

CN2600 系列

具備雙網路備援 8 埠及 16 埠 RS-232/422/485 終端機伺服器



特色與優點

- 液晶面板可輕鬆設定 IP 位址 (不包括寬溫範圍型號)
- 具有兩個獨立 MAC 位址和 IP 位址的雙網卡
- 啟動雙網卡時可使用備援 COM 功能
- 雙主機備援功能，可在系統中加入備用電腦
- 雙交流電源輸入 (僅適用於 AC 型號)
- 用於 Windows、Linux 及 macOS 的 Real COM/TTY 驅動程式
- 通用高電壓範圍：100 至 240 VAC 或 88 至 300 VDC

認證

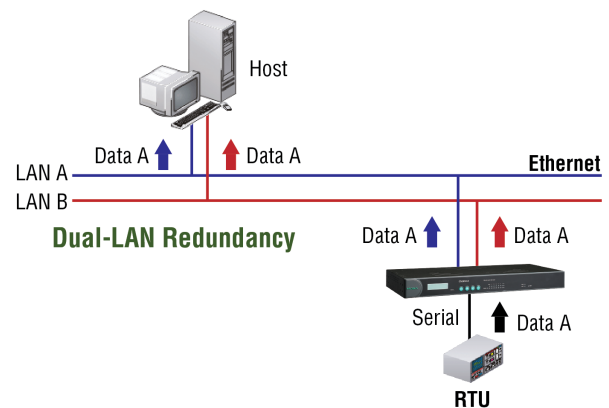


簡介

備援是工業網路的重要問題，已開發各種類型的解決方案，以便在設備或軟體故障發生時提供替代網路路徑。安裝「Watchdog」硬體可用來提供硬體備援，而「Token」切換機制則應用於軟體。CN2600 終端機伺服器使用內建的雙區域網路連接埠，實施「備援 COM」模式，讓您的應用程式不受干擾。

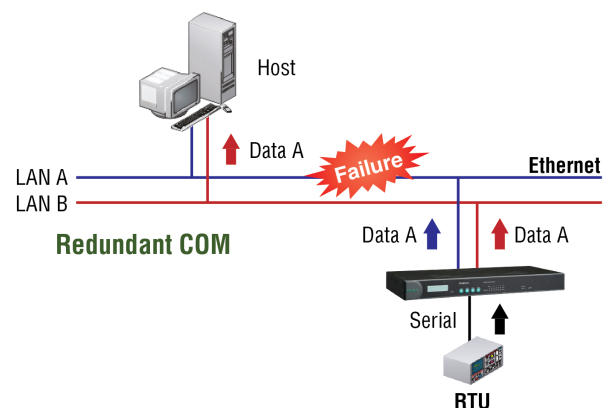
雙區域網路備援

CN2600 包含兩個獨立 LAN 連接埠，可以連接到單獨的區域網路。雙區域網路備援需要設定兩個獨立的實體網路，連線 PC 主機及 CN2600 (PC 主機也需要兩張 LAN 卡)。如果其中一個連線失敗，PC 主機仍然可以透過替代 LAN 連線與您的串列裝置通訊。



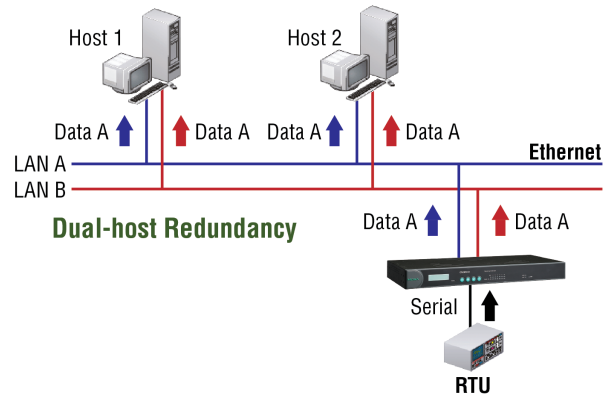
Redundant COM

Moxa 提供「Redundant COM」，這是個易用的應用程式，為網路備援提供替代解決方案。當 CN2600 從連線裝置接收資料封包時，會透過兩個獨立的 LAN 連線傳送兩個相同的資料封包，以避免在一個 LAN 連線無法使用時遺失資料封包。CN2600 軟體經過程式設計，可自動捨棄重複的資料封包。



