



## WiSpan Ethernet-to-Wireless Bridge

- ▶ Equips Ethernet-ready electronic equipment with 802.11 b/g wireless connectivity
- ▶ Enables remote monitoring and control of devices around the world
- ▶ Provides bulletproof wireless security with IEEE 802.11i-PSK, WPA-PSK, TKIP
- ▶ Ruggedized design and wide operating temperature range to withstand harsh environments
- ▶ FCC Class B, UL and EN EMC and safety-compliant



## Give Your Ethernet-ready Devices the Bridge to WiFi

The WiSpan™ wireless bridge from Lantronix gives virtually any piece of electronic equipment with an Ethernet port industry-standard wireless 802.11 b/g connectivity – quickly and easily! Its built-in IEEE 802.11i-compliant security ensures data privacy and integrity, and it features a rugged design and wide temperature range to easily handle harsh environments.

Part of the DeviceLinX™ family of products which connect peripheral electronic devices to a network or the Internet enabling them to be remotely accessed, monitored and controlled, WiSpan enables virtually any electronic device with an Ethernet port to be networked over a wireless 802.11 connection. By merging wireless communications with Lantronix device networking technology, WiSpan simplifies connectivity to devices in applications where mobility is required and Ethernet cabling is impractical or expensive.

WiSpan is a turnkey solution that includes the necessary cables, power supply and antenna to rapidly and easily enable industry-standard 802.11 b/g wireless connectivity for Ethernet-ready devices. It includes an industry-standard RJ45 10/100 Ethernet port and an 802.11 b/g radio that converts Ethernet data into wireless data. And to enable access to a local network or the Internet, WiSpan integrates a fully developed TCP/IP network stack and OS.

With a ruggedized design and wide operating temperature range (from -40°C to 70°C), it is ideally suited for harsh conditions or environments such as warehouses, factories or on commercial vehicles. Other applications include:

- Industrial automation equipment
- Building automation equipment
- Industrial/commercial printers
- Point-of-sale devices
- Telematics boxes
- Kiosks
- Medical devices
- Security equipment
- Commercial weigh scales

### Bulletproof Wireless Security

With state-of-the-art IEEE 802.11i/PSK WPA2-Personal compliant security, WiSpan ensures that data transmitted over a wireless connection is protected. It's also compliant with WPA-PSK security for operation in an infrastructure network that does not support 802.11i/PSK standards.

### Robust Features, Simple Setup

The WiSpan is specifically designed to make putting your Ethernet equipment on a WiFi network fast and easy. The comprehensive setup menu enables you to configure the wireless settings, server IP settings, bridging settings and other advanced settings that make sense for your particular needs.

Lantronix Windows-based DeviceInstaller™ makes configuration over the Ethernet port simple.

- Install and configure WiSpan and load firmware
- Assign IP and other network-specific addresses
- Enable web-based configuration
- Allow Telnet communication for configuration

WiSpan can even be remotely reconfigured over a wired IP network. It is given a "static" IP address during its initial configuration. Once this address is implemented, subsequent reconfiguration of the WiSpan's wireless or wired networking parameters is accomplished simply by attaching it to the corporate wired Ethernet network.





## Features

### Wireless Specifications

Wireless Standards: IEEE 802.11b; 802.11g  
 Frequency Range: 2.412 – 2.484 GHz  
 Output Power: 14dBm +1.5 dBm/-1.0 dBm  
 Maximum Receive Level: -10dBm (with PER < 8%)  
 Data Rates With Automatic Fallback  
 54Mbps – 1Mbps  
 Media Access Control: CSMA/CA with ACK  
 Range: Up to 328 feet indoors  
 Modulation Techniques: OFDM, DSSS, CCK, DQPSK, DBPSK,  
 64 QAM, 16 QAM

### Security

IEEE 802.11i - PSK with AES-CCMP Encryption (WPA2-Personal)  
 WPA - PSK  
 TKIP Encryption  
 64/128-bit WEP

### Network Interface

10/100 Ethernet  
 Protocols Supported: ARP, UDP, TCP, Telnet, ICMP, SNMP, Auto IP, HTTP, TFTP

