



# Tsunami QuickBridge 20

## Wireless Outdoor Bridge



### APPLICATIONS

- Enterprise LAN and PBX extension
- Redundant links between locations
- Voice and data backhaul from remote POPs
- Dedicated ISP connections for large subscribers
- Connectivity for long distances
- Affordable alternative to wired networks
- High-performance alternative to indoor 802.11b bridges

### Data Connectivity Made Simple

Tsunami QuickBridge 20 is a complete, user-installable wireless point-to-point bridging solution designed for reliable building-to-building data connectivity. With 18 Mbps aggregate throughput, this hop-in-a-box is a high-performance, cost-effective alternative to leased lines and indoor Wi-Fi bridges. Eliminating the deployment challenges and recurring fees associated with standard T1 and E1 installations, the Tsunami QuickBridge 20 pays for itself in less than one year.

- Nearly three times the throughput of 802.11b bridges and more than seven times the speed of a T1/E1 leased line
- Voice over IP support enables low-cost voice transmission
- Web-based QuickBridge Manager allows flexible management of local and remote radios

### Designed for Complete Ease of Use

Tsunami QuickBridge is the easiest-to-install family of broadband wireless bridges on the market. Requiring no training or wireless experience, they can be set up and installed within hours. Each solution includes everything you need to set up a link right out of the box.

- Hop-in-a-box solution includes two radios with integrated antennas, cables, mounting hardware, power supply and documentation
- Easy to use software enables fast configuration
- Audible tones ensure antennas are properly aligned

### Cost-effective Connectivity

The Tsunami QuickBridge family offers the best price-performance for campus networking and backhaul

applications. Supporting voice and data transmission, they can easily replace T1/E1 or DS-3 connections with a payback of less than one year.

- Capacity from 6 to 54 Mbps supports enterprise and service provider bandwidth-intensive applications
- Connectivity for buildings located up to 6 miles away
- Synchronous voice channels available for low cost PBX extensions

### Flexibly Manage Your Entire QuickBridge Network

Designed for outdoor networks, Tsunami QuickBridge management tools enable network managers to view and proactively maintain all radios located throughout multiple facilities. In contrast to leasing lines, network ownership gives managers complete visibility into local and remote bridges.

- Built-in SNMP support and web-based QuickBridge Manager simplify remote management and integrate easily into existing network policies
- Proactive alarm notifications enable network managers to maximize network performance

### Secure & Reliable

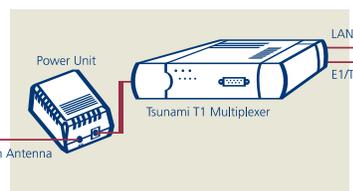
A wireless alternative to a wired network provides greater control over network quality. Backed by more than 20 years of wireless design innovation, Tsunami QuickBridge solutions offer the highest security and reliability available in networking today.

- Up to 99.995% RF link availability
- Meets or exceeds wired network security
- Proprietary encryption methods ensure secure data transmission

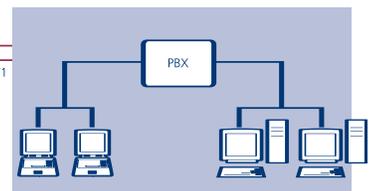
## Installation As Easy As 1-2-3



- 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 <sup>-6</sup> )	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
<b>RADIO CHARACTERISTICS</b>		<b>CHANNEL PLAN</b>	<b>FREQUENCY</b>	<b>CHANNEL PLAN</b>	<b>FREQUENCY</b>		
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					
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; Model 40100-25					
<b>DATA INTERFACE</b>							
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					
<b>MANAGEMENT</b>							
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					
<b>ELECTRICAL SPECIFICATIONS</b>							
QUICKBRIDGE							
AC Power		Adapter included, 110 VAC or 220 VAC, 450mA; Output: 28V DC, 0.6 A					
DC Power (to unit)		+18 – +28 VDC					
Power Connector		Power over Ethernet CAT5 cable RJ-45					
<b>ENVIRONMENTAL SPECIFICATIONS</b>							
QUICKBRIDGE							
Operational Temperature		-25°–55° C					
Storage Temperature		-55°–85° C					
Humidity		5–100% condensing					
Altitude		Up to 10,000 ft					
Wind Loading		115 mph					
<b>PHYSICAL SPECIFICATIONS</b>							
QUICKBRIDGE							
Dimensions		10.5 x 10.5 x 7 in; 26.5 x 2 6.5 x 1 4.4 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.)					
<b>PACKAGE CONTENTS</b>							
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							
<b>ORDERING INFORMATION</b>							
301-48001-002		Tsunami QuickBridge 20 Kit – 110/220 VAC					

