NPort 5000AI-M12 Series

Railway 1, 2, and 4-port RS-232/422/485 serial device servers



Features and Benefits

- · Speedy 3-step web-based configuration
- · COM port grouping and UDP multicast applications
- · Real COM/TTY drivers for Windows and Linux
- Standard TCP/IP interface and versatile TCP and UDP operation modes
- Complies with EN 50121-4
- Complies with all EN 50155 mandatory test items¹
- · M12 connector and IP40 metal housing
- · 2 kV isolation for serial signals

Certifications







Introduction

The NPort® 5000AI-M12 serial device servers are designed to make serial devices network-ready in an instant, and provide direct access to serial devices from anywhere on the network. Moreover, the NPort 5000Al-M12 is compliant with EN 50121-4 and all mandatory sections of EN 50155, covering operating temperature, power input voltage, surge, ESD, and vibration, making them suitable for rolling stock and wayside applications where high levels of vibration exist in the operating environment.

3-Step Web-based Configuration

The NPort 5000Al-M12's 3-step web-based configuration tool is straightforward and user-friendly. The NPort 5000Al-M12's web console guides users through three simple configuration steps that are necessary to activate the serial-to-Ethernet application. With this speedy 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 5000AI-M12 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.

Specifications

Ethernet Interface

10/100BaseT(X) Ports (M12 D-coded 4-pin female connector)	1
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Ethernet Software Features

Configuration Options	Telnet Console, Web Console (HTTP/HTTPS), Windows Utility			
Management	ARP, BOOTP, DHCP Client, 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 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded			

This product is suitable for rolling stock railway applications, as defined by the EN 50155 standard. For a more detailed statement, click here: www.moxa.com/ doc/specs/EN_50155_Compliance.pdf



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			
Serial Interface				
Connector	DB9 male			
No. of Ports	NPort 5150Al-M12 Series: 1 NPort 5250Al-M12 Series: 2 NPort 5450Al-M12 Series: 4			
Serial Standards	RS-232, RS-422, RS-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 (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF			
RS-485 Data Direction Control	ADDC® (automatic data direction control)			
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 5150Al-M12 Series: 310 mA @ 12 VDC NPort 5250Al-M12 Series: 360 mA @ 12 VDC NPort 5450Al-M12 Series: 440 mA @ 12 VDC			
Input Voltage	12 to 48 VDC			
Note	Compliant with EN 50155 on 24/48 VDC			
Power Connector	M12 A-coded 5-pin male connector			
Reliability				
Automatic Reboot Trigger	Built-in WDT			
Alert Tools	Built-in buzzer and RTC (real-time clock)			
Physical Characteristics				
Dimensions	80 x 216.6 x 52.9 mm (3.15 x 8.53 x 2.08 in)			
Weight	686 g (1.51 lb)			
Protection	NPort 5000AI-M12-CT Series: PCB Conformal Coating			



