

# 11Mbps Wireless Building-to-Building Bridge (WLB610-N)

The SOHOware Wireless Building-to-Building Bridge links two or more separate networks (typically located in different buildings) into one single LAN environment. It delivers business class transmission rates, faster than leased E1 or T1 lines, and eliminates the need for expensive and difficult-to-install leased line or fiber-optic cable.

The WLB610-N features high interoperability, expandability, security, and manageability for top performance wireless networking installations. Fully compliant with the IEEE 802.11b standard, the WLB610 offers superior wireless technology and advanced 11Mbps Wireless performance for reliable, cost effective Building-to-Building Bridge solutions.



## Key Features and Benefits

**Industrial IEEE 802.11b Standard Compliant** - Complies with the IEEE 802.11b DSSS (Direct Sequence Spread Spectrum) wireless standard, ensuring full product interoperability.

**Superior Coverage and High Transmission Quality** - Advanced radio frequency technology gives outstanding performance at up to 11Mbps data transmission/reception speed and up to 30 km (18 miles) distance (with SOHOware antenna options):

- Superior receiving sensitivity enhances weak data signal pickup over longer distances
- Antenna options available from SOHOware for directional and omni-directional applications

**Remote Configuration** - Allows network administrators to manage the bridge (in the same subnet) remotely.

### Multi-Level Security

- WEP (Wired Equivalent Privacy): 40 & 128-bit WEP encryption for secure wireless LAN data transmissions
- SNMP Access Control: SNMP authentication prevents unauthorized access

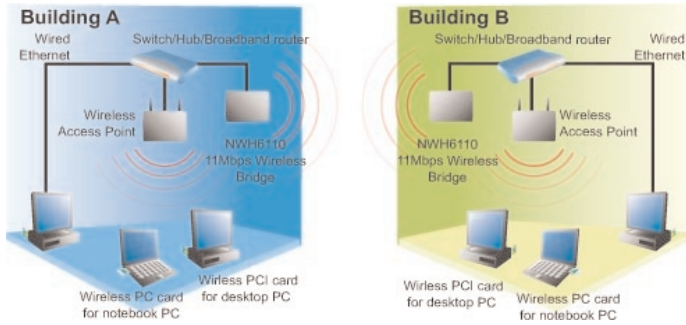
**Repeater Bridge** - The NWH6110 may be used as a repeater to extend the coverage range or to overcome an obstacle that blocks radio communication.

**Multiple Antenna Options** - Separately available are SOHOware outdoor high-gain antennas, which include options for directional or omni-directional transmission patterns to customize the solution for each installation environment.

**Outdoor Protection Package for Variable Weather (Optional)** - The additional Outdoor Protection package allows the Bridge to be fully weatherized for locating outdoors as may be required in certain applications.

**Power-over-Ethernet (Optional)** - Place the Bridge virtually anywhere. No nearby power outlet required.

# Wireless Building-to-Building Bridge Application Scenarios



(above) Point-to-Point: The point-to-point bridge mode connects two networks in different locations through a wireless connection. This capability allows a single high-speed connection to the Internet to be shared across separate sites.

(below) Point-to-Multipoint Bridge Mode: Point-to-multipoint bridge mode connects more than two networks in separate buildings through a wireless connection. This capability allows a single high-speed connection to the Internet to be shared across multiple sites.



(right) Repeater Mode: Use the bridge as a repeater to extend the coverage range or to overcome an obstacle that blocks radio communication.



## Specifications

Standards Compliance

IEEE 802.11b

Radio Frequency Type

Direct Sequence Spread Spectrum (DSSS)

Frequency Band

2.4GHz

Transmission Power

100mW (Max.)

Transmission Rate

11Mbps/5.5Mbps/2Mbps/1Mbps auto fallback

Transmitter

RF Output Power: 20 dBm (typical)

Frequency stability: Within  $\pm 25$ ppm

Receiver

Sensitivity: -80 dBm (Typical) 11Mbps @25° C  $\pm 5^\circ$  C

Interfaces

One RJ-45 port

Security

40-bit/128-bit WEP encryption; SNMP authentication for authorized access

Operating Environment

Operating Temperature: 0 - 50° C (32 - 122° F)

Storage Temperature: -30 - 70° C (-22 - 158° F)

Humidity: Maximum 85% at 40° C (104° F) non-condensing

Dimensions

220 x 145 x 33 mm (8.66 x 5.71 x 1.30 in.)

Power

Voltage: DC 5.1 Volt  $\pm 5\%$ ; 2A (Max.); AC adapter AC 100V - 240V

Power Consumption: 5.1 Volt. 1.0A (Typical)

FCC Part 15B (US); CE

Regulatory Approval

Network Management

Windows 98/Me/NT4.0 (SP4 or above)/2000/XP

System OS Support

Transmission Range

Up to 30km (18 miles) at 11Mbps transmission speed, depending on antenna

Warranty

One year limited

Product photo and specifications are subject to change without prior notice.

**SOH**oware®

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