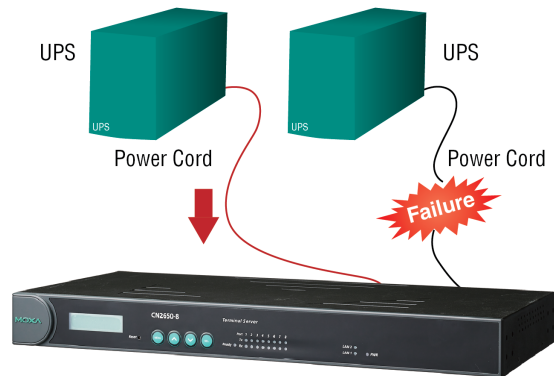
雙主機備援

CN2600 的雙區域網路卡也可以用來設定「雙主機」備援。在這種情況下，網路（圖中的區域網路 A 和區域網路 B）連線兩個不同的主機。如果兩台主機中的任一主機意外關機，則另一台主機仍然可以與連接到 CN2600 的序列裝置進行通訊。

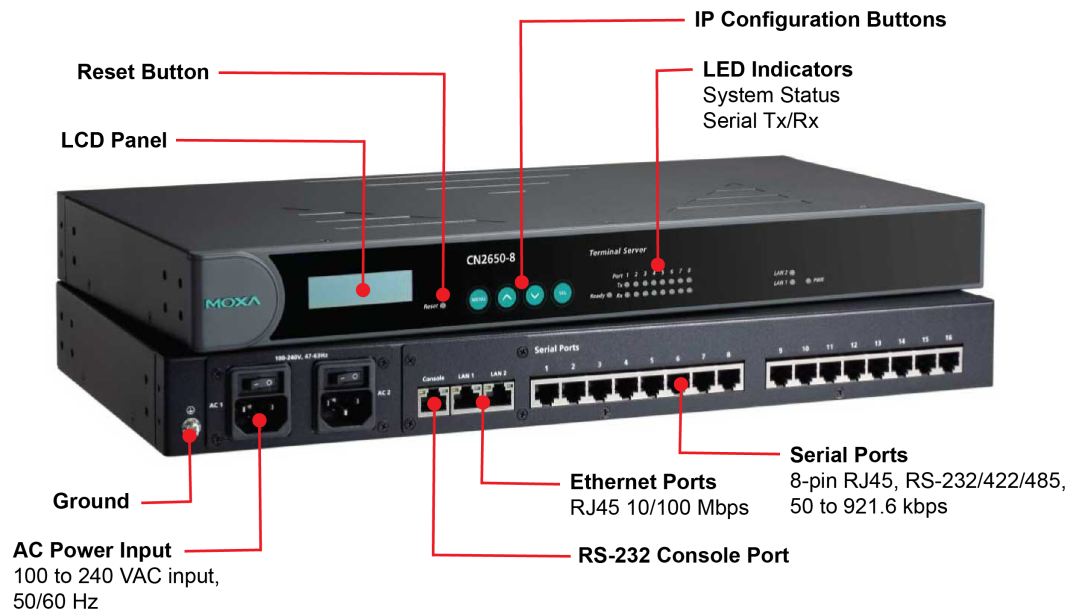


支援雙 AC 型號

雙電源備援使用兩個電源輸入及備援內部電源供應器，確保隨時提供 CN2600 的所有功能，即使在電源電路故障時也能使用。



外觀



規格

Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	2
Magnetic Isolation Protection	1.5 kV (built-in)