Standard Models: -25 to 55°C (-13 to 131°F) Wide Temp. Models: -26 to 55°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 55032/24 EMI CISPR 32, FCC Part 15B Class A EMS LEC 61000-4-2 ESD: Contact: 6 kV; Air. 8 kV LEC 61000-4-2 ESD: Contact: 6 kV; Air. 8 kV LEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m LEC 61000-4-5 Surge: 90wers 0.5 kV; Signal: 2 kV LEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m LEC 61000-4-5 Surge: 90wers 0.5 kV; Signal: 2 kV LEC 61000-4-5 PFMF Railway EN 50121-4 Safety UL 60950-1 Vibration LEC 6008-2-6 Declaration Green Product RoHs, CROHS, WEEE MTBF Time RoHs, CROHS, WEEE MTBF Time RoHs, CROHS, WEEE MTBF Time RoHs, CROHS, WEEE MTBF Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents Device 1 x NPort 5000Al-M12 Series device server	Environmental Limits				
Ambient Relative Humidity 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 61000-4-8 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-8 Surge: Power: 0.5 kV; Signal: 2 kV IEC 61000-4-8 Surge: Power: 0.5 kV; Signal: 2 kV IEC 61000-4-8 PFMF Railway EN 50121-4 Safety UL 60950-1 Vibration IEC 60068-2-6 Declaration Green Product RoHS, CROHS, WEEE MTBF Time NPort 5150Al-M12 Series: 789,341 hrs NPort 5250Al-M12 Series: 467,777 hrs Standards Veloration Telcordia (Bellcore) Standard TR/SR Warranty Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Operating Temperature				
Standards and Certifications	Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)			
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 BFS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 ES: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF Railway EN 50121-4 Safety UL 60950-1 Vibration IEC 60068-2-6 Declaration Green Product RoHS, CRoHS, WEEE MTBF Time NPort 5150AI-M12 Series: 789,341 hrs NPort 5250AI-M12 Series: 639,622 hrs NPort 5450AI-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty	Ambient Relative Humidity	5 to 95% (non-condensing)			
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 61000-4-8 ETF: Power: 2 kV; Signal: 2 kV IEC 61000-4-8 EST: 90 WHz: 10 V/m; Signal: 2 kV IEC 61000-4-8 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF Railway EN 50121-4 Safety UL 60950-1 Vibration IEC 60068-2-6 Declaration Green Product RoHS, CRoHS, WEEE MTBF Time NPort 5150Al-M12 Series: 789,341 hrs NPort 5250Al-M12 Series: 639,622 hrs NPort 5450Al-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Standards and Certifications				
EMS	EMC	EN 55032/24			
IEC 61000-4-3 BS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-5 Eurgs: 2 kV IEC 61000-4-5 Eurgs: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Eurgs: Power: 0.5 kV; Signal: 2 kV IEC 61000-4-5 Eurgs: Power: 0.5 kV; Signal: 10 V/m IEC 61000-4-8 PFMF Railway	ЕМІ	CISPR 32, FCC Part 15B Class A			
Safety UL 60950-1 Vibration IEC 60068-2-6 Declaration Green Product RoHS, CRoHS, WEEE MTBF Time NPort 5150Al-M12 Series: 789,341 hrs NPort 5250Al-M12 Series: 639,622 hrs NPort 5450Al-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	EMS	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m			
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Declaration Green Product RoHS, CRoHS, WEEE MTBF Time NPort 5150Al-M12 Series: 789,341 hrs NPort 5250Al-M12 Series: 639,622 hrs NPort 5450Al-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Safety	UL 60950-1			
MTBF Time NPort 5150Al-M12 Series: 789,341 hrs NPort 5250Al-M12 Series: 639,622 hrs NPort 5450Al-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Vibration	IEC 60068-2-6			
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NPort 5250Al-M12 Series: 639,622 hrs NPort 5450Al-M12 Series: 467,777 hrs Standards Telcordia (Bellcore) Standard TR/SR Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	MTBF				
Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Time	NPort 5250Al-M12 Series: 639,622 hrs			
Warranty Period 5 years Details See www.moxa.com/warranty Package Contents	Standards	Telcordia (Bellcore) Standard TR/SR			
Details See www.moxa.com/warranty Package Contents	Warranty				
Package Contents	Warranty Period	5 years			
	Details	See www.moxa.com/warranty			
Device 1 x NPort 5000Al-M12 Series device server	Package Contents				
	Device	1 x NPort 5000AI-M12 Series device server			

