



NB-N500441A-EU

Cambium cnReach N500 450MHz Dual Radio with IO - ETSI RED

Ethernet Speed

100Mbps

Integrated PoE

PoE (non standard)

Wireless Standards

802.11 (Proprietary)

Stock Level: **Product in stock**

\$3,395.00 + GST

Description

Cambium cnReach N500 450 MHz Dual Radio with IO - ETSI RED. For outdoor critical infrastructure operations, cnReach transports process monitoring and control data from remote sensors or RTU/PLC's back to the operations center supporting real-time automated decision making and on-going analytics. Covering large geographic areas, hard to reach terrain and challenging spectrum environments, cnReach delivers reliable, secure connectivity to the petrochemical, electric utility, water/wastewater/stormwater and transportation industries. cnReach eases the migration to modern networks by combining legacy serial and analog/digital I/O with TCP/IP and Ethernet connectivity. Fully integrated into a 'single pane-of-glass' management platform (cnMaestro™), cnReach helps bridge the IT/OT sides of complex organizations. Combining cnReach's licensed and unlicensed narrow-band radios with Cambium Networks' broadband technologies, industrial organizations are delivering end-to-end Industrial Internet of Things solutions today.

Features

Licensed 450 MHz (406-470 MHz); ETSI RED Compliant w/ CE Mark (also available in an FCC model)

Up to 8W transmit (39 dBm)

Point-to-point, Point-to-multipoint and Back-to-back Relay configurations (dual radios)

Secure communications with AES 128/256-bit encryption and password authentication

Highly reliable communications with access point synchronization and adaptive modulation

Single and dual radio configurations for advanced back-to-back relay topologies

Extensive I/O capabilities easing the transition from serial to all-IP networks with two serial ports, two Ethernet ports and optional analog/digital I/O built-in.

Sophisticated network planning with LINKPlanner, a no-charge planning tool enabling network designers to predict both capacity and availability of networks crossing all of Cambium's technologies.

Supported by cnMaestro software for monitoring the status of entire networks

Specifications

Details

Product Code	NB-N500441A-EU
Deployment Topologies	Point to Point (PTP), Point to Multipoint (PMP), Back-to-back Repeater (BTB) - Requires Dual Radio
Frequency Range	406-470 MHz
Output Power	100 mW to 8W (13 dBm to 39 dBm)
RF Connector	TNC
Step Size	10 mW
Modulations	BPSK / MSK / QPSK / 8PSK / 16QAM / 32QAM
Capacity*	9.6 kbps to 44 kbps RF data rate; up to 26 kbps UDP throughput in 12.5 kHz channels

Details

Channel Bandwidths	12.5 / 25 kHz (50 / 100 kHz available regulations permitting and by request)
Range	Up to 110 km / 70 miles
Error Correction	Up to 32-bit CRC, Retransmit on error
Data Encryption	128/256-bit AES
I/O and Serial Data Access	Optional I/O allows seamless integration of Modbus RTU and Modbus TCP protocols

Resources

[Manufacturer Website](#)

[Community Forum](#)

[Support & Downloads](#)

[cnMaestro Cloud Management](#)

Details