



Tsunami™ QuickBridge 20

Wireless Outdoor Bridge



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

Tsunami QuickBridge 20 is a faster, easier, and more cost-effective alternative to leased lines, and 802.11b bridges — providing toll quality outdoor connectivity between buildings at distances of up to six miles.

At 20 Mbps, Tsunami QuickBridge 20 provides data connectivity at nearly four times the actual throughput of comparably priced 802.11b bridging solutions, and more than five times the speed of a standard T1/E1 installation. At the same time, Tsunami QuickBridge 20 delivers up to 99.999% reliability — exceeding that of leased lines. And, because it is wireless and license-free, you can get connected without delay.

FASTER RETURN ON INVESTMENT THAN LEASED LINES

Tsunami QuickBridge 20 greatly reduces the installation costs and recurring fees associated with standard T1 or E1 installations. As a leased-line replacement for a single T1/E1, it pays for itself in about a year. Payback period can further be reduced to less than 2 months when replacing multiple leased lines. And, with the addition of an optional T1 or E1 port, you can establish both voice and data connectivity between buildings and eliminate the recurring leased line costs.

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 everything you need, including 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 20, 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
- T1 or E1 capability available

KEY FEATURES

- Fast data rates: 18 Mbps
- Toll quality voice: T1/E1
- Operates in the 5.8 GHz ISM band
- Point-to-point communications from less than 1 mile to up to 6 miles
- 1 year warranty

Product Specifications

PRODUCT	FREQUENCY BAND	AGGREGATE THROUGHPUT	FREQUENCY CHANNEL PLANS	THRESHOLD (BER=1X10 ⁻⁵)	EIRP OUTPUT POWER	SYSTEM GAIN (INCLUDING ANTENNA)	DISTANCE (MILES/KM)
Tsunami QuickBridge 20	5.725-5.825 GHz	18 Mbps	7	-89dBm	+36 dBm	124 dB	Up to 6 miles/10 Km
Tsunami QuickBridge 20+T1/E1	5.725-5.825 GHz	18 Mbps	7	-89dBm	+36 dBm	124 dB	Up to 6 miles/10 Km

System

Capacity	
QuickBridge 20	18 Mbps aggregate throughput
QuickBridge 20 +T1/E1	12 Mbps aggregate data throughput, 3 Mbps/4 Mbps dedicated T1/E1
System Gain	124 dB
Maximum Distance	6 miles/10 Km line of sight
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	QPSK with equalization and FEC
Security Key	16 Character Security ID (Alphanumeric), authentication and PN transmission scrambling
Compliance	US: FCC Part 15.247 ISM; Canada: IC RSS 210 Contact Proxim for additional countries

Data Interface

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

Digital Line Interface

T1 Digital Interface	Optional Channel via indoor external T1 multiplexer
Connector	RJ-45 female modular jack
Compliance	ANSI T1.403
E1 Digital Interface	Optional Channel via indoor external E1 multiplexer
Connector	Balanced RJ-45 female modular jack, 8 pin
Compliance	ITU-T Rec. G.703

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, 1 Amp
DC Power (to unit)	+18 to +28 VDC
Power Connector	Power over Ethernet CAT5 cable 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
T1/E1 Multiplexer	
AC Power	Built-in AC power supply, 110/220 VAC, 1 Amp
Operational Temperature	0° to 50° C
Humidity	Up to 90% non-condensing

Physical Unit

QuickBridge Unit	
Size (WxHxD)	10.5x10.5x7 inches 26.5x26.5x14.4 cm
Weight	10lbs /4.5kg
Mounting (Installation)	Pole Mount 1.5-2.75" / 3.08 – 6.98 cm O.D. (hardware included for 1.75" / 4.4 cm O.D.)
T1/E1 Multiplexer	
Size (WxHxD)	8.4x1.7x9.7 inches 21.34x4.38x24.64 cm
Weight	2.7 lbs/1.25 kg

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, 2 external T1/E1 multiplexers on applicable SKUs

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

48001-001	Tsunami QuickBridge 20 Kit - 110 VAC
48001-002	Tsunami QuickBridge 20 Kit - 110/220 VAC
48001-011	Tsunami QuickBridge 20 +T1 Kit - 110 VAC
48001-012	Tsunami QuickBridge 20 +E1 Kit - 110/220 VAC