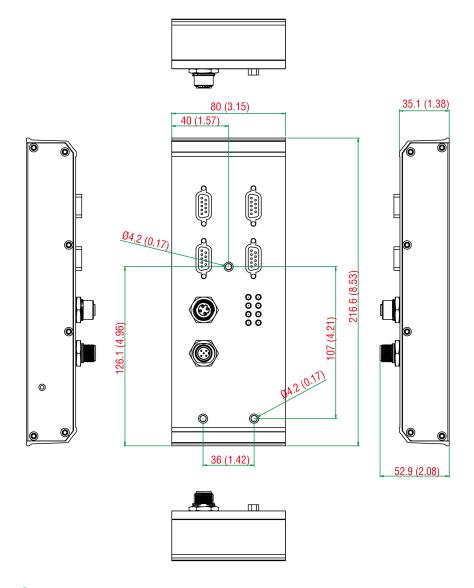


Documentation

1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	No. of Serial Ports	Power Input Voltage	Operating Temp.	PCB Conformal Coating
NPort 5150AI-M12	1	12-48 VDC	-25 to 55°C	-
NPort 5150AI-M12-CT	1	12-48 VDC	-25 to 55°C	✓
NPort 5150AI-M12-T	1	12-48 VDC	-40 to 75°C	-
NPort 5150AI-M12-CT-T	1	12-48 VDC	-40 to 75°C	✓
NPort 5250AI-M12	2	12-48 VDC	-25 to 55°C	-
NPort 5250AI-M12-CT	2	12-48 VDC	-25 to 55°C	✓
NPort 5250AI-M12-T	2	12-48 VDC	-40 to 75°C	-
NPort 5250AI-M12-CT-T	2	12-48 VDC	-40 to 75°C	✓
NPort 5450AI-M12	4	12-48 VDC	-25 to 55°C	-
NPort 5450AI-M12-CT	4	12-48 VDC	-25 to 55°C	✓
NPort 5450AI-M12-T	4	12-48 VDC	-40 to 75°C	-
NPort 5450AI-M12-CT-T	4	12-48 VDC	-40 to 75°C	✓

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
CBL-RJ458P-100	8-pin RJ45 CAT5 Ethernet cable, 1 m
CBL-RJ45SF9-150	8-pin RJ45 to DB25 male serial cable with shielding, 1.5m

Connectors

Connectors	
Mini DB9F-to-TB	DB9 female to terminal block connector

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NPort IA5000A Series

1, 2, and 4-port serial device servers for industrial automation



Features and Benefits

- · 2 Ethernet ports with the same IP or dual IP addresses for network redundancy
- C1D2, ATEX, and IECEx certified for harsh industrial environments
- · Cascading Ethernet ports for easy wiring
- · Enhanced surge protection for serial, LAN, and power
- · Screw-type terminal blocks for secure power/serial connections
- · Redundant DC power inputs
- · Warnings and alerts by relay output and email
- 2 kV isolation for serial signals (isolation models)
- -40 to 75°C operating temperature range (-T models)

Certifications









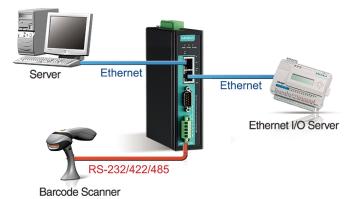


Introduction

The NPort IA5000A device servers are designed for connecting industrial automation serial devices, such as PLCs, sensors, meters, motors, drives, barcode readers, and operator displays. The device servers are solidly built, come in a metal housing and with screw connectors, and provide full surge protection. The NPort IA5000A device servers are extremely user-friendly, making simple and reliable serial-to-Ethernet solutions possible.

Cascading Ethernet Ports Make Wiring Easy

The NPort IA5000A device servers each have two Ethernet ports that can be used as Ethernet switch ports. One port connects directly to the network or server, and the other port can be connected to either another NPort IA device server or another Ethernet device. The dual Ethernet ports help reduce wiring costs by eliminating the need to connect each device to a separate Ethernet switch.



Redundant Power Inputs

The NPort IA5000A Series of device servers have two power inputs that can be connected simultaneously to live DC power sources. If one power source fails, the other source takes over automatically. Redundant power inputs help ensure uninterrupted operation of your device server.

Dual Power Inputs





Relay Output Warning and Email Alerts

The built-in relay output can be used to alert administrators when the network is down, when power failure occurs, or when there is a change in the DCD or DSR serial signals. An email warning can also be issued when an abnormality is detected. These functions are valuable tools that enable maintenance engineers to react promptly to emergency situations.



