

PRODUCT DATASHEET

Wireless Outdoor Multi-Client Bridge/AP/ WDS

NOC-3220

2.4 GHz

802.11 b/g

54 Mbps

The Outdoor Wireless Multi-Client Bridge/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.

NOC-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, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2/802.1x. 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 (35dBm with 9dBi internal antenna) and High Sensitivity	Spreads the operation distance and reduce the roaming between APs to get more stability wireless connection
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
WPA2/WPA/ IEEE 802.1x Authenticator support	More Powerful data security
NAT support (Client Bridge Mode)	Have routing function in client bridge
WDS (Wireless Distribution System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
Watertight and Weatherproof (IP67)	Avoid water invaded and weather corroded for mounting in outdoor
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 Compliant)	Flexible Access Point locations and cost savings
Built-in Patch Antenna on Front Panel Housing	No additional antenna required saving hardware cost and easy to install

* 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

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

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Active Ethernet (802.3af) – 48 VDC/0.375A

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)

802.11g:
-88dBm @ 6Mbps
-70dBm @ 54Mbps

802.11b:
-92 dBm @ 1Mbps
-85 dBm @ 11Mbps

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

Antenna

9dBi Internal

Networking

Topology

Ad-Hoc, Infrastructure

Operation Mode

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

Interface

Wireless IEEE802.11b/g
One 10/100 RJ-45 port
RS232 connector

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
Serial Interface (RS-232)
TFTP

Physical

Dimensions

163.8(L)mm * 135.2(W)mm * 47.0(H)mm

Weight

1.2 Kg (2.6 lbs)

Environmental

Temperature Range

Operating: -20°C to 60°C (-4°F to 140°F) -
Storage: -40°C to 80°C (-40°F to 176°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

- Outdoor Wireless Client Bridge unit
- 48V, 0.375A AC/DC adapter with wall-plug power code
- Inline Power Injector (PoE)
- 1.8m Grounding Cable
- User's manual CD-ROM
- Wall mounting kit
- Mast mounting kit
- Waterproof kit

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 PLUS (Deluxe)

Outdoor AP-Client 2611CB5 PLUS
NOC-8610 Series (802.11a/b/g)

Indoor AP-Client
NCB-3220 series (802.11b/g)
NCB-8610 series (802.11a/b/g)

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