Ethernet Software Features

Configuration Options	CN2610-8/CN2610-16 models: Serial Console, Telnet Console, Windows Utility, Device Search Utility (DSU) CN2650-8/CN2650-16/CN2600-2AC models: Serial Console, Telnet Console, Windows Utility, Device Search Utility (DSU), Web console (HTTP/HTTPS)
Management	ARP BOOTP DDNS DHCP Client DNS HTTP IPv4 SMTP SNMPv1/v2c/v3 TCP/IP Telnet UDP ICMP SLIP
MIB	MIB-II
Security	HTTPS/SSL RADIUS SSH PAP CHAP
Unicast Routing	RIPV1/V2 Static Route
Windows Real COM Drivers	Windows 11, 10, 8.1, 8, 7, Vista, XP, ME, 98 and 95 Windows Server 2022, 2019, 2016, 2012 R2, 2012, 2008 R2, 2008, 2003, 2000 and NT Windows Embedded CE 5.0 and 6.0, Windows XP Embedded
Linux Real TTY Drivers	Kernel versions: 6.x, 5.x, 4.x, 3.x, 2.6.x and 2.4.x
Fixed TTY Drivers	macOS versions: 14, 13, 12, 11 and 10.1x SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X
Virtual Machine	VMWare ESXi (Windows 11 / 10) VMware Fusion (Windows on macOS 14, 13, 12, 11 and 10.1x) Parallels Desktop (Windows on macOS 14, 13, 12, 11 and 10.1x)
Arm®-based Platform Support	Windows 11 Linux Kernel 6.x, 5.x and 4.x macOS 14, 13, 12 and 11
Android API	Android 3.1.x and later

Security Functions

Authentication	Local database (password only) RADIUS
Encryption	HTTPS AES-128 AES-256 HMAC RSA-1024 SHA-1
Security Protocols	SNMPv3 SSHv2

Serial Interface

Connector	CN2610/CN2650 models: 8-pin RJ45 CN2650I models: DB9 male
No. of Ports	CN2600-8 models: 8 CN2600-16 models: 16
Serial Standards	CN2610 models: RS-232 CN2650 models: RS-232/422/485
Operation Modes	Real COM mode TCP Server mode TCP Client mode UDP mode RFC2217 mode Terminal mode Reverse Telnet mode PPP mode DRDAS mode Redundant COM mode Disabled
Baudrate	50 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None Even Odd Space Mark
Flow Control	None RTS/CTS DTR/DSR XON/XOFF
Isolation	CN2650I models: 2 kV Note: Each serial port has 2-kV Isolation. So, if one of them is disabled because of a surge, other ports are not affected ensuring that the device works without any drops.
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (19200, n, 8, 1)

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	-2AC models: 2 All other models: 1
Input Current	-HV models: 200 mA @ 88 VDC All other models: 130 mA @ 110 VAC
Input Voltage	-HV models: 110 VDC (88 to 300 VDC) All other models: 100 to 240 VAC, 50/60 Hz

Reliability

Automatic Reboot Trigger	Built-in WDT
Alert Tools	Built-in buzzer and RTC (real-time clock)

Physical Characteristics

Housing	Metal
Installation	19-inch rack mounting
Dimensions (with ears)	480 x 198 x 45.5 mm (18.9 x 7.80 x 1.77 in)
Dimensions (without ears)	440 x 198 x 45.5 mm (17.32 x 7.80 x 1.77 in)
Weight	CN2610-8/CN2650-8: 2,410 g (5.31 lb) CN2610-16/CN2650-16: 2,460 g (5.42 lb) CN2610-8-2AC/CN2650-8-2AC/CN2650-8-2AC-T: 2,560 g (5.64 lb) CN2610-16-2AC/CN2650-16-2AC/CN2650-16-2AC-T: 2,640 g (5.82 lb) CN2650I-8: 3,907 g (8.61 lb) CN2650I-16: 4,046 g (8.92 lb) CN2650I-8-2AC: 4,284 g (9.44 lb) CN2650I-16-2AC: 4,423 g (9.75 lb) CN2650I-8-HV-T: 3,848 g (8.48 lb) CN2650I-16-HV-T: 3,987 g (8.79 lb)

Environmental Limits

Operating Temperature	Standard models: 0 to 55°C (32 to 131°F) CN2650-8-2AC-T/CN2650-16-2AC-T models: -40 to 75°C (-40 to 167°F) CN2650I-8-HV-T/CN2650I-16-HV-T models: -40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	Standard Models: 0 to 55°C (32 to 131°F) CN2650-8-2AC-T/CN2650-16-2AC-T models: -40 to 75°C (-40 to 167°F) CN2650I-8-HV-T/CN2650I-16-HV-T models: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	CN2650I models: EN 55032/35 All other models: EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	-HV models: 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: 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: 3 V/m IEC 61000-4-8 PFMF All other models:

