

CN2510 Series

8 and 16-port RS-232 Terminal Servers



Features

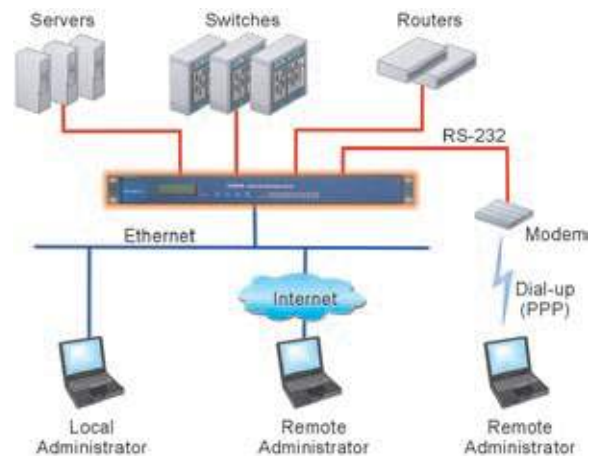
- > LCD control panel for easy on-site management
- > Up to 16 dial-in users when operating as stand-alone remote access server
- > PPP/SLIP with RADIUS authentication and RIP I/II routing protocol
- > Real COM/TTY drivers for Windows and Linux
- > ±48 VDC for telecom applications



Remote Console Management

For most companies, the performance of IT equipment is critical to daily operation. To keep a server, router, PBX, or leased-line modem working properly, it is important to minimize downtime and troubleshoot faulty devices quickly. KVM is commonly used for in-band management of devices that are equipped with a screen and keyboard. However, RS-232 console access is often used as a last resort for all devices.

The CN2510 provides an easy console management solution in a convenient 1U rackmount package. With its RS-232 ports, connections are easily established to the console ports of network equipment, such as Unix servers or routers, for centralized management of the attached devices. Each device's RS-232 console port becomes a network-accessible node, giving users Telnet access from anywhere on the network for configuration and management of the device. Full modem control signals are supported, ensuring compatibility with a wide range of serial peripherals.



