



## RAMP Bridge

### Simple, Long-Range Wireless Ethernet Bridging



Laird's RAMP Bridge provides a simple, high-performance Wireless Ethernet cable replacement system that eliminates the frustration, cost, and complication of its competitors, all contained in a small, durable form factor. Say goodbye to enormous outdoor antennas that rely on directional precision and complicated alignment. Laird's RAMP Bridge makes it easier than ever to achieve industrial-strength long-range Ethernet cable replacement in any environment.

#### QUICK AND EASY, RIGHT OUT OF THE BOX

RAMP Bridge starter packs contain two RAMP Bridge units configured as server and client. This allows you to plug into your network and get started quickly. Individual units are also for sale which may be set as either a server or a client with the on-board setup wizard. The RAMP Bridge setup wizard, accessible over your web browser, makes setting up, testing, backing up, and updating every RAMP Bridge device as simple as following a few prompts.

#### SMALL, RUGGED, AND ENTIRELY WEATHERPROOF

In addition to the high-gain omnidirectional antenna, the RAMP Bridge is encased in a sturdy IP67 waterproof enclosure. This allows the RAMP Bridge to be reliably deployed without the cost or complications of external, directional antennas. The integrated antenna is complemented by an internal power amplifier to deliver range usually only available with an external antenna.

#### ALL THE PERFORMANCE, NONE OF THE HASSLE

The RAMP Bridge provides exceptional performance, connectivity, and range in an impressively small form factor. It achieves RF data rates up to 54Mbps at ranges as high as half a mile, and a maximum range of 3.5 miles. Don't struggle with products that rely on huge directional antennas which must be carefully aligned and maintained to connect. The RAMP Bridge's omnidirectional antenna means you'll never have to carefully point antennas to achieve superior communications. This makes the RAMP Bridge the best and simplest solution for wireless deployment in all environments.

#### Features & Benefits

- Point to point or point to multipoint bridging (up to five clients)
- Omni-directional internal antenna (no pointing necessary)
- RF Data rates up to 54Mbps
- Browser-based configuration wizard, no need for external configuration software or drivers
- Power Over Ethernet (802.3af)
- IP67-certified waterproof enclosure
- FCC/IC Regulatory approvals

#### Application Areas



Digital signage  
(LED signs, reader  
boards, outdoor  
menus)



Remote POS  
terminals for  
hospitality / retail



Easy, robust  
networking in  
remote worksite  
locations

#### global solutions: local support..

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The details contained within this document are subject to change. Download the product specification from [www.lairdtech.com/RAMP](http://www.lairdtech.com/RAMP) for the most current specification.



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CATEGORY	FEATURE	IMPLEMENTATION
Wireless Specifications	Network architecture	Server/client
	Frequency band	2.400-2.483.5 GHz
	Modulation	DSSS
	Ethernet interface data rate	10/100Mbps
	Channels	11 selectable
	Security	128 bit AES-CCMP
	RF Data Rate	Up to 54Mbps
	Sensitivity	-92 dB @ min RF data rate
	Range (line-of-sight)	Up to 5.5 km (3.5miles)
	Transmit power	Up to 4W EIRP
Power Specifications	Input Voltage	48V dc POE
	Power Consumption	7 Watts
	Power supply	Power Over Ethernet (802.3af)
	Temperature	-40° to +70°C
Environmental	Ingress Protection	IP-67 Dust Tight and Water Immersion up to 1m
Physical	Dimensions	355.6 x 106 mm (14 x 4.17 in.)
	Weight	798g (1.76lbs)
	Antenna	Integrated 5dBi Omni Directional
	Mounting Options	Wall Mount (Standard) Pole Mount 38.1mm (1.5in) to 114.3mm (4.5in)(optional)
Hardware	Standard interface	RJ-45 Power Over Ethernet (802.3af)
Software	Configuration software	Internal webserver for configuration

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## Ordering Information

RMB024-POE	Single 2.4GHZ Power Over Ethernet Unit
RMB024-POE-SP	Starter pack: Two 2.4GHZ Power Over Ethernet Units preconfigured in bridge mode

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### Revision History

Version	Date	Changes	Approved By
1.0	12 Feb 15	Initial	C. Downey