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) wireless standards. It's the best way to add wireless capability to your existing wired network, or to add bandwidth to your wireless installation.

To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA. The MAC address filter lets you select exactly which stations should have access to your network. With the Wireless Multi-Client Bridge/Access Point/WDS, you'll experience the best wireless connectivity available today.

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	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
Plug and Play	No driver needed, easy and quick to connect your Ethernet device to Wireless
WPA/WPA2/ 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
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. 11/16/2006

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 802.11g/ IEEE 802.11b

Power Requirements

Power Supply: 90 to 240 VDC ± 10% (depends on different countries)
Device: 12 V/ 1A

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

Orthogonal Frequency Division Multiplexing (OFDM)
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 ~ 24Mbps
17dBm @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
- IEEE802.1x Supplicant (EAP-MD5/TLS/TTLS, PEAP) support in Client Bridge Mode
- WPA /WPA2/ Pre Share KEY (PSK) with TKIP/AES
- MAC address filtering (AP only)
- 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: 0°C to 45°C (32°F to 113°F)
Storage: -40°Cto 70°C (-40°F to 158°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

One Multi-Client/AP/WDS
One Power Adapter
One CAT5 UTP Cable
One Quick Start Guide
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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