



Tsunami™ QuickBridge 20 Wireless Outdoor Bridge



Applications

- Cost-effective building-to-building bridging
- Easy to deploy point-to-point voice and data connectivity
- Reliable, inexpensive data and voice backhaul
- Provide redundancy or extend current fiber installations

Features and Benefits

- Fast data rates: 18 Mbps
- Toll quality voice: T1/E1 (on select models)
- Operates in the unlicensed 5.8 GHz ISM band
- Point-to-point communications from less than 1 mile to up to 6 miles
- Integrated radio and electronics makes installation quick and simple
- 1 year warranty

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 18 Mbps, Tsunami QuickBridge 20 provides nearly four times the throughput of 802.11b bridges, and over five times the speed of a T1/E1 installation. Delivering up to 99.999% reliability — exceeding that of leased lines — it's also license-free, so 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.

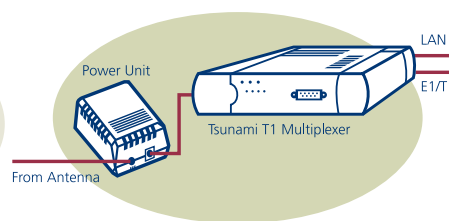
Fast, Easy Installation

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.

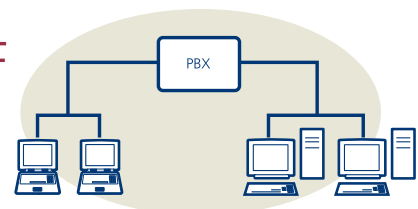
Installation As Easy As 1-2-3



- 1** Mount Quickbridge onto outside of each building



- 2** Using supplied CAT-5 cable, connect Quickbridge unit to indoor power unit, then to Tsunami T1 Multiplexer and power up units



- 3** Connect directly to existing LAN and PBX

TSUNAMI Quickbridge 20 Specifications

	FREQUENCY BAND	AGGREGATE THROUGHPUT	CHANNEL PLANS	THRESHOLD (BER=1X10 ⁻⁵)	EIRP OUTPUT POWER	SYSTEM GAIN (INCLUDING ANTENNA)	DISTANCE (MILES/KM)
QuickBridge 20	5.725–5.825 GHz	18 Mbps	7	-89dBm	+36 dBm	145 dB	Up to 6 miles/10 Km
QuickBridge 20 +T1/E1	5.725–5.825 GHz	18 Mbps	7	-89dBm	+36 dBm	145 dB	Up to 6 miles/10 Km
RADIO CHARACTERISTICS		CHANNEL PLAN	FREQUENCY	CHANNEL PLAN	FREQUENCY		
Frequency		3A	5742.19 MHz	4A	5743.85 MHz		
		3B	5775.39 MHz	4B	5764.60 MHz		
		3C	5808.59 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					
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		10/100BaseT via AC power adapter					
Connector		RJ-45 female modular plug w/ weather-protected shell					
Cable Type		CAT5					
Compliance		IEEE 802.3					
DIGITAL LINE INTERFACE		T1	E1				
		Optional Channel via indoor external T1 multiplexer			Optional Channel via indoor external E1 multiplexer		
Connector		RJ-45 female modular jack			Balanced RJ-45 female modular jack, 8 pin		
Compliance		ANSI T1.403			ITU-T Rec. G.703		
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		QUICKBRIDGE	T1/E1 MULTIPLEXER				
AC Power		Adapter included, 110 VAC or 220 VAC, 450mA; Output: 28V DC, 0.6 A			Built-in power supply, 110/220 VAC, 1 A		
DC Power (to unit)		+18–+28 VDC			n/a		
Power Connector		Power over Ethernet CAT5 cable RJ-45			n/a		
ENVIRONMENTAL SPECIFICATIONS		QUICKBRIDGE	T1/E1 MULTIPLEXER				
Operational Temperature		-33°–55° C			0°–50° C		
Storage Temperature		-55°–85° C			n/a		
Humidity		5–100% condensing			Up to 90% non-condensing		
Altitude		Up to 10,000 ft			n/a		
Wind Loading		115 mph			n/a		
PHYSICAL SPECIFICATIONS		QUICKBRIDGE	T1/E1 MULTIPLEXER				
Dimensions		10.5 x 10.5 x 7 in; 26.5 x 2 6.5 x 1 4.4 cm			8.4 x 1.7 x 9 .7 in; 21.34 x 4 .38 x 2 4.64 cm		
Weight		10 lbs/4.5 kg			2.7 lbs/1.25 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, 2 external T1/E1 multiplexers on applicable SKUs							
ORDERING INFORMATION							
48001-002		Tsunami QuickBridge 20 Kit – 110/220 VAC					
48001-011		Tsunami QuickBridge 20 +T1 Kit – 110 VAC					
48001-013		Tsunami QuickBridge 20 +E1 Kit – 110/220 VAC					



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