

cnReach™ Terminal Server



The cnReach Terminal Server delivers serial to Ethernet conversion enabling the addition or integration of serial connectivity to any wired or wireless TCP/IP network. In addition to serial connectivity, the terminal server supports MODBUS polling at the edge that can be published via MQTT. Finally, the cnReach Terminal Server is managed with cnMaestro providing a single pane of glass management across the network.

- Add Serial to TCP/IP conversion on any wireless or wired broadband network
- Single Pane of Glass Management
- Monitor/Configure devices remotely using cnMaestro
- Flexible configuration enables integration with most serial-based devices in the field today
- Integrated MODBUS TCP to MODBUS RTU Conversion
- Supports TCP or UDP traffic and Server or Client modes
- Daisy-chain multiple units to add more serial ports
- MQTT Publish/Subscribe Integration
- Reduce traffic by up to 90% vs. traditional polling
- Make data available across entire organization
- Integrated local MODBUS Polling at the edge
- Data Concentrator applications to reduce polling
- PLC Local Logic to add intelligence at the edge

PRODUCT	PRODUCT DESCRIPTION	MODEL NUMBER GLOBAL
Terminal Server	cnReach Terminal Server	NB-N500082A-US
Optional Accessories	N500 Power Connector, Spare	NB-N500002A-US
	Power Supply, AC to 24 VDC, DIN Rail Mount	NB-N500013A-GL
	N500 AC to 24 VDC Power Supply with US line cord	NB-N500006B-US
	N500 AC to 24 VDC Power Supply (no line cord)	NB-N500011B-GL

SPECIFICATIONS

MANAGEMENT

	Web-based Interface via HTTP/HTTPS
	Remote Management via SNMP
	User Login Authentication using RADIUS
	cnMaestro integration
	Support for configuration files, remote software upgrades

DATA CAPABILITIES

Packet handling	Layer 2 bridge and/or Layer 3 static routes VLAN support
Modes	TCP Terminal Server, TCP Terminal Client, UDP Terminal, Multicast Terminal
Other	MODBUS Bridge (MODBUS TCP to MODBUS RTU conversion) Data Concentrator (converges data from multiple MODBUS sources into single polling MODBUS map) MQTT (publish/subscribe data); Sparkplug B compliant

INTERFACES

Ethernet Interfaces	2 x RJ-45 10/100BaseT, Full Duplex, rate auto negotiated (802.3 compliant)
Serial Interfaces	2 x RJ-45 RS-232/422/485, up to 230.4 kbps

POWER

Input	10-32VDC with reverse polarity protection
Power Consumption	293 mA

PHYSICAL

Dimensions	5.5" x 3.5" x 1.5" (140 mm x 89 mm x 38 mm)
Weight	0.55 lbs. (0.25 kg)
DIN Rail Mount	Included

ENVIRONMENTAL

Operating Temperature	-40 C to +85 C (-40 F to 185 F)
Humidity	95% operating humidity @ 40C non-condensing
HAZLOC	Pending Approval to UL Class 1 / Div 2

REGULATORY

Safety	UL Approved CE Mark
EMC	FCC Part 15 CE Mark