

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

<p>Data Rates 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps</p> <p>Standards IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u</p> <p>Compatibility IEEE 802.11g/ IEEE 802.11b</p> <p>Power Requirements Active Ethernet (802.3af) – 48 VDC/0.375A</p> <p>Regulation Certifications FCC Part 15/UL, ETSI 300/328/CE</p> <p>RF Information</p> <p>Frequency Band 2.400~2.484 GHz</p> <p>Media Access Protocol Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)</p> <p>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</p> <p>Operating Channels 11 for North America, 14 for Japan, 13 for Europe,</p> <p>Receive Sensitivity (Typical) 802.11g: -88dBm @ 6Mbps -70dBm @ 54Mbps 802.11b: -92 dBm @ 1Mbps -85 dBm @ 11Mbps</p> <p>Available transmit power (Typical)</p> <ul style="list-style-type: none"> ● 2.412~2.472G(IEEE802.11g) Up to 26dBm @ 1~24Mbps 23dBm @ 36Mbps 21dBm @ 48Mbps 20dBm @ 54Mbps ● 2.412~2.472G(IEEE802.11b) 	<p>Up to 26dBm. @1 ~ 11Mbps</p> <p>Antenna 9dBi Internal</p> <p>Networking</p> <p>Topology Ad-Hoc, Infrastructure</p> <p>Operation Mode Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS</p> <p>Interface Wireless IEEE802.11b/g One 10/100 RJ-45 port RS232 connector</p> <p>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</p> <p>IP Auto-configuration DHCP client/server</p> <p>Management</p> <p>Configuration Web-based configuration (HTTP) SNMP V1, V2c (MIBI, MIBII)</p> <p>Firmware Upgrade Upgrade firmware via web-browser Serial Interface (RS-232) TFTP</p> <p>Physical</p> <p>Dimensions 163.8(L)mm * 135.2(W)mm * 47.0(H)mm</p> <p>Weight 1.2 Kg (2.6 lbs)</p> <p>Environmental</p> <p>Temperature Range Operating: -20°C to 60°C (-4°F to 140°F) - Storage: -40°C to 80°C (-40°F to 176°F)</p>	<p>Humidity (non-condensing) 5%~95% Typical</p> <p>Package Contents</p> <ul style="list-style-type: none"> ● 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 <p>Related Product(s)</p> <p>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)</p> <p>11b High-power Client Bridge 2611CB3 PLUS (Deluxe)</p> <p>Outdoor AP-Client 2611CB5 PLUS NOC-8610 Series (802.11a/b/g)</p> <p>Indoor AP-Client NCB-3220 series (802.11b/g) NCB-8610 series (802.11a/b/g)</p>
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