Surge Protection for Serial, Ethernet, and Power

Moxa's leading-edge surge immunity solution, which is applied to the NPort® IA5000A's serial, power, and Ethernet lines, is tested and proven compliant with IEC 61000-4-5. This advanced surge protection provides a robust serial-to-Ethernet solution that can protect electrical devices from voltage spikes and resist electrical interference, such as in oil, gas, and power automation applications.

Industrial-grade Certification

To ensure safe and reliable operation in industrial environments, the NPort® IA5000A device servers have obtained various industrial certifications, including an IP30 rating for mechanical protection and UL 508 safety certification for industrial control equipment. In addition, these device servers are UL/cUL listed (for Class 1, Division 2, Groups A,B,C,D), ATEX Class 1 Zone 2, and IECEx compliant for use in hazardous locations.

Specifications

Ethernet	Interface
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10/100BaseT(X) Ports (RJ45 connector)	Supports 2 IP addresses Auto MDI/MDI-X connection		
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		
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		
Time Management	SNTP		
Serial Interface			
Connector	NPort IA5150A Series: DB9 male (RS-232), Terminal Block (RS-422/485) NPort IA5250A Series: DB9 male (RS-232/422/485) NPort IA5450A Series: DB9 male (RS-232/422/485)		
No. of Ports	NPort IA5150A Series: 1 NPort IA5250A Series: 2 NPort IA5450A Series: 4		
Serial Standards	RS-232, RS-422, RS-485		
Operation Modes	Disabled, Ethernet Modem, Pair Connection, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, UDP		



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	None, RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF			
Isolation	NPort IA5150AI/IA5250AI/IA5450AI Series: 2 kV (I models)			
RS-485 Data Direction Control	ADDC® (automatic data direction control)			
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms			
Terminator for RS-485	120 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	NPort IA5150A Series: 220 mA @ 12 VDC NPort IA5150AI Series: 225 mA @ 12 VDC NPort IA5250A Series: 250 mA @ 12 VDC NPort IA5250AI Series: 290 mA @ 12 VDC NPort IA5450A Series: 374 mA @ 12 VDC NPort IA5450AI Series: 512 mA @ 12 VDC			
Input Voltage	12 to 48 VDC			
No. of Power Inputs	2			
Power Connector	Terminal block			
Physical Characteristics				
Housing	Metal			
Dimensions	NPort IA5150A/IA5250A Series: 36 x 105 x 140 mm (1.42 x 4.13 x 5.51 in) NPort IA5450A Series: 45.8 x 134 x 105 mm (1.8 x 5.28 x 4.13 in)			
Weight	NPort IA5150A Series: 475 g (1.05 lb) NPort IA5250A Series: 485 g (1.07 lb) NPort IA5450A Series: 560 g (1.23 lb)			
Installation	DIN-rail mounting, Wall mounting (with optional kit)			
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

Standards and Certifications				
EMC	EN 55032/24			
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: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 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			
Hazardous Locations	NPort IA5100A/IA5200A models: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2 NPort IA5100A-IEX/IA5200A-IEX models: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2, IECEx NPort IA5400A Series: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2, IECEx, UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2			
Safety	UL 508			
Vibration	IEC 60068-2-6			
Shock	IEC 60068-2-27			
Freefall	IEC 60068-2-32			
Declaration				
Green Product	Rohs, Crohs, Weee			
мтвғ				
Time	262,805 hrs			
Standards	Telcordia (Bellcore) Standard TR/SR			
Warranty				
Warranty Period	5 years			
Details	See www.moxa.com/warranty			
Package Contents				
Device	1 x NPort IA5000A Series device server			
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card			

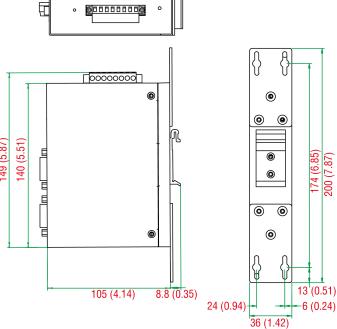


Dimensions

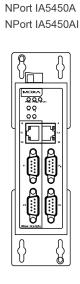
Unit: mm (inch)

