

NPort Express 系列

1 埠入門級 RS-232/422/485 串列裝置伺服器



特色與優點

- 三合一串列埠：RS-232、RS-422 或 RS-485
- 多種運作模式，包括 TCP Server、TCP Client、UDP、Ethernet Modem 和 Pair Connection
- 用於 Windows 和 Linux 的 Real COM/TTY 驅動程式
- 2 線 RS-485，含自動資料流向控制 (ADDC)

認證



簡介

NPort® DE-211 和 DE-311 是單埠的序列裝置伺服器，支援 RS-232、RS-422 和 2 線式 RS-485。DE-211 支援 10 Mbps 乙太網路連線，並採用 DB25 母接頭作為串列埠。DE-311 支援 10/100 Mbps 乙太網路連線，並採用 DB9 母接頭作為序列埠。這兩種裝置伺服器都相當適合在資訊顯示板、PLC、流量計、天然氣量表、CNC 機器和生物識別卡讀取器的應用。

規格

Ethernet Interface

No. of Ports	1
Magnetic Isolation Protection	1.5 kV (built-in)
10/100BaseT(X) Ports (RJ45 connector)	DE-311: Auto MDI/MDI-X connection
10BaseT(X) Ports, RJ45 Connector	DE-211: Auto MDI/MDI-X connection

Ethernet Software Features

Configuration Options	Windows Utility, Telnet Console, Serial Console
Management	ARP, BOOTP, DHCP Client, IPv4, TCP/IP, Telnet, UDP, ICMP
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
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

Serial Interface

Connector	DE-211: DB25 female DE-311: DB9 female
Serial Standards	RS-232, RS-422, RS-485

No. of Ports	1
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
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None, RTS/CTS, 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-, RTS+, RTS-, CTS+, CTS-, GND
RS-485-2w	Data+, Data-, GND

Power Parameters

Input Current	DE-211: 180 mA @ 12 VDC, 100 mA @ 24 VDC DE-311: 300 mA @ 9 VDC, 150 mA @ 24 VDC
Input Voltage	DE-211: 12 to 30 VDC DE-311: 9 to 30 VDC

Reliability

Alert Tools	Built-in buzzer and RTC (real-time clock)
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Physical Characteristics

Housing	Metal
Dimensions (with ears)	90.2 x 100.4 x 22 mm (3.55 x 3.95 x 0.87 in)
Dimensions (without ears)	67 x 100.4 x 22 mm (2.64 x 3.95 x 0.87 in)
Weight	480 g (1.06 lb)

Environmental Limits

Operating Temperature	0 to 55°C (32 to 131°F)
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

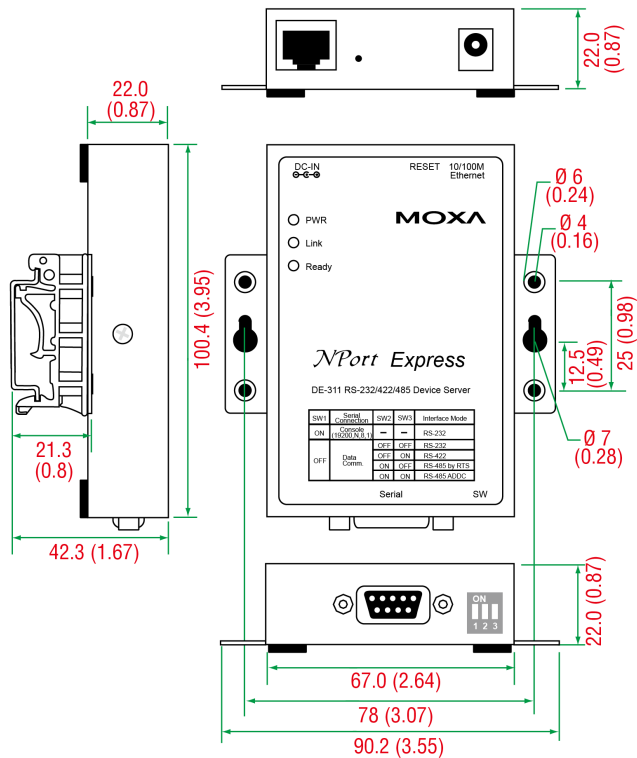
EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-11

