



CN2600 Series Quick Installation Guide

Fifth Edition, August 2015

Overview

The Moxa CN2600 dual-LAN terminal servers have 8 or 16 RS-232 or RS-232/422/485 ports and dual 10/100 Mbps Ethernet LAN ports, and some models come with dual AC power inputs. The CN2600 terminal servers are used to connect terminals, modems, printers, and other serial devices to LAN hosts, and all models comply with TCP/IP and IEEE 802.3 specifications using standard twisted pair 10/100BaseTX cable as the transmission medium.

CN2600 Series Models

The CN2600 Series includes the following models: CN2610-8, CN2610-8-2AC, CN2610-16, CN2610-16-2AC, CN2650-8, CN2650-8-2AC-T, CN2650-8-2AC, CN2650-16, CN2650-16-2AC-T, CN2650-16-2AC, CN2650I-8, CN2650I-8-2AC, CN2650I-16, CN2650I-16-2AC, CN2650I-8-HV-T, CN2650I-16-HV-T.

Package Checklist

The CN2600 dual-LAN terminal server products are shipped with the following items:

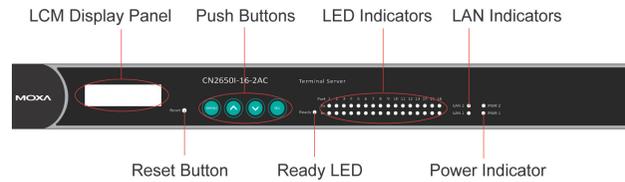
- 1 CN2600 series terminal server
- Power cord (AC models only)*
- 1 DB9 serial cable (CBL-RJ45F9-150)
- 1 DB25 serial cable (CBL-RJ45M25-150)
- Rackmount kit (includes 2 brackets and 8 screws)
- Quick installation guide (this guide)
- Documentation and software CD-ROM

*Power cords are available with US, Euro, UK, and JP plugs.

Hardware Introduction

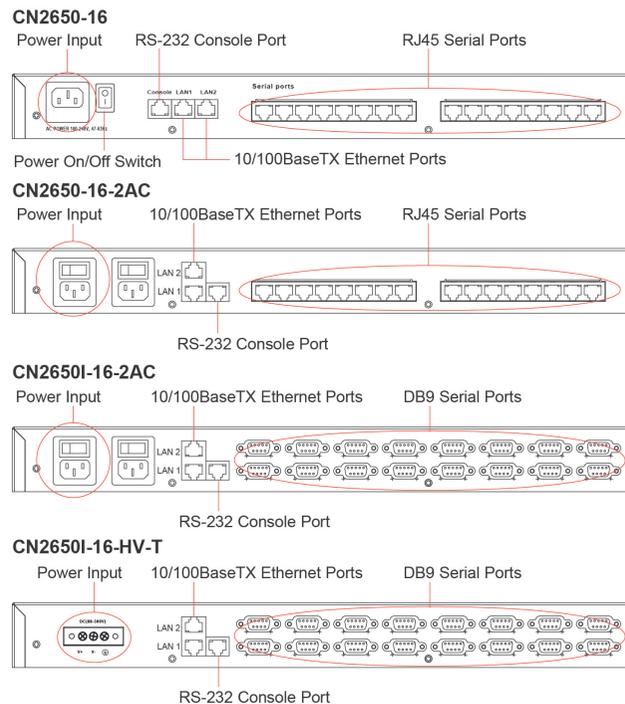
NOTE The wide temperature models do not come with the LCM display panel and push buttons. The LCM description below applies only to standard temperature models.

Front Panel



LED	Color	Description
Reset	None	Press the Reset button for 5 seconds to load factory defaults. The CN2600 will beep twice when the configuration has been reset.
Ready	Red	Used for configuring the IP address and other parameters.
	Green	Lights up when the CN2600 system is ready.
Serial Tx	Green	Flashes to indicate serial port transmission.
Serial Rx	Yellow	Flashes to indicate serial port reception.

Rear Panel



LCM Display

If the CN2600 is working properly, the LCM panel will display a green color. The red Ready LED will also light up, indicating that the CN2600 is receiving power. After the red Ready LED turns to green, you will see a display similar to the following: (Example)

```
C N 2 6 1 0 - 1 6 _ 3
1 9 2 . 1 6 8 . 1 2 7 . 2 5 4
```

CN2610-16: The CN2610's name
03: The CN2610's local sequence number
192.168.127.254: The CN2610's IP address

There are four push buttons on the CN2600 nameplate:

Button	Name	Action
MENU	menu	Activates the main menu, or returns to an upper level.
▲	up cursor	Scrolls up through a list of items shown on the LCM panel's second line.
▼	down cursor	Scrolls down through a list of items shown on the LCM panel's second line.
SEL	select	Selects the option listed on the LCM panel's second line.

