

NCL5005 Series

5.8 GHz Wireless Bridge/Router

The NCL5005 is a powerful series of 5.8 GHz bridge/routers based on OFDM technology that provides an ideal solution for point-to-point wireless backhaul or enterprise applications.

Featuring data rates up to 72 Mbps, the NCL5005 Series supports high bandwidth applications such as network backhaul, large file transfers and streaming multimedia.

Advanced OFDM technology offers the near or non-line-of-sight characteristics needed for successful wireless deployments. With increased spectral efficiency and multiple, non-overlapping channels, OFDM is more immune to multipath problems and more resistant to potential sources of interference than other wireless technologies.

The NCL5005 also features a priority queuing system to support a QoS-enabled network. Multiple queues allow higher priority traffic to jump ahead of lower priority traffic within a network to help avoid bottlenecks during peak times of network usage.



Equipped with a 400 mW (26 dBm) radio, the NCL5005 outperforms other 5.8 GHz products in its class.

Key Features

- OFDM technology delivers increased spectral efficiency, resulting in higher data rates and multiple, non-overlapping channels.
- 400 mW (26 dBm) radio and excellent receive sensitivity eliminate the need for expensive amplifiers.
- Integrated radio and high gain antenna in a weatherproof outdoor enclosure with Power over Ethernet enables quick and simple installations.
- Delivers over-the-air data rates up to 72 Mbps.
- Operates in the license-exempt 5.8 GHz ISM band.
- VLAN support for enhanced security.
- PC-based GUI, command line interface and web browser interface for programming and monitoring RF and IP network conditions.
- Built-in SNMP functionality ensures trouble-free integration and management with existing networks.
- Built-in RF network management and diagnostic tools with RSL (Receive Signal Level) monitor.

Specifications

Link Distance	NCL5805: 4 miles (6 Km), NCL5815: 15 miles (24 Km), NCL5835: 30+ miles (48+ Km)
Radio Power	NCL5805: 50 mW (17 dBm), NCL5815/5835: 400 mW (26 dBm)
Antenna Gain (Beamwidth)	NCL5800: 23 dBi (9 degrees), NCL5815/35: 26 dBi (9 degrees)
Data Rate	User selectable based on speed/distance requirements & interference environment Narrowband (20 MHz): 54, 24, 18, 12, 9, 6 Mbps Wideband (40 MHz): 72, 48, 36, 24, 18, 12 Mbps
Operating Frequency	5.725 to 5.85 GHz
Radio Modulation	OFDM – BPSK, QPSK, 16QAM, 64QAM
Center Channel Frequency	20 MHz: 5735, 5755, 5775, 5795, 5815, 5835 MHz 40 MHz: 5745, 5785, 5825 MHz
Ethernet Port	10/100BaseT, RJ45 HDX (Prioritized CSMA/CA)
Protocol Support	Transparent MAC layer bridging, IP Static Routing, RIP, RIP2, transparent VLAN (802.1q)
Power	100/240 VAC 50/60 Hz; PoE Indoor DC Injector 48 VDC, 0.8A (up to 200' CAT5 STP)
Management	HTTP Web Server, SNMP v1.2, FTP, VLAN
Security	Hardware Accelerated (wire-speed encryption with no throughput loss); Encryption: 64, 128, 152-bit AES and 128-bit WEP Authentication: MAC address-based access control
Hardware Configuration	Integrated Outdoor Unit (v-pol or h-pol mountable)
Dimensions	NCL5805/5815: 13" x 13" x 2.5" (33 x 33 x 6.4 cm) NCL5835: 18" x 18" x 3.5" (46 x 46 x 9 cm)
Weight	NCL5805: 7.5 lbs (3.4 Kg), NCL5815: 8 lbs (3.6 Kg), NCL5835: 14 lbs (6.4 Kg)
Pole Mount Adapter	2-Axis Adjustment (accommodates 1 – 3" pole diameter)
Operating Temperature	-30° to +60° C

Specifications subject to change without notice.

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