

PRODUCT DATASHEET

Wireless Multi-Client Bridge/AP/ WDS

NCB-8610

2.4&5GHz

802.11 a/b/g

54 Mbps

The Wireless High Power and High Gain Multi-Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the dual band 2.4/5 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps)/ 802.11a (5GHz, 54Mbps) wireless standards.

NCB-8610 has high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection. It also can reduce the expense of equipment in the same environment.

To protect your wireless connectivity, NCB-8610 can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication.

The MAC addresses filter lets you select exactly which stations should have access to your network.



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 26 dBm in 11b/g	Excellent output power spreads the operation distance
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
MAC address filtering (AP Mode)	Ensures secure network connection
SNMP/Telnet Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and cost savings

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

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Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

Compatibility

IEEE 802.11a/ IEEE 802.11g/ IEEE 802.11b

Power Requirements

Power Supply: 90 to 240 VDC \pm 10% (depends on different countries)
Device: 12 V/ 1A
Ethernet POE in: 36~57VDC for 802.3af

Status LEDs

LAN: Link, WLAN: Link, Power: on/off

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

RF Information

Frequency Band

802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz

802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels

11 for North America, 14 for Japan, 13 for Europe,

Receive Sensitivity (Typical)

- 5.15~5.85G(IEEE802.11a)
6Mbps@ -88dBm;

54Mbps@ -70dBm

- 2.412~2.472G(IEEE802.11g)
6Mbps@ -91dBm;
54Mbps@ -74dBm
- 2.412~2.472G(IEEE802.11b)
11Mbps@ -90dBm
1Mbps@ -95dBm

Available Transmit Power (Typical)

- 5.15~5.24 GHz(IEEE802.11a)
17dBm @6 ~ 36Mbps
16 dBm @48Mbps
15 dBm @54Mbps
- 5.26~5.35GHz(IEEE802.11a)
20dBm @6 ~ 24Mbps
18dBm @36Mbps
16 dBm @48Mbps
15 dBm @54Mbps
- 5.745~5.85GHz (IEEE802.11a)
18dBm @6 ~ 24Mbps
16dBm @36Mbps
14 dBm @48Mbps
13 dBm @54Mbps
- 2.412~2.472G(IEEE802.11g)
26dBm @6 ~ 24Mbps
23dBm @36Mbps
22 dBm @48Mbps
21 dBm @54Mbps
- 2.412~2.472G(IEEE802.11b)
Up to 26 dBm. @1, 2, 5.5 and 11Mbps

RF Connector

TNC Type (Female Reverse)

Networking

Topology

Ad-Hoc, Infrastructure

Operation Mode

Point-to-Point/ Point-to-Multipoint
Bridge/ AP/ Client Bridge/ WDS

Interface

One 10/100Mbps RJ-45 LAN Port

Security

IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTLS) Support in AP Mode
WPA/WPA2 supplicant support in Client Bridge mode
WPA2/WPA / Pre-share Key (PSK)/ AES/TKIP
MAC address filtering (AP mode)
Hide SSID in beacons

IP Auto-configuration

DHCP client/server

Management

Configuration

Web-based configuration (HTTP)
Telnet Configuration
SNMP V1

Firmware Upgrade

Upgrade firmware via web-browser

Environmental

Temperature Range

Operating: -10°C to 50°C (14°F to 132°F)
Storage: -40°C to 70°C (-40°F to 158°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

One Client Bridge/AP
One Power Adapter
One CAT5 UTP Cable
One Dual Band Antenna
One CD-ROM with User's Manual

Related Product(s)

11a/b/g High-power Wireless USB Adapter
NUB-362 (802.11b/g)
NUB-862 (802.11a/b/g)
NUB-8310 (802.11a/b/g)
11b High-power Client Bridge
2611CB3+(Deluxe)
11b Outdoor AP-Client
2611CB5+
11g Outdoor AP-Client
NOC-3220 Series
NOC-3610 Series
11g Indoor AP-Client
NCB-3220 Series

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