Safety	UL 60950-1
Medical	DE-311: EN 55011: 2007+A2: 2007 Class A (Group 1) compliant DE-311: EN 60601-1-2: 2007 compliant
Declaration	
Green Product	RoHS, CRoHS, WEEE
MTBF	
Time	DE-211: 347,822 hrs DE-311: 225,529 hrs
Standards	MIL-HDBK-217F
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty
Package Contents	
Device	1 x NPort Express Series device server
Power Supply	1 x power adapter, universal
Documentation	1 x quick installation guide 1 x warranty card

尺寸

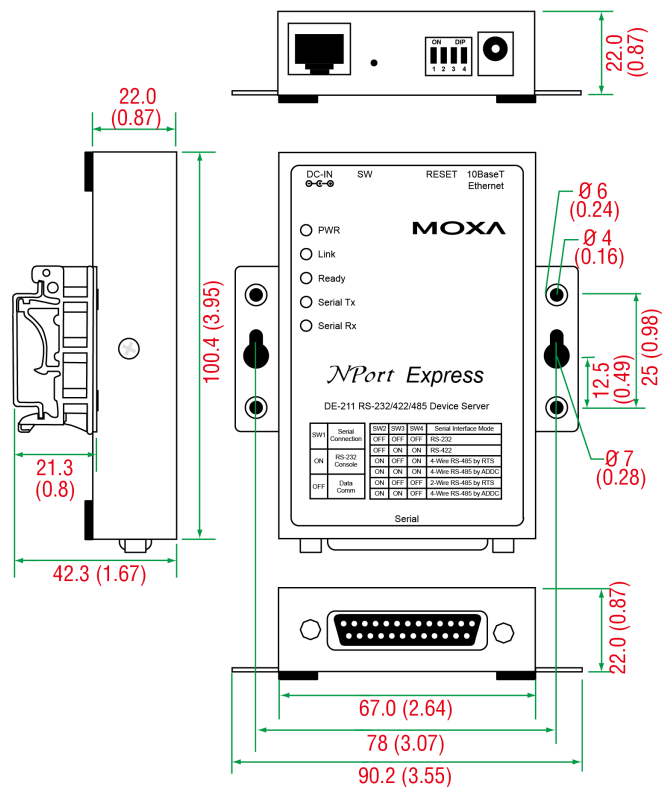
NPort DE-311

單位：公釐 (英吋)



NPort DE-211

單位：公釐 (英吋)



訂購資訊

Model Name	Ethernet Port Speed	Serial Connector	Power Input	Medical Certifications
DE-211	10 Mbps	DB25 female	12 to 30 VDC	–
DE-311	10/100 Mbps	DB9 female	9 to 30 VDC	EN 60601-1-2 Class B, EN 55011

配件 (選購)

DIN-Rail Mounting Kits

DK35A	DIN-rail mounting kit, 35 mm
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Power Adapters

PWR-12050-EU-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature
PWR-12050-UK-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature
PWR-12050-CN-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature
PWR-12050-AU-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature
PWR-12050-USJP-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature

Terminal Blocks

TB-M25	DB25 male DIN-rail wiring terminal Applicable Models: DE-211
TB-M9	DB9 male DIN-rail wiring terminal Applicable Models: DE-311

Cables

NP21103	DB25 male to terminal block for RS-422/485 transmission Applicable Models: DE-211
NP21102	DB25 male to DB9 male cable for RS-232 transmission, 30 cm Applicable Models: DE-211
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m Applicable Models: DE-311
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm Applicable Models: DE-311
NP21101	DB25 male to DB9 female cable for RS-232 transmission, 30 cm Applicable Models: DE-211

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