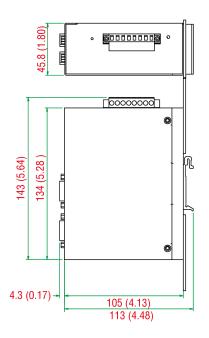
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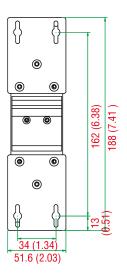
(14) (2.5) 041



Unit: mm (inch)







Ordering Information

Model Name	Operating Temp.	Serial Standards	Serial Isolation	No. of Serial Ports	Certification: Hazardous Locations
NPort IA5150A	0 to 60°C	RS-232/422/485	-	1	ATEX, C1D2
NPort IA5150A-T	-40 to 75°C	RS-232/422/485	-	1	ATEX, C1D2
NPort IA5150AI	0 to 60°C	RS-232/422/485	2 kV	1	ATEX, C1D2
NPort IA5150AI-T	-40 to 75°C	RS-232/422/485	2 kV	1	ATEX, C1D2
NPort IA5150A-IEX	0 to 60°C	RS-232/422/485	-	1	ATEX, C1D2, IECEx
NPort IA5150A-T-IEX	-40 to 75°C	RS-232/422/485	-	1	ATEX, C1D2, IECEx

Model Name	Operating Temp.	Serial Standards	Serial Isolation	No. of Serial Ports	Certification: Hazardous Locations
NPort IA5150AI-IEX	0 to 60°C	RS-232/422/485	2 kV	1	ATEX, C1D2, IECEx
NPort IA5150AI-T-IEX	-40 to 75°C	RS-232/422/485	2 kV	1	ATEX, C1D2, IECEx
NPort IA5250A	0 to 60°C	RS-232/422/485	-	2	ATEX, C1D2
NPort IA5250A-T	-40 to 75°C	RS-232/422/485	-	2	ATEX, C1D2
NPort IA5250AI	0 to 60°C	RS-232/422/485	2 kV	2	ATEX, C1D2
NPort IA5250AI-T	-40 to 75°C	RS-232/422/485	2 kV	2	ATEX, C1D2
NPort IA5250A-IEX	0 to 60°C	RS-232/422/485	-	2	ATEX, C1D2, IECEx
NPort IA5250A-T-IEX	-40 to 75°C	RS-232/422/485	-	2	ATEX, C1D2, IECEx
NPort IA5250AI-IEX	0 to 60°C	RS-232/422/485	2 kV	2	ATEX, C1D2, IECEx
NPort IA5250AI-T-IEX	-40 to 75°C	RS-232/422/485	2 kV	2	ATEX, C1D2, IECEx
NPort IA5450A	0 to 60°C	RS-232/422/485	-	4	ATEX, C1D2, IECEx
NPort IA5450A-T	-40 to 75°C	RS-232/422/485	-	4	ATEX, C1D2, IECEx
NPort IA5450AI	0 to 60°C	RS-232/422/485	2 kV	4	ATEX, C1D2, IECEx
NPort IA5450AI-T	-40 to 75°C	RS-232/422/485	2 kV	4	ATEX, C1D2, IECEx

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
CBL-RJ458P-100	8-pin RJ45 CAT5 Ethernet cable, 1 m
CBL-RJ45SF9-150	8-pin RJ45 to DB25 male serial cable with shielding, 1.5m

Connectors

ADP-RJ458P-DB9F	DB9 female to RJ45 connector
Mini DB9F-to-TB	DB9 female to terminal block connector

Power Cords

CBL-PJTB-10	Non-locking barrel plug to bare-wire cable
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Power Supplies

DR-4524	$45 \text{W}/2 \text{A}$ DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50° C operating temperature
DR-120-24	120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature
DR-75-24	$75\text{W}/3.2\text{A}$ DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature

Wall-Mounting Kits

WK-36-02	DIN-rail/wall-mounting kit, 2 plates, 6 screws Applicable Models: NPort IA5150A NPort IA5250A
WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws Applicable Models: NPort IA5450A



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