

Model: GHOSTBRIDGE5**High Performance Wireless Ethernet Bridge****Features**

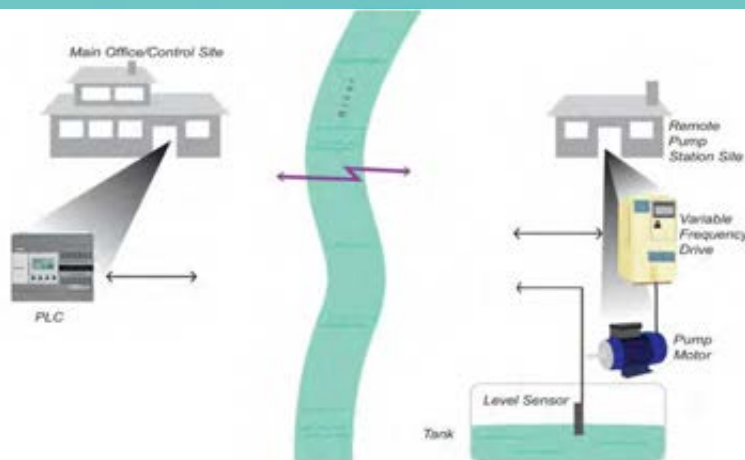
- ✓ Long Range, High Speed Wireless Ethernet Link
- ✓ Point and play setup
- ✓ Outdoor rated, UV stabilized enclosure
- ✓ Integrated 80 degree sector antenna
- ✓ Maximum data rate of 150 Mbps
- ✓ Up to 15 km line of sight range
- ✓ Wide temperature range of -30 to 80°C
- ✓ Power, Link and Signal Strength LED's provide instant view of status
- ✓ Includes both DC and AC powered PoE adapters
- ✓ PoE pass-through Ethernet port to connect local devices such as IP camera
- ✓ Preconfigured WPA2 128 bit security

**Functional Description**

Seamlessly connect remote devices to your network, or bridge two LAN's together. The GhostBridge provides a high speed wireless Ethernet bridge with zero configuration required. Units are sold as a preconfigured pair and require no further setup. Simply mount it, aim it and plug it in to your network or device using the included PoE adapters.

Applications

- Water and Waste-water treatment
- Warehouse automation
- Security - IP cameras
- Monitoring and Instrumentation

Remote Pump Station Application

Specifications**Ethernet Interface**

Ethernet Port 1	RJ45
Ethernet Port 2	RJ45
LED's	Power, LAN1, LAN2, 4 wireless signal strength

Power

PoE Power	24V PoE powered device through Ethernet port + pins 4,5, - pins 7, 8
Included PoE Injectors	(2) 100-240VAC input @ 50-60 Hz 24V out, 0.5A out PoE injectors (2) DC input PoE injector with 1m power jack to stripped wires
Power	8 Watts maximum power consumption

RF

Operating Frequency	5470 – 5825 GhostBridge5
TX Power (Avg)	21 – 27 dBm +/- 2dB (varies by mode/conditions)
RX Sensitivity	-74 – 96 dBm +/- 2dB (varies by mode/conditions)
Antenna Type	Integrated 2x2 MIMO. 80 degree sector
Antenna gain	14.6 – 16.1 dBi over 4.9 – 5.9 GHz
Security	Each GhostBridge pair is preconfigured to WPA2 128 bit

Mechanical

Dimensions	11 x 3.2 x 1.2 in (28 x8 x 3 cm) body 11 x 3.2 x 2.4 in (28 x8 x 6 cm) including built-in brackets
Weight per unit	0.86 lbs (0.4 kg)
Shipping weight	3.0 lbs (1.4 kg)
Mounting	Integrated pole mount, wire ties included Optional wall/pole mount swivel bracket sold separately
Enclosure	IP54. UV Stabilized plastic.

Environmental

Operating Temperature	-30 to 80°C (-40 to 176°F)
Storage Temp	-40 to 85°C (-40 to 185°F)
Operating Humidity	0 to 95 % (Non-condensing)

Approvals / Certifications

Emissions	FCC Class B, CISPR Class B (EN55022)
CE	EN61000-6-1:2007
	EN61000-4-2:2008 Electrostatic Discharge
	EN61000-4-3:2006 Radiated Immunity
	EN61000-4-4:2004 Electrical Fast Transients - Burst
	EN61000-4-6:2005 Conducted Immunity
	EN61000-4-11:2004 Voltage Dips and Interruptions
	EN 301 489-1 V1.4.1: 2002-08 Electromagnetic Compatibility
	EN 301 489-17 V1.2.1: 2002-08 Electromagnetic Compatibility
	EN 301 893-1 V1.4.1: 2007 Directive for 5 GHz Radio Equipment
	EN 50385: 002 RF Exposure Limits
	EN 60950-1: 2006 Safety for Information Technology Equipment

Ordering Information

Model Number	Description
GhostBridge5	5 GHz Secure Wireless Ethernet Bridge (sold in preconfigured pairs)

Accessories

GMT25	Swivel wall-mount bracket, sold individually
IASFST	MOCAP silicon installation tape – used to wrap Cat5 cable connection

Package Contents

- 2 GhostBridge nodes
- 2 110-240 VAC input 24VDC output PoE injectors with AC power cords
- 2 24 VDC input, 24 VDC output PoE injectors with barrel plug adapters
- 4 Heavy duty wire ties
- 1 Quick Start Guide

Special Configuration Options

While zero configuration is required, the following settings can be configured via the built in web server to address special needs or applications.

Power Output	8 – 27 dBm
Channel Width	5, 10, 20, Auto 20/40 MHz
Country Configuration	Select the country to automatically change RF settings (US default)
Security Protocols	WEP, WPA, WPA-TKIP, WPA-AES, WPA2, WPA2-TKIP, WPA2-AES
Username/Password	Change login information
IP Address	Static and DHCP settings

