

## 2.4 GHz Long Range Wireless Multi-Client Bridge/ Access Point / Repeater

Model no. NL-3054CB3 PLUS (Deluxe)



- Long Operating Range
- Easy and Quick Connect your Ethernet Device to Wireless
- Make wireless AP and Bridge mode simultaneously with WDS
- Plug & Play (no driver required)
- Flexible Access Point locations and cost savings (Power-over-Ethernet)

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant
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
Power-over-Ethernet (PoE)	Flexible Access Point locations and cost savings
WPA (TKIP/ Pre-shared key) 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 Distribution System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
MAC address filtering (AP Mode)	Ensures secure network connection
Seamless Roaming	Allows users to travel between APs without losing their network connection

General	
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 compliant
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, 2 for Spain, 4 for France
Receive Sensitivity (Typical)	-94dBm @ 1Mbps -92dBm @ 6Mbps -83dBm @ 24Mbps -92dBm @ 2Mbps -90dBm @ 9Mbps -79dBm @ 36Mbps -89dBm @ 5.5Mbps -88dBm @ 12Mbps -74dBm @ 48Mbps -86dBm @ 11Mbps -86dBm @ 18Mbps -72dBm @ 54Mbps
Available transmit power (Depend on Different Countries' Regulation)	21 $\pm$ 2dBm @1, 2, 5.5 and 11Mbps 20 $\pm$ 2dBm @6, 9, 12, 18Mbps 17 $\pm$ 2dBm @24, 36Mbps 16 $\pm$ 2dBm @48, 54Mbps
RF Connector	TNC Type (Female Reverse)
Networking Information	
Topology	Ad-Hoc, Infrastructure
Operation Mode	Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ Repeater
Interface	One 10/100Mbps RJ-45 LAN Port
Security	<ul style="list-style-type: none"> <li>• IEEE802.1x / RADIUS Client (EAP-MD5/TLS/TTLS) Support—AP Mode</li> <li>• WPA -- Wi-Fi Protected Access <ul style="list-style-type: none"> <li>• PSK (Pre share key) with 64/ 128-bit WEP Key</li> <li>• EAP-MD5/TLS/ TTLS authenticator (AP Mode) support</li> <li>• TKIP</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• MAC address filtering (WLAN)</li> <li>• Hide SSID in beacons</li> <li>• Layer 2 Isolation</li> </ul>
<b>IP Auto-configuration</b>	DHCP client/ server
<b>Management</b>	
<b>Configuration</b>	Web-based configuration (HTTP)
<b>Firmware Upgrade</b>	Upgrade firmware via Web-browser
<b>Physical</b>	
<b>Dimensions (HxWxD)</b>	125(L)mm * 108(W)mm * 31(H)mm 4.9 (L)in* 4.3(W)in * 1.2(H)in
<b>Weight</b>	350 g (0.8 lb.)
<b>Environmental</b>	
<b>Temperature Range</b>	-10°C to 45°C (14°F to 113°F) - Operating -40°C to 70°C (-40°F to 158°F) - Storage
<b>Humidity (non-condensing)</b>	5%~95% Typical

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

\*\* All specifications are subject to change without notice.

Last Updated: 07/08/2004