



MOXA NPort Series Serial to Ethernet Converters User Guide

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NPort Series

Serial Device Servers

Choosing Your Best Fit: Key Considerations for Selecting an NPort



1. Number of Ports:

Q: How many serial field devices need to be connected? Which interface is required?



The NPort has 1 to 16 ports with interface options for RS-232, RS-422, or RS-485.

2. Operational Environment:

Evaluating the environment where the NPort will be deployed.



Q1: What is the ambient temperature?

The NPort supports standard (0~60°C) and wide temperature (-40~75°C) solutions.



Q2: Does the possibility for potential voltage difference exist between serial devices, such as different power sources, that might trigger ground loop?

The NPort with serial isolation is designed to stop transients caused by the ground loop and protect serial devices from being damaged.



Q3: Is there any possibility of having a short, fast increase in voltage, such as lightning or switching power, that may cause an increase in electrical current?

The NPort with surge protection is designed to prevent damage or impairment caused by surge.



Q4: Does the application require industrial certifications?

The NPort supports hazardous locations certification (such as C1D2, ATEX, and IECEx) for industry-specific needs.

3. Cybersecurity:

Q: Is the integrity of serial data a big concern in your application? Is your organization using a centralized database to authenticate remote users (such as RADIUS)

All NPort solutions come with standard cybersecurity features such as Login Authentication and Network Access Control.

Advanced security functions such as data encryption or support of authentication servers are available in the NPort 6000 Series.



Standard
General-purpose application



Rugged Design
Harsh environments industrial certifications



Compact
High-port density in small form factor

	Model	1/2/4 port			8/16 port	
		5100A, 5200A, 5400	W2150A, W2250A	IA5100A, IA5200A, IA5400A	5600	5600-DT, 5600-DTL
Basic	Serial Ports	1-4	1-2	1-4	8/16	8
	RS-232/422/485	•	•	•	•	•
	Ethernet	1	1	2	1	1
	Window/Linux Driver	•	•	•	•	•
Security	Login Authentication	Password Protection (length, character enforcement)	Password Protection (length, character enforcement)	Password Protection (length, character enforcement)	Password Protection (length, character enforcement)	Password Protection (length, character enforcement)
	Console Management	• HTTPS • Unused services can be disabled	• HTTPS • Unused services can be disabled	• HTTPS • Unused services can be disabled	• HTTPS • Unused services can be disabled	• HTTPS • Unused services can be disabled
	Network Access Control	Accessible IP List	Accessible IP List (For operation modes only)	Accessible IP List	Accessible IP List	Accessible IP List
Reliability	Industrial Certifications	-	-	C1D2, ATEX, IECEx	-	-
	Serial Isolation	•	-	•	•	•
	Wide Temperature	•	•	•	•	•

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