NPort 5100A Series

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



Features and Benefits

- · Power consumption of only 1 W
- · 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
- Real COM/TTY drivers for Windows and Linux
- Standard TCP/IP interface and versatile TCP and UDP operation modes
- · Connects up to 8 TCP hosts

Certifications







Introduction

The NPort® 5100A 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® 5100A 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® 5110A Series' power consumption is less than 1 W. The NPort® 5100A 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® 5100A'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

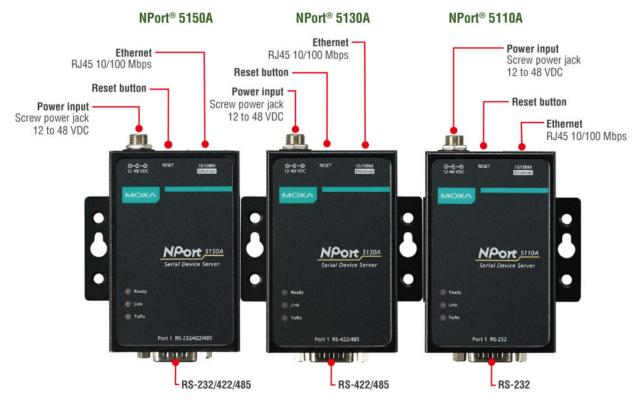
The NPort® 5100A's 3-step web-based configuration tool is straightforward and user-friendly. The NPort® 5100A's web console guides users through three simple configuration steps that are necessary to activate the serial-to-Ethernet application. With this fast 3-step web-based configuration, a user only 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.

Easy to Troubleshoot

NPort® 5100A device servers support SNMP, which can be used to monitor all units over Ethernet. Each unit can be configured to send trap messages automatically to the SNMP manager when user-defined errors are encountered. For users who do not use SNMP manager, an email alert can be sent instead. Users can define the trigger for the alerts using Moxa's Windows utility, or the web console. For example, alerts can be triggered by a warm start, a cold start, or a password change.



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 (NPort 5110A/5150A models only), Telnet Console, Web Console (HTTP/HTTPS)
Management	DHCP Client, ARP, BOOTP, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, 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 (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, 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
MIB	RFC1213, RFC1317
Serial Interface	
Connector	DB9 male
No. of Ports	1
Serial Standards	NPort 5110A: RS-232 NPort 5130A: RS-422, RS-485 NPort 5150A: RS-232, RS-422, RS-485



Disabled, Ethernet Modes		
2400, 4800, 7200, 9800, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.8k	Operation Modes	
Stop Bits 1,1.5, 2	Baudrate	
Parity	Data Bits	5, 6, 7, 8
RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF	Stop Bits	1, 1.5, 2
Pull High/Low 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 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND 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 No. of Power Inputs No. of Power Inputs 1 Input Current No. of St 110 As 82.5 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC Input Voltage 12 to 48 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Operating Temperature (package included) -40 to 75°C (-40 to 167°F)	Parity	None, Even, Odd, Space, Mark
RS-485 Data Direction Control ADDC® (automatic data direction control)	Flow Control	RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF
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 No. of Power Inputs No. of Power Inputs 1 Input Current NPort 5110A: 82.5 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC Input Voltage 12 to 48 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Operating Temperature (package included) -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 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-422 Tx+, Tx-, Rx+, Rx-, GND RS-485-4w Tx+, Tx-, Rx+, Rx-, GND RS-485-2w Data+, Data-, GND Power Parameters Input Current No. of Power Inputs 1 Input Current NPort \$110A: 82.5 mA @ 12 VDC NPort \$150A: 82.4 mA @ 12 VDC NPORT \$150A: 92.4 mA @ 12 VDC Input Voltage 12 to 48 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Operating Temperature Standard Models: 0 to 80°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 187°F) Storage Temperature (package included) -40 to 75°C (-40 to 187°F)	RS-485 Data Direction Control	ADDC® (automatic data direction control)
RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	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 Power Parameters No. of Power Inputs Input Current NPort 5110A: 82.5 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC Input Voltage 12 to 48 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Serial Signals	
RS-485-4w RS-485-2w Data+, Data-, GND Power Parameters No. of Power Inputs Input Current NPort 5110A: 82.5 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting Environmental Limits Operating Temperature Standard Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 75°C (-40 to 167°F)	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Power Parameters No. of Power Inputs Input Current NPort 5110A: 82.5 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC NPORT 5150A:	RS-422	Tx+, Tx-, Rx+, Rx-, GND
Power Parameters No. of Power Inputs 1 Input Current NPort 5110A: 82.5 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5130A: 89.1 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC NPort 5150A: 92.4 mA @ 12 VDC Source of Input Power Power input jack Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
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Source of Input Power Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Input Current	NPort 5130A: 89.1 mA @ 12 VDC
Reliability Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Input Voltage	12 to 48 VDC
Automatic Reboot Trigger Built-in WDT Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Source of Input Power	Power input jack
Physical Characteristics Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Reliability	
Housing Metal Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Automatic Reboot Trigger	Built-in WDT
Dimensions (with ears) 75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in) Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Physical Characteristics	
Dimensions (without ears) 52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in) Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Housing	Metal
Weight 340 g (0.75 lb) Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Dimensions (with ears)	75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in)
Installation Desktop, DIN-rail mounting (with optional kit), Wall mounting 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)	Dimensions (without ears)	52 x 80 x 22 mm (2.05 x 3.15 x 0.87 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) Storage Temperature (package included) -40 to 75°C (-40 to 167°F)	Weight	340 g (0.75 lb)
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)	Installation	Desktop, DIN-rail mounting (with optional kit), Wall mounting
Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 75°C (-40 to 167°F)	Environmental Limits	
	Operating Temperature	
Ambient Relative Humidity 5 to 95% (non-condensing)	Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
	Ambient Relative Humidity	5 to 95% (non-condensing)