Security Functions

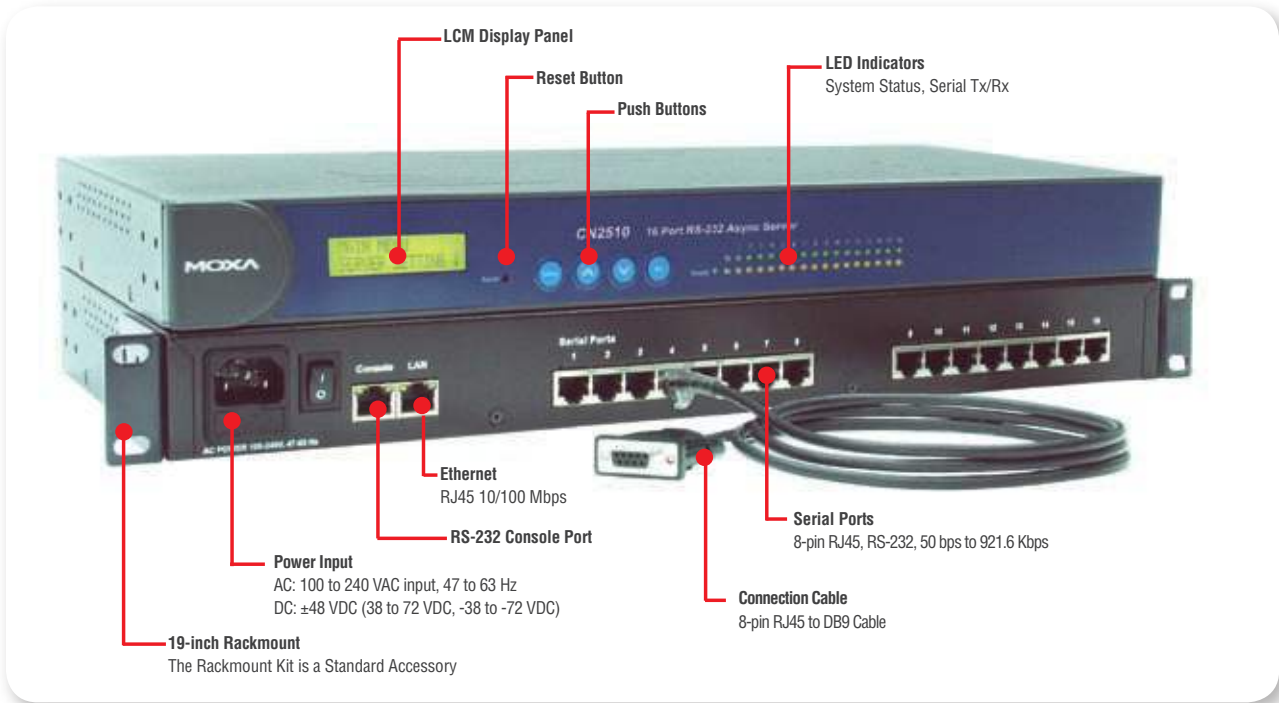
User Authentication

It is very important that access is strictly controlled in a console management solution, and user privileges should be validated before a console port connection is allowed. The CN2510's authentication procedure involves verifying the username and password against an internal database or a RADIUS server.

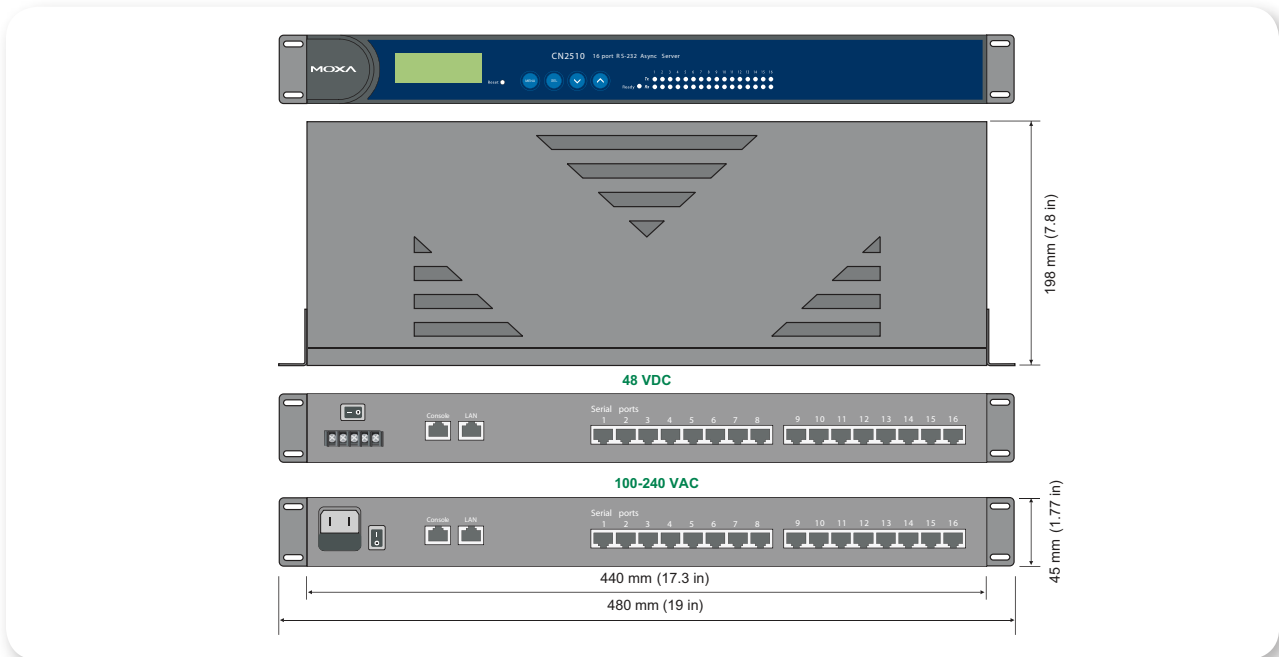
Dial-back

When a dial-up connection is used for out-of-band management, the CN2510 provides a convenient dial-back function. Instead of accepting a connection request directly, the CN2510 calls back the management host to establish the connection. The dial-back function helps ensure that only registered users or hosts can remotely connect to the network through the CN2510. It also helps consolidate long distance phone costs.

