

PRODUCT DATASHEET

Wireless Multi-Client Bridge/AP/ WDS

NCB-3220

2.4 GHz

802.11 b/g

54 Mbps

The Wireless Multi-Client Bridge/Bridge Router/Access Point/WDS (wireless distribution system) operates seamlessly in the 2.4 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and faster 802.11g (2.4GHz, 54Mbps) wireless standards.

NCB-3220 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-3220 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 and IP/MAC tunneling 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	Spreads the operation distance and reduce the roaming between APs to get more stability wireless connection
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
NAT support (Client Bridge Mode)	Have routing function in client bridge
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
IP/MAC tunneling	Ensures stations' identity in back of client bridge.
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.

4/4/2006

Technical Specifications

Data Rates

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

Standards

IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Power Supply: 90 to 240 VDC \pm 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

2.400~2.484 GHz

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)

-88dBm @ 6Mbps
-70dBm @ 54Mbps

Available Transmit Power (Typical)

- 2.412~2.472G(IEEE802.11g)
Up to 26dBm @ 1~24Mbps
23dBm @ 36Mbps
21dBm @ 48Mbps
20dBm @ 54Mbps

- 2.412~2.472G(IEEE802.11b)
Up to 26dBm. @1 ~ 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
WPA2/WPA / Pre-share Key (PSK)/AES/ TKIP
MAC address filtering
Hide SSID in beacons

IP Auto-configuration

DHCP client/server

Management

Configuration

Web-based configuration (HTTP)
SNMP V1, V2c (MIBI, MIBII)

Firmware Upgrade

Upgrade firmware via web-browser

Environmental

Temperature Range

Operating: -10°C to 50°C (14°F to 122°F) for DC in
-10°C to 40°C (14°F to 104°F) for POE power supply.
Storage: -40°C to 70°C (-40°F to 158°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

One Client Bridge/ AP Unit
Power Adapter
One CAT5 UTP Cable

One 2dBi 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-8301 (802.11a/b/g)

11b High-power Client Bridge 2611CB3+(Deluxe)

11b Outdoor AP-Client 2611CB5+

Outdoor AP-Client

NOC-3220 Series (802.11b/g)
NOC-8610 Series (802.11a/b/g)

* 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.

4/4/2006