	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: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2.5 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11
International Approval	CN2650-16-2AC models: KC
Safety	CN2650I models: UL 62368-1 All other models: UL 60950-1
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-32

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	CN2610-8: 831,925 hrs CN2610-16: 639,332 hrs CN2610-8-2AC/CN2650-8-2AC: 773,268 hrs CN2610-16-2AC: 604,346 hrs CN2650-8: 657,123 hrs CN2650-16: 457,175 hrs CN2650-16-2AC: 442,699 hrs CN2650I-8: 374,652 hrs CN2650I-8-2AC: 370,752 hrs CN2650-8-2AC-T: 190,562 hrs CN2650I-16: 248,847 hrs CN2650I-16-2AC: 247,119 hrs CN2650-16-2AC-T: 115,887 hrs CN2650I-8-HV-T: 357,995 hrs CN2650I-16-HV-T: 241,404 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

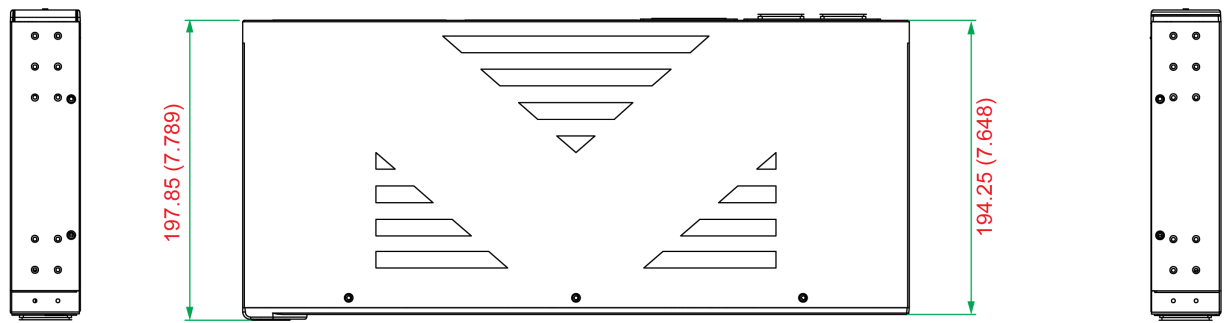
Package Contents

Device	1 x CN2600 Series terminal server
Installation Kit	1 x rack-mounting kit
Cable	1 x RJ45-to-DB9 console cable 1 x power cord, suitable for your region (CN2610/CN2650 models) 2 x power cords, suitable for your region (CN2600-2AC models)
Documentation	1 x quick installation guide 1 x warranty card