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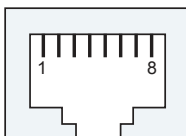


Dimensions (unit = mm)



Pin Assignment

RJ45 RS-232 Port



Pin	Signals
1	DSR (in)
2	RTS (out)
3	GND
4	TxD (out)

Pin	Signals
5	RxD (in)
6	DCD (in)
7	CTS (in)
8	DTR (out)

Specifications

Hardware

CPU: 32-bit RISC

RAM: 4 MB

Flash ROM: 2 MB

I/O Controller: 16C550C compatible UART

LAN

Protection: Built-in 1.5 KV magnetic isolation

No. of Ports: 1

Speed: 10/100 Mbps

Serial

Interface: RS-232, 8-pin RJ45

No. of Ports: 16 ports (CN2510-16), 8 ports (CN2510-8)

Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Console Port: 1 RS-232 console port (8-pin RJ45)

Serial Line Protection: 15 KV ESD for all signals

Power Line Protection

1 KV Burst (EFT), EN61000-4-4

0.5 KV Surge, EN61000-4-5

Serial Communication Parameters

Parity: None, Even, Odd, Space, Mark

Data Bits: 5, 6, 7, 8

Stop Bit(s): 1, 1.5, 2

Flow Control: RTS/CTS, XON/XOFF

Speed: 50 bps to 921.6 Kbps

Software

Protocols: TCP/IP, UDP, ICMP, NetBUEI, DHCP, PPP, SLIP, CSLIP

Applications: Telnet, rlogin, rtelnet, DNS, LPD, RCP, WINS, Dial-on-Demand

Security: RADIUS, dialback, PAP, CHAP, local user / password

Management: SNMP MIB-II

IP Routing: Static, RIP-I, RIP-II.

Software Features

Utilities: Utility for Windows 95/98/ME/NT/2000/XP/2003

OS Driver Support: Windows 95/98/ME/NT/2000/XP/2003/XP x64/
2003 x64 COM driver, Linux real TTY driver, SCO
Unix, SCO OpenServer 5, UnixWare 7, UnixWare
2.1.x, SVR4.2

Fixed TTY Driver: SCO OpenServer 5, SCO Unixware 7.x, QNX

Real TTY Driver: Linux (kernel 2.2.x, 2.4.x, 2.6.x)

MOXA ASPP: Windows 9x/NT/ME/2K/XP/2003, Linux, UNIX

Socket: Standard BSD socket interface

Applications

Terminal Sessions: 8 sessions per port

Power Requirements

Power Input: AC: 100 to 240 VAC, 47 to 63 Hz

DC: ±48 VDC (38 to 72 VDC, -38 to -72 VDC)

Power Consumption: CN2510-8/16: 235 mA for 100V, 145 mA for 240V

CN2510-8/16-48V: 260 mA (at 48V max.)

Environment

Operating Temperature: 0 to 55°C (32 to 131°F), 5 to 95% RH

Storage Temperature: -20 to 70°C (-4 to 158°F), 5 to 95% RH

Gross Weight CN2510-8: 3580g
CN2510-8-48: 3340g
CN2510-16: 3600g
CN2510-16-48: 3400g

Dimensions

440 x 198 x 45 mm (17.3 x 7.8 x 1.77 in)

Regulatory Approvals

EMC:

CE: EN55022 Class A / EN55024

FCC: FCC part 15 subpart B, Class A

Safety:

UL: UL60950

TÜV: EN60950

Warranty: 5 years

MTBF:

CN2510-8: 1346703 hours

CN2510-16: 101349 hours

Ordering Information

CN2510-8: 8-port RS-232 Terminal Server

CN2510-8-48V: 8-port RS-232 Terminal Server

CN2510-16: 16-port RS-232 Terminal Server

CN2510-16-48V: 16-port RS-232 Terminal Server

Optional Accessories

Power Cord: See page 12-10

Serial Cable & Serial Adapter: See page 12-4

Package Checklist

- 1 CN2510
- Quick Installation Guide
- Document and Software CD-ROM
- Power Cord x 1 (AC model only)
- CBL-RJ45F9-150 x 1
- CBL-RJ45M25-150 x 1