

OvisLink

IWE1100-B Wireless LAN-to-LAN Bridge



OvisLink 1100 series IEEE 802.11b-based wireless LAN-to-LAN bridges offer a low-cost way to joint LAN segments that may be far separate (e.g., in different buildings) to a complete network. The default antennas can be replaced with high-gain directional/omni-directional antennas for different purposes. And with the sleek Web-based user interface, a user can easily and clearly manage the bridge.

Features

Configuration Reset. Resetting the configuration settings to factory-set values

IEEE 802.11b

6 Bridge links. The bridge provides 6 bridge links based on the WDS (Wireless Distribution System) technology, so that it can wirelessly connect to at most 6 other wireless bridges or APs / Routers with WDS support.

64-bit and 128-bit WEP (Wired Equivalent Privacy). For authentication and data encryption.

Replaceable antennas. The factory-mounted antennas can be replaced with high-gain antennas for different purposes.

DHCP client. The bridge can automatically obtain an IP address from a DHCP server.

Firmware Upgrade. The firmware of the bridge can be upgraded, so that more features can be added in the future.

Xmodem-based. Upgrading firmware over RS232.

TFTP-based. Upgrading firmware by TFTP (Trivial File Transfer Protocol).

Management

Web-based management UI for configuring and monitoring bridges. The management protocol is HTTP (HyperText Transfer Protocol)-based.

UPnP. The bridge responds to UPnP discovery messages so that a Windows XP user can locate the bridge in My Network Places and use a Web browser to configure it.

SNMP. SNMP (Simple Network Management Protocol) MIB I, MIB II, IEEE 802.1d, IEEE 802.11, IEEE 802.1x (*Advanced edition*), and OvisLink Enterprise MIB are supported.

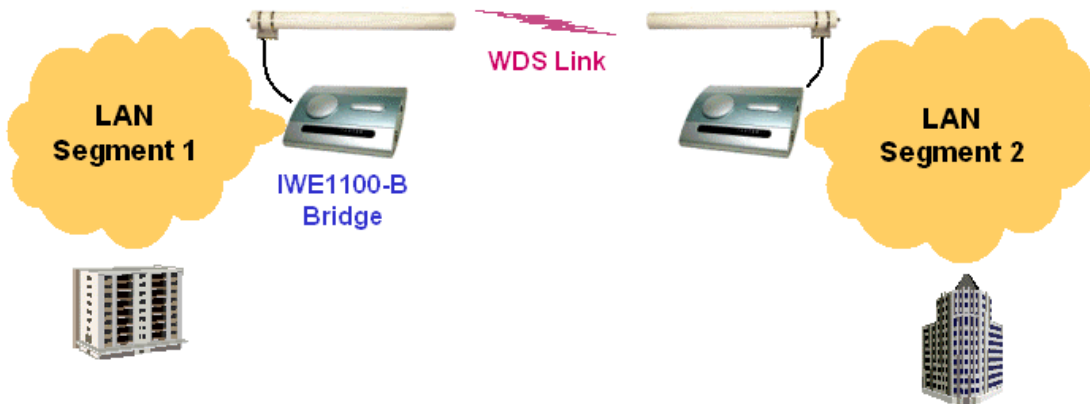
Power over Ethernet (Optional). Supplying power to an bridge over an Ethernet cable using [PowerDsine](#) technology (IEEE 802.3af compliant in the future). This feature facilitates large-scale wireless LAN deployment.

Hardware Watchdog Timer. If the firmware gets stuck in an invalid state, the hardware watchdog timer will detect this situation and restart the bridge. Accordingly, the bridge can provide continuous services.