Standards and Certifications

Standards and Certifications	
EMC	EN 55032/24
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: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 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
Safety	UL 60950-1
Declaration	
Green Product	RoHS, CRoHS, WEEE
MTBF	
Time	2,231,530 hrs
Standards	Telcordia (Bellcore) Standard TR/SR
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x NPort 5100A 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

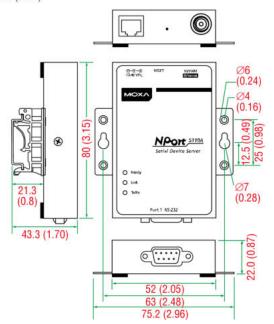


Dimensions

NPort 5110A

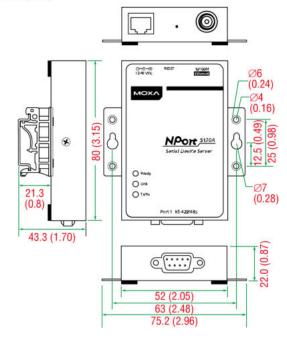
MEDICATION

Unit: mm (inch)



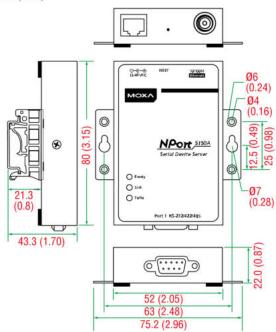
NPort 5130A

Unit: mm (inch)



NPort 5150A

Unit: mm (inch)



Ordering Information

Model Name	Operating Temp.	Baudrate	Serial Standards	No. of Serial Ports	Input Current	Input Voltage
NPort 5110A	0 to 60°C	50 bps to 921.6 kbps	RS-232	1	82.5 mA @ 12 VDC	12-48 VDC
NPort 5110A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-232	1	82.5 mA @ 12 VDC	12-48 VDC
NPort 5130A	0 to 60°C	50 bps to 921.6 kbps	RS-422/485	1	89.1 mA @ 12 VDC	12-48 VDC



Model Name	Operating Temp.	Baudrate	Serial Standards	No. of Serial Ports	Input Current	Input Voltage
NPort 5130A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-422/485	1	89.1 mA @ 12 VDC	12-48 VDC
NPort 5150A	0 to 60°C	50 bps to 921.6 kbps	RS-232/422/485	1	92.4 mA @ 12 VDC	12-48 VDC
NPort 5150A-T	-40 to 75°C	50 bps to 921.6 kbps	RS-232/422/485	1	92.4 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
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Power Adapters

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 5110A-T NPort 5130A-T NPort 5150A-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 5110A-T NPort 5130A-T NPort 5150A-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 5110A-T NPort 5130A-T NPort 5150A-T
PWR-12150-UK-SA-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 5110A-T NPort 5130A-T NPort 5150A-T



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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 5110A-T NPort 5130A-T NPort 5150A-T

Power Cords

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

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