Use the buttons to access the CN2600's function menus. As you move through the functions and settings, the top line shows the current menu or submenu name, and the bottom line shows the submenu name or menu item. Press the SEL button to access the item displayed on the bottom line.

Refer to CN2600 series User's Manual for more details.

Hardware Installation

Installing the CN2600

Open the package and attach the CN2600 to a desktop, or fasten it to the rack cabinet.

Wiring Requirements

1. Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.
2. NOTE: Do not run signal or communication wiring and power wiring in the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.
3. Where necessary, we strongly advise labeling wiring to all devices in the system.

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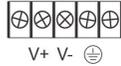


Connecting the Power

AC: Connect the CN2600 100-240 VAC power line with its AC connector. If the power is properly supplied, the “Ready” LED will show a solid red color until the system is ready, at which time the “Ready” LED will change to a green color.

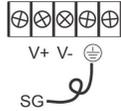
DC: Connect the NPort CN2650I-HV’s power cord to the DC connector, and then follow the steps given below:

Take the CN2650I-8-HV-T as an example. Loosen the screws on the V+ and V- terminals of the CN2650I-8-HV-T terminal block. Connect the power cord’s 100 VDC wire to the terminal block’s V+ terminal, and the power cord’s DC Power Ground wire to the terminal block’s V- terminal, and then tighten the terminal block screws. (Note: The CN2650I-8-HV-T can still operate even if the DC Power Ground wires are reversed.) The “Ready” LED will show a solid red color until the system is ready, at which time it will change to a green color.



Grounding the CN2650I-HV:

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices. The Shielded Ground (sometimes called Protected Ground) contact is the second contact from the right of the 5-pin power terminal block connector located on the rear panel of the CN2650I-8-HV-T. Connect the SG wire to the Earth ground.



Connecting to the Network

Use an Ethernet cable to connect the CN2600 to the Ethernet network. There are 2 LED indicators located on the top left and right corners of the Ethernet connector. If the cable is properly connected, the CN2600 will indicate a valid connection to the Ethernet in the following ways:



The top right corner LED indicator maintains a solid green color when the cable is properly connected to a 100 Mbps Ethernet network.



The top left corner LED indicator maintains a solid orange color when the cable is properly connected to a 10 Mbps Ethernet network.

Connecting to a Serial Device

Connect the serial data cable between the CN2600 and the serial device.

Connecting to a Console

A console is a combination of keyboard and monitor, and is used to configure settings and to monitor the status of your system. If you do not have a network environment, use a terminal, a PC running UNIX, or a PC with terminal emulation software (e.g., HyperTerminal in Windows; PComm by Moxa). Use an RJ45-to-DB25 or RJ45-to-DB9 cable to connect the terminal to the console socket. Refer to the CN2600 User’s Manual for more details.

Software Installation

Entering the Console Utility

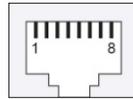
The Console Utility is the main application needed to set up the server/port configuration, and to execute utilities such as ping, diagnosis, monitor, and upgrade. There are two ways to enter the Console Utility. One is to use terminal emulation through a console terminal, and the other is to telnet from a network terminal.

Refer to the CN2600 User’s Manual for more details.

Pin Assignments and Cable Wiring

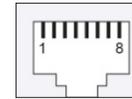
10/100BaseTX Port Pinouts

Pin	Signal
1	Tx+
2	Tx-
3	Rx+
6	Rx-



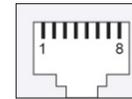
Console Port Pinouts

Pin	RS-232
1	DSR (in)
2	RTS (out)
3	GND
4	TxD (out)
5	RxD (in)
6	DCD (in)
7	CTS (in)
8	DTR (out)



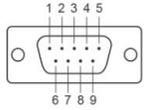
RJ45 RS-232/422/485 Port

Pin	RS-232	RS-422/ RS-485-4w	RS-485-2w
1	DSR (in)	–	–
2	RTS (out)	TxD+	–
3	GND	GND	GND
4	TxD (out)	TxD-	–
5	RxD (in)	RxD+	Data+
6	DCD (in)	RxD-	Data-
7	CTS (in)	–	–
8	DTR (out)	–	–



DB9 (male) RS-232/422/485 Port

Pin	RS-232	RS-422/ RS-485-4w	RS-485-2w
1	DCD	TxD-(A)	–
2	RxD	TxD+(B)	–
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–
9	–	–	–



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