



# Tsunami™ QuickBridge 60

## Wireless Outdoor Bridge



## The Fastest, Easiest Way to Building-to-Building Connectivity

Offering unprecedented ease-of-installation in conjunction with an aggregate throughput of 60 Mbps, the Tsunami QuickBridge 60 is the best price/performance value for building-to-building data connectivity.

Providing outdoor connectivity between buildings at distances of up to 3 miles, Tsunami QuickBridge 60 provides data connectivity at speeds that approach a standard DS-3 installation. And, because it is wireless and license-free, you can get connected without delay.

### Cost-Effective Connectivity

Tsunami QuickBridge 60 greatly reduces the installation costs and recurring fees associated with standard T1, E1, or DS-3 installations. As a replacement for a DS-3 leased-line, it pays for itself in less than two months.

### Fast, Easy Installation

Tsunami QuickBridge is the easiest-to-install outdoor bridge on the market — it can be installed in a couple of hours, not days. The solution includes two radio units with integrated antennas, and all of the necessary documentation, cables and mounting hardware. An antenna alignment tool uses audible tones to ensure that the antennas are properly aligned before you leave the installation site.

### About the Tsunami Product Family

The Tsunami family of Ethernet bridges provides wireless solutions that meet the growing demand for transparent and reliable high-speed network interconnectivity. In addition to Tsunami QuickBridge 60, the most cost-effective outdoor bridging solution available today, the Tsunami product line includes:

**Tsunami 10**, a cost-effective, high capacity alternative to multiple wireline T1 connections

**Tsunami 45 and Tsunami 100**, carrier-class building-to-building connectivity for voice and data

**Tsunami 480**, the world's first license-exempt Ethernet bridge to provide Gigabit wireless connectivity using native IP.

## PRODUCT HIGHLIGHTS

### Fast and Easy to Deploy

- Streamlined design minimizes deployment costs
- Kit includes all cables and hardware for out-of-the-box installation
- Audible beeper for aiding antenna alignment

### Rapid Return on Investment

- Rapid, easy deployment enables quick service activation at reduced costs
- High-capacity connection enables faster network traffic to deliver new service offerings

## KEY FEATURES

- Fast data rates: 54, 36, 18 Mbps, user selectable
- Operates in the 5.8 GHz U-NII band and ISM band
- Point-to-point communications up to 3 miles for highest throughput setting, up to 6 miles for lowest setting
- 1 year warranty

# Tsunami™ QuickBridge 60

## Product Specifications

| PRODUCT                | FREQUENCY BAND  | AGGREGATE THROUGHPUT | CHANNEL PLANS | THRESHOLD (BER=1X10 <sup>-4</sup> ) | EIRP OUTPUT POWER | SYSTEM GAIN (INCLUDING ANTENNA) | DISTANCE (MILES/KM)  |
|------------------------|-----------------|----------------------|---------------|-------------------------------------|-------------------|---------------------------------|----------------------|
| Tsunami QuickBridge 60 | 5.725-5.825 GHz | 54 Mbps              | 7             | -77 dBm                             | +36 dBm           | 112 dB                          | Up to 3 miles /5 Km  |
|                        |                 | 36 Mbps              | 7             | -81 dBm                             | +36 dBm           | 116 dB                          | Up to 4 miles /6 Km  |
|                        |                 | 18 Mbps              | 7             | -89 dBm                             | +36 dBm           | 124 dB                          | Up to 6 miles /10 Km |

### System

|                       |  |
|-----------------------|--|
| Capacity              | 54, 36, or 18 Mbps aggregate throughput, user selectable   |
| Transmit Output Power | +16 dBm max; +15 dBm typical   |
| Antenna               | Integrated LHCP; 20dBi, 10° azimuth by 10° elevation   |
| Maximum Receive Level | -20 dBm error free   |
| Latency               | 2.5 msec typical, 5 msec maximum   |
| Access Method         | Time Division Duplex   |
| Modulation Technique  | 16 QAM - QPSK, with equalization and FEC   |
| Security Key          | 16 Character Security ID (Alphanumeric), authentication and PN transmission scrambling               |
| Compliance            | US: FCC Part 15.407 U-NII, 15.247 ISM; Canada: IC RSS 210<br>Contact Proxim for additional countries |

### Data Interface

|                    |   |
|--------------------|---|
| Ethernet Interface | 10/100BaseT via AC power adapter                    |
| Connector          | RJ-45 female modular plug w/weather-protected shell |
| Cable Type         | CAT5  |
| Compliance         | IEEE 802.3  |

### Management

|                      |   |
|----------------------|---|
| Local, Remote Access | QuickBridge Utility (Java-based GUI) for discovery, status, and configuration |
| Software Upgradeable | Over-the-air reprogramming  |
| Security             | 2-level password access on Utility  |

### Power/Environment

|                         |  |
|-------------------------|--|
| QuickBridge             |  |
| AC Power                | Adapter included, 110 VAC or 220 VAC, 450mA Output; 24V DC, 1Amp |
| DC Power (to unit)      | +18 to +28 VDC   |
| Power Connector         | Power over Ethernet CAT5 cable<br>RJ-45 connector                |
| Operational Temperature | -33° to 55° C  |
| Storage Temperature     | -55° to 85° C  |
| Humidity                | 5-100% condensing  |
| Altitude                | Up to 10,000 ft  |
| Safety                  | UL 1950, EN60950   |
| Wind Loading            | 115 mph  |

### Physical Unit

|                         |   |
|-------------------------|---|
| QuickBridge Unit        |   |
| Size (WxHxD)            | 10.5x10.5x7 inches<br>26.5x26.5x14.4 cm   |
| Weight                  | 10lbs /4.5kg  |
| Mounting (Installation) | Pole Mount 1.5-2.75" / 3.08 – 6.98 cm O.D.<br>(hardware included for 1.75" / 4.4 cm O.D.) |

### Shipping Configuration

2 QuickBridge Radio Units, 2 sets mounting hardware, 2 power adapters, 2 sets 50 meter Cat5 cable, 2 sets user documentation & utilities on CD-Rom

### Frequency Channel

| Channel Plan | Frequency   |
|--------------|-------------|
| 3A           | 5742.19 MHz |
| 3B           | 5775.39 MHz |
| 3C           | 5808.59 MHz |
| 4A           | 5743.85 MHz |
| 4B           | 5764.60 MHz |
| 4C           | 5785.35 MHz |
| 4D           | 5806.10 MHz |

### Ordering Information

|           |  |
|-----------|--|
| 48001-003 | Tsunami QuickBridge 60 Kit - 110 VAC     |
| 48001-004 | Tsunami QuickBridge 60 Kit - 110/220 VAC |

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