Installation	Desktop, DIN-rail mounting (with optional kit), Wall mounting
Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Environmental Limits	
Storage Temperature (package included) -40 to 75°C (-40 to 167°F)	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 Humidity5 to 95% (non-condensing)	Ambient Relative Humidity	5 to 95% (non-condensing)



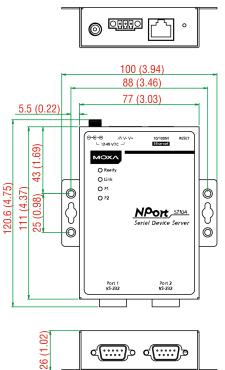
Standards and Certifications				
EMC	EN 55032/24			
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs			
EMI	CISPR 32, FCC Part 15B Class A			
Safety	UL 60950-1			
Declaration				
Green Product	RoHS, CRoHS, WEEE			
MTBF				
Time	847,750 hrs			
Standards	Telcordia (Bellcore) Standard TR/SR			
Warranty				
Warranty Period	5 years			
Details	See www.moxa.com/warranty			
Package Contents				
Device	1 x NPort 5200A Series device server			
Power Supply	1 x power adapter, suitable for your region (standard temp. models only)			
Documentation	1 x quick installation guide 1 x warranty card			



Dimensions

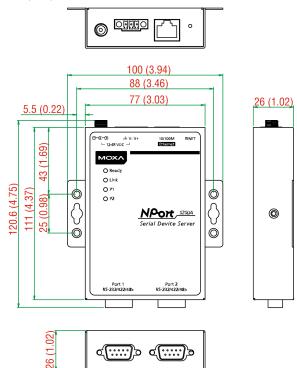
NPort 5210A

Unit: mm (inch)



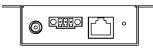
NPort 5250A

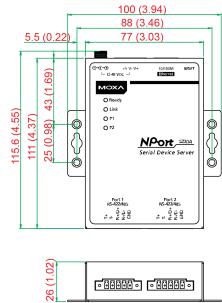
Unit: mm (inch)



NPort 5230A

Unit: mm (inch)





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Ordering Information

Model Name	Operating Temp.	Baudrate	Serial Standards	No. of Serial Ports	Input Current	Input Voltage
NPort 5210A	0 to 55°C	50 bps to 921.6 kbps	RS-232	2	119 mA @ 12 VDC	12-48 VDC
NPort 5210A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-232	2	119 mA @ 12 VDC	12-48 VDC
NPort 5230A	0 to 55°C	50 bps to 921.6 kbps	RS-422/485	2	119 mA @ 12 VDC	12-48 VDC
NPort 5230A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-422/485	2	119 mA @ 12 VDC	12-48 VDC
NPort 5250A	0 to 55°C	50 bps to 921.6 kbps	RS-232/422/485	2	119 mA @ 12 VDC	12-48 VDC
NPort 5250A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-232/422/485	2	119 mA @ 12 VDC	12-48 VDC

Accessories (sold separately)

Cables	
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
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-12050-WPAU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, Australia (AU) plug, 0 to 40°C operating temperature
PWR-12050-WPCN-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, China (CN) plug, 0 to 40°C operating temperature
PWR-12050-WPEU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature
PWR-12050-WPUK-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature
PWR-12050-WPUSJP-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, Australia (AU) plug, -40 to 75°C operating temperature
	Applicable Models: NPort 5210A-T NPort 5230A-T NPort 5250A-T
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, China (CN) plug, -40 to 75°C operating temperature
	Applicable Models: NPort 5210A-T NPort 5230A-T NPort 5250A-T
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, Continental Europe (EU) plug, -40 to 75°C operating temperature Applicable Models: NPort 5210A-T NPort 5230A-T
PWR-12150-UK-SA-T	NPort 5250A-T Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, United Kingdom (UK) plug, -40 to 75°C operating temperature



	Applicable Models: NPort 5210A-T NPort 5230A-T NPort 5250A-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, United States/Japan (US/JP) plug, -40 to 75°C operating temperature Applicable Models: NPort 5210A-T NPort 5230A-T NPort 5250A-T
Power Cords	

CBL-PJ21NOPEN-BK-30	Locking barrel plug to bare-wire cable

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