



## Tsunami™ Quickbridge 60 Wireless Outdoor Bridge

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

Offering unprecedented ease-of-installation and an aggregate throughput of 54 Mbps, the Tsunami QuickBridge 60 is the best price/performance value for building-to-building data connectivity. Providing outdoor connectivity at distances of up to 3 miles, Tsunami QuickBridge 60 provides speeds that approach a standard DS-3 installation. And, because it is wireless and license-free, you can get connected without delay.

### Applications

- Cost-effective building-to-building bridging
- Quickly deployed for emergency communication links
- Reliable, inexpensive data backhaul
- Provide redundancy or extend current leased line installations

### Features and Benefits

- 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
- Integrated radio and electronics makes installation quick and simple
- 1 year warranty

### 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.

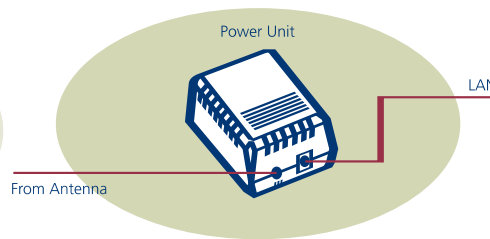
### Fast, Easy Installations

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.

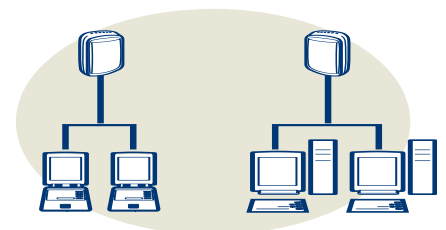
## Installation As Easy As 1-2-3



**1** Mount Quickbridge onto outside of each building



**2** Using supplied CAT-5 cable, connect Quickbridge unit to indoor power unit.



**3** Connect directly to existing LAN.

## TSUNAMI Quickbridge 60 Specifications

FREQUENCY BAND	AGGREGATE THROUGHPUT	CHANNEL PLANS	THRESHOLD (BER=1X10 <sup>-6</sup> )	EIRP OUTPUT POWER	SYSTEM GAIN (INCLUDING ANTENNA)	DISTANCE (MILES/KM)
5.725–5.825 GHz	54 Mbps	7	-77 dBm	+36 dBm	133 dB	Up to 3 miles / 5 Km
	36 Mbps	7	-81 dBm	+36 dBm	137 dB	Up to 4 miles / 6 Km
	18 Mbps	7	-89 dBm	+36 dBm	145 dB	Up to 6 miles / 10 Km

RADIO CHARACTERISTICS	CHANNEL PLAN	FREQUENCY	CHANNEL PLAN	FREQUENCY
Frequency	3A	5740.401 MHz	4A	5743.85 MHz
	3B	5774.984 MHz	4B	5764.60 MHz
	3C	5809.568 MHz	4C	5785.35 MHz
			4D	5806.10 MHz

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 (TDD)
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; Model 40100-65

### 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 Manager (Java-based GUI) for discovery, status, and configuration
Software Upgradeable	Over-the-air reprogramming
Security	2-level password access on Manager

### ELECTRICAL SPECIFICATIONS

AC Power	Adapter included, 110 VAC or 220 VAC, 450mA Output; 28 V DC, 0.6 A
DC Power (to unit)	+18–+28 vDC
Power Connector	Power over Ethernet CAT5 cable RJ-45 connector

### ENVIRONMENTAL SPECIFICATIONS

Operational Temperature	-25°–55° C
Storage Temperature	-55°–85° C
Humidity	5–100% condensing
Altitude	Up to 10,000 ft
Wind Loading	115 mph

### PHYSICAL SPECIFICATIONS

Dimensions	10.5 x 10.5 x 7 in, 26.5 x 26.5 x 14.4 cm
Weight	10 lbs/4.5 kg
Mounting (Installation)	Pole Mount 1.5–2.75 in/3.08–6.98 cm O.D. (hardware included for 1.75 in/4.4 cm O.D.)

### PACKAGE CONTENTS

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

### ORDERING INFORMATION

301-48001-004	Tsunami QuickBridge 60 Kit – 110/220 VAC
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