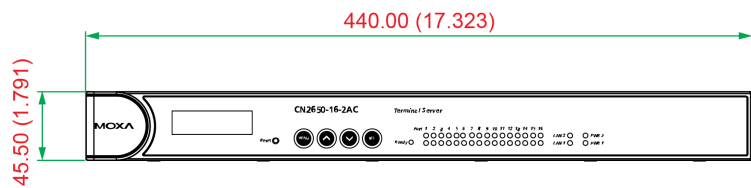
尺寸

單位：公釐（英吋）

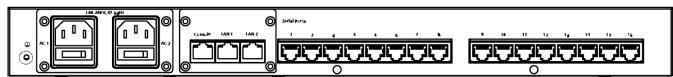
Top and Side Views



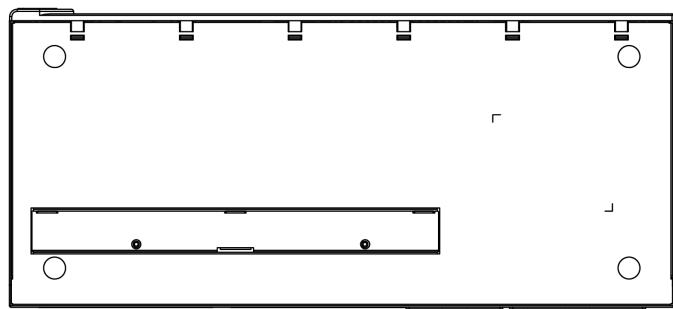
Front View



Rear View



Bottom View



訂購資訊

Model Name	Serial Standards	No. of Serial Ports	Serial Connector	Isolation	No. of Power Inputs	Power Input	Operating Temp.
CN2610-8	RS-232	8	8-pin RJ45	–	1	100-240 VAC	0 to 55°C
CN2610-16	RS-232	16	8-pin RJ45	–	1	100-240 VAC	0 to 55°C
CN2610-8-2AC	RS-232	8	8-pin RJ45	–	2	100-240 VAC	0 to 55°C
CN2610-16-2AC	RS-232	16	8-pin RJ45	–	2	100-240 VAC	0 to 55°C
CN2650-8	RS-232/422/485	8	8-pin RJ45	–	1	100-240 VAC	0 to 55°C
CN2650-16	RS-232/422/485	16	8-pin RJ45	–	1	100-240 VAC	0 to 55°C
CN2650-8-2AC	RS-232/422/485	8	8-pin RJ45	–	2	100-240 VAC	0 to 55°C
CN2650-8-2AC-T	RS-232/422/485	8	8-pin RJ45	–	2	100-240 VAC	-40 to 75°C

Model Name	Serial Standards	No. of Serial Ports	Serial Connector	Isolation	No. of Power Inputs	Power Input	Operating Temp.
CN2650-16-2AC	RS-232/422/485	16	8-pin RJ45	–	2	100-240 VAC	0 to 55°C
CN2650-16-2AC-T	RS-232/422/485	16	8-pin RJ45	–	2	100-240 VAC	–40 to 75°C
CN2650I-8	RS-232/422/485	8	DB9 male	2 kV	1	100-240 VAC	0 to 55°C
CN2650I-16	RS-232/422/485	16	DB9 male	2 kV	1	100-240 VAC	0 to 55°C
CN2650I-8-2AC	RS-232/422/485	8	DB9 male	2 kV	2	100-240 VAC	0 to 55°C
CN2650I-16-2AC	RS-232/422/485	16	DB9 male	2 kV	2	100-240 VAC	0 to 55°C
CN2650I-8-HV-T	RS-232/422/485	8	DB9 male	2 kV	1	88-300 VDC	–40 to 85°C
CN2650I-16-HV-T	RS-232/422/485	16	DB9 male	2 kV	1	88-300 VDC	–40 to 85°C

配件（選購）

Cables

CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-RJ45M25-150	8-pin RJ45 to DB25 male serial cable, 1.5m
CBL-RJ45SF25-150	8-pin RJ45 to DB25 female serial cable with shielding, 1.5m
CBL-RJ45F25-150	8-pin RJ45 to DB25 female serial cable, 1.5 m
CBL-RJ45M9-150	8-pin RJ45 to DB9 male serial cable, 1.5m
CBL-RJ45SM9-150	8-pin RJ45 to DB9 male serial cable with shielding, 1.5m
CBL-RJ45SF9-150	8-pin RJ45 to DB9 female serial cable with shielding, 1.5m
CBL-RJ45SM25-150	8-pin RJ45 to DB25 male serial cable with shielding, 1.5m
CBL-RJ45F9-150	8-pin RJ45 to DB9 female serial cable, 1.5m
CBL-RJ458P-Cisco-BK-180	8-pin RJ45 to 8-pin RJ45 serial cable, 1.8 m, for Cisco console port

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
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Power Cords

PWC-C13AU-3B-183	Power cord with AU plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong CN plug, 1.83 m
PWC-C13EU-3B-183	Power cord with EU/KR plug, 1.83 m
PWC-C13JP-3B-183	Power cord with JP plug plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with UK plug, 1.83 m
PWC-C13US-3B-183	Power cord with US plug, 1.83 m

Rack-Mounting Kits

WK-45-01	Rack-mounting kit, 2 L-shaped plates, 8 screws, 45 x 57 x 2.5 mm
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