Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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

RoHS

- 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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Asia: +852.2923.0610

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www.lairdtech.com/RAMP

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

RAMP Bridge

Simple, Long-Range Wireless Ethernet Bridging

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

The details contained within the document are subject to change.

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

CONN-DS-RAMP-BRIDGE_v1_0

Revision History

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