



Tsunami QuickBridge II

Wireless Outdoor Bridge



APPLICATIONS

- Enterprise LAN and PBX extension
- Redundant links between locations
- Voice and data backhaul from remote POPs
- Dedicated ISP connections for high-capacity subscribers
- Connectivity for long distances
- Affordable alternative to wired networks

Voice and Data Connectivity Made Simple

Tsunami QuickBridge II is a complete, user-installable wireless point-to-point bridging solution designed for reliable long distance and low latency voice and data connectivity. This high-performance hop-in-a-box is available with 34 Mbps and two integrated T1/E1 voice channels or with 54 Mbps aggregate throughput. Highly affordable and exceptionally easy to install, Tsunami QuickBridge II eliminates the deployment challenges and recurring fees associated with standard T1, E1, or DS-3 installations. As a replacement for a DS-3 leased line, Tsunami QuickBridge II pays for itself in less than two months.

- Co-location of multiple QuickBridge II radios increase capacity, extends range and provides network redundancy between locations
- Available with two integrated T1/E1 voice channels for low-cost voice transmission
- Built-in SNMP support and QuickBridge Manager software allow 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.

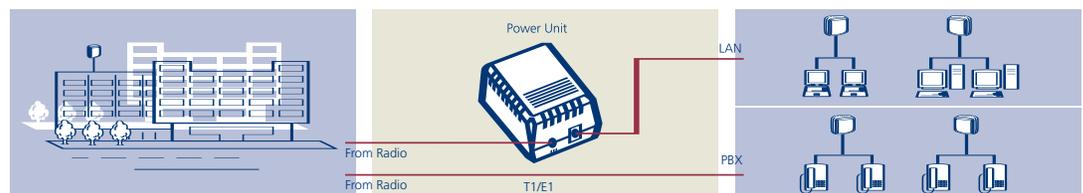
- Built-in SNMP support and web-based QuickBridge Manager simplify remote java-based management and integrate easily into existing network policies
- Proactive alarm notifications enable network managers to maximize network performance

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 Link ID provides secure wireless transmission

Installation As Easy As 1-2-3



1 Mount QuickBridge II onto outside of each building

2 Using supplied CAT-5 cable, connect QuickBridge II unit to indoor power unit

3 Connect directly to existing LAN and to PBX¹

¹ T1/E1 interfaces available on on QuickBridge II 40 + 2xT1/E1 model only

Tsunami QuickBridge II Specifications

	AGGREGATE THROUGHPUT	CHANNEL PLANS	THRESHOLD (BER=1X10 ⁻⁶)	EIRP OUTPUT POWER	SYSTEM GAIN (INCLUDING ANTENNA)	DISTANCE (MILES/KM)
QuickBridge II 60	54 Mbps	7	- 77 dBm	+36 dBm	133 dB	Up to 3 miles/5 Km
	34 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
QuickBridge II 40 + 2xT1/E1	34 Mbps ¹	7	- 81 dBm	+36 dBm	137 dB	Up to 4 miles/6 Km

RADIO CHARACTERISTICS	CHANNEL PLAN	FREQUENCY	CHANNEL PLAN	FREQUENCY
Frequency Plans	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
Frequency Band	5.725 – 5.825 GHz			
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			

DATA INTERFACE

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

QBII 40 2XT1/E1 WAYSIDE INTERFACE	T1	E1
Connector	RJ-48C female modular jack	Balanced RJ-48C female modular jack
Compliance	ANSI T1.403	G.703

MANAGEMENT

Local, Remote Access	QuickBridge Manager (Java-based GUI) for discovery, status, and configuration; SNMPv2 embedded in radio with Enterprise MIB II
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: 28V DC, 0.6 A
DC Power (to unit)	+18 – +28 VDC
Power Connector	Power over Ethernet CAT5 cable RJ-45

ENVIRONMENTAL SPECIFICATIONS

Operational Temperature	-25°–55° C
Storage Temperature	-55°–85° C
Humidity	5–100% condensing
Altitude	Up to 15,000 ft
Wind Loading	115 mph

PHYSICAL SPECIFICATIONS

Dimensions	10.5 x 10.5 x 4.5 in; 26.5 x 26.5 x 11.3 cm
Weight	10 lbs/4.5 kg
Mounting (Installation)	Pole Mount (hardware included for 1.5 – 3.0 in/3.8 – 7.6 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 & 1 CD-ROM with user documentation and QuickBridge Manager software

ORDERING INFORMATION

64678	Tsunami QuickBridge II 60 Link
64679	Tsunami QuickBridge II 40 2xT1/E1 Link
65157	Tsunami QuickBridge II GPS Antenna Kit
66988	Tsunami QuickBridge II T1/E1 Cable Kit, 2 x 50 meter Cables
66992	Tsunami QuickBridge II Cable Termination Kit – contains connectors needed to build two data or T1/E1 cables
62059	Power Supply 110/220 VAC, Switching 28V @ 1A
58521	Outdoor Wall Mounting Kit

¹ 26 Mbps with both waysides enabled