Usage Scenarios

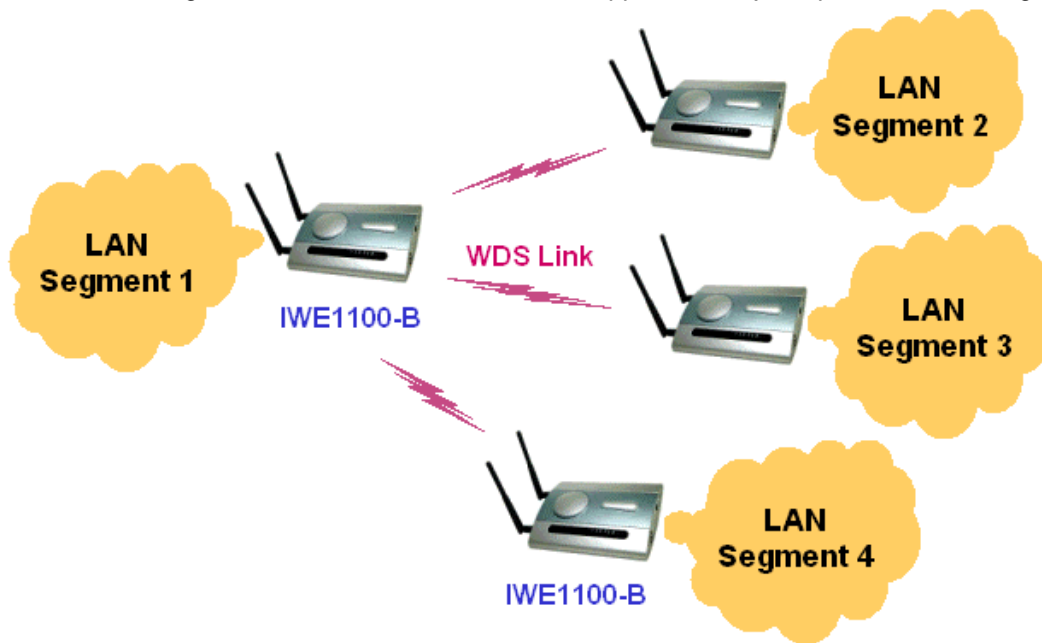
Point-to-Point

The bridge can be used to join two LAN segments in two buildings into a complete network. By using high-gain antennas, the distance between two buildings can be miles long.



Point-to-Multipoint

The bridge can also be used in a "star" like application to join up to 7 network segments.



Specifications

Standards:

- IEEE 802.11b HR for wireless LAN
- IEEE 802.3u 10/100BaseTX for Ethernet LAN

Spreading:

- DSSS (Direct Sequence Spread Spectrum)

Security:

- 40-bit and 128-bit WEP Encryption

Frequency range:

- 2.400~2.4835 GHz (subject to local regulations)

Operating range:

- Open Space: 100-300m
- Indoor: 35m-100m

* Supported bit rate:

- 11Mbps, 5.5Mbps, 2Mbps, 1Mbps

High performance:

- Automatic Scale Back Functionality, long (short) preamble

Data rate and modulation:

- 11Mbps and 5.5Mbps CCK; 2Mbps: DQPSK; 1Mbps: DBPSK

Operating channels:

- USA (FCC): 1-11
- Canada (IC): 1-11
- Europe (ETSI): 1-13
- France: 10-13
- Japan: 1-14

Transmit (output) power: Peak 17dBm

Receiver sensitivity:

- Better than -85dBm

Port characteristics:

- LAN port (100Base-TX): RJ45 * 1
- COM port: RS232 * 1

Antenna system:

- Dual antenna diversity system 2dB gain

Utilities:

- Web-based Network Manager

Network protocols:

- TCP/IP, NetBIOS, IPX/SPX, NetBEUI, bridgepleTalk
- Physical and Environmental

LED indicators:

- Power, LAN Link/ACT, RF Link/ACT, System Alive

Power adapter input:

- AC 100~120V 47~63 Hz, 1.0A
- MAX Output: DC 5V, 2.5A

Dimensions:

- 175 x 145 x 50 mm

Temperature range:

- 0~55° (Operating), -20~70° (Storing)

Humidity Max:

- 5%~95% Non-condensing in storage

Certification:

- FCC part 15 class B in US, ETSI 300.328 and CE EMC-EEC in Europe

Warranty:

- 1 year