### Indicators (LED)

Power  
 Ethernet Link  
 Wireless Link  
 Setup

### Processor

CPU: DStni-EX (enhanced 80186, 88 MHz)  
 Memory: 256 Kbytes SRAM, 2 Mbytes flash

### Management

Lantronix DeviceInstaller GUI, Serial login, SNMP, Telnet login, HTTP

### Power

Input: 9-30 VDC  
 Consumption: 2 W max.  
 AC adapter included (see ordering information below)

### Environmental

Operating temperature range: -40° to 70°C  
 Operating humidity: 0 to 95%, non-condensing  
 Storage temperature range: -40° to 85°C

### Device Packaging

Material: metal case with flange mount  
 Dimensions (LxWxH): 94 x 72 x 23 mm (3.7 x 2.8 x .9 in)  
 Weight: 0.4 kg (0.9 lbs)

### Agency Approvals

FCC-B, C/UL, CSA, CE, TUV, CTick  
 (Type Certification of Specified Radio Equipment)

### Warranty

2-year limited warranty

### Shipping Dimensions

Dimensions (LxWxH): 242 x 191 x 115 mm (9.5 x 7.5 x 4.5 in.)  
 Weight: 1.5 kg (3.0 lbs.)

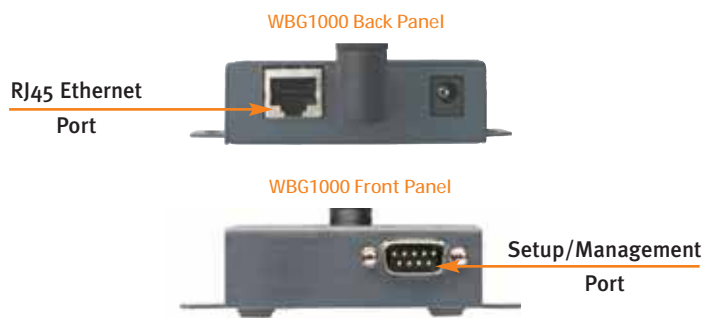
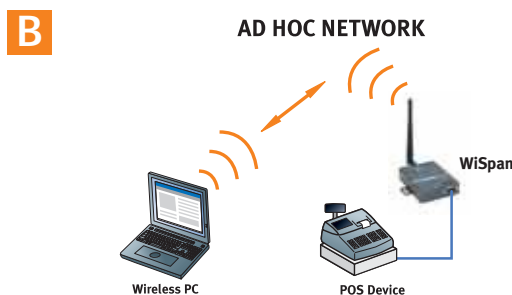
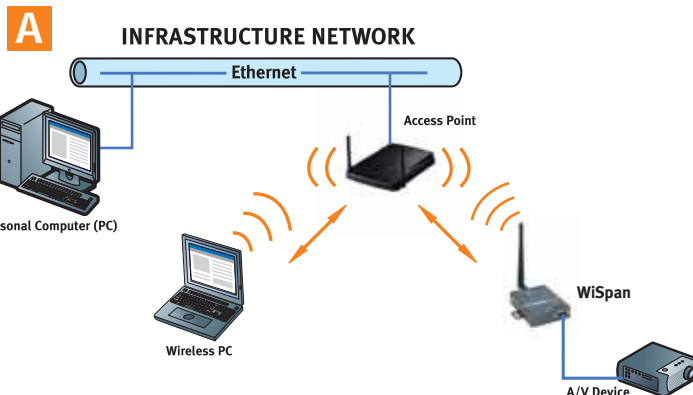
### Included Software and Documentation

Windows® 98/ME/NT/2000/XP-based configuration software, related utilities, Quick Start Guide, User Guide



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## Example Configurations



## Ordering Information

Part Number	Description
WBG1000001-01	WBG1000 802.11g Wireless to Ethernet Bridge, 115Vac, 50/60 Hz power adapter
WBG1000002-01	WBG1000 802.11g Wireless to Ethernet Bridge, 100-240Vac, 50/60 Hz international power adapter