



QuickBridge II Point-to-Point Bridge

### High-Capacity Wireless Backhaul

Proxim Wireless offers extremely reliable, secure and easily-deployed solutions for interconnecting corporate and telecommunications networks. This portfolio includes:

- **GigaLink®** – Alternative to fiber, up to a Gigabit speed
- **Lynx.GX®** – Cellular voice and data backhaul, up to DS3 interface
- **Tsunami.GX®** - Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- **TeraBridge™** – Ethernet backhaul or traditional telecommunications converged voice and data networks
- **QuickBridge®** – Complete “hop-in-a-box” Ethernet bridge for campus and small business networks

**Proxim Wireless** is a global provider in scalable broadband wireless networking. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, point-to-multipoint and point-to-point products are available through our extensive global channel network.

### Voice and Data Connectivity Made Simple

Proxim's 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, extend range and provide network redundancy between locations
- Available with two integrated T1/E1 voice channels for low-cost voice transmission<sup>1</sup>
- Built-in SNMP support and QuickBridge Manager software allow flexible management of local and remote radios

### Designed for Complete Ease of Use

Tsunami QuickBridge II 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 II 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, Proxim's 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

<sup>1</sup>T1/E1 interfaces available on on QuickBridge II 40 + 2xT1/E1 model only.

## 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



<b>PRODUCT MODELS</b>							
64678	Tsunami QuickBridge II 60 Link						
64679	Tsunami QuickBridge II 40 2xT1/E1 Link						
<b>RADIO CHARACTERISTICS</b>							
<b>CHANNEL PLAN</b>		<b>FREQUENCY</b>		<b>CHANNEL PLAN</b>		<b>FREQUENCY</b>	
FREQUENCY PLAN		3A	5,740.401 MHz	4A	5,743.85 MHz		
		3B	5,774.984 MHz	4B	5,764.60 MHz		
		3C	5,809.568 MHz	4C	5,785.35 MHz		
				4D	5,806.10 MHz		
FREQUENCY BAND		5.725 - 5.825 GHz					
		<b>AGGREGATE THROUGHPUT</b>	<b>CHANNEL PLANS</b>	<b>THRESHOLD (BER=1X10<sup>-6</sup>)</b>	<b>EIRP OUTPUT POWER</b>	<b>SYSTEM GAIN (INCLUDING ANTENNA)</b>	<b>DISTANCE (MILES/KM)</b>
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 <sup>2</sup>	7	-81 dBm	+36 dBm	137 dB	Up to 4 miles/6 km
TRANSMIT POWER		Output: +16 dBm max; +15 dBm typical					
ANTENNA		Integrated LHCP; 20 dBi, 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 with weather-protected shell					
CABLE TYPE		CAT5					
<b>QBII 40 2XT1/E1 (WAYSIDE INTERFACE)</b>		<b>T1</b>		<b>E1</b>			
CONNECTOR		RJ-48C female modular jack		Balanced RJ-48C female module jack			
COMPLIANCE		ANSI T1.403		G.703			
<b>MANAGEMENT</b>							
LOCAL, REMOTE ACCESS		QuickBridge Manager (Java-based GUI) for discovery, status, and configuration; SNMPv2 embedded in radio with Enterprise MIB II					
SOFTWARE UPGRADE		Over-the-air reprogramming					
SECURITY		2-level password access on Manager					
<b>ELECTRICAL SPECS</b>							
AC POWER		Adapter included, 100 VAC or 220 VAC, 450mA; Output: 28V DC, 0.6 A					
DC POWER (TO UNIT)		+18 to +28 VDC					
POWER CONNECTOR		Power over Ethernet CAT5 cable RJ-45					
<b>ENVIRONMENTAL SPECS</b>							
TEMPERATURE							
OPERATING		-25° to 55° C					
STORAGE		-55° to 85° C					
HUMIDITY		5 to 100% condensing					
ALTITUDE		Up to 15,000 ft					
WIND LOADING		115 mph					
<b>PHYSICAL SPECS</b>		<b>PACKAGED</b>		<b>UNPACKAGED (per radio unit)</b>			
DIMENSIONS		19.6 x 14.6 x 14.25 in (497.8 x 370.8 x 361.9 mm)		10.5 X 10.5 X 4.5 in (265 X 265 X 113 mm)			
WEIGHT		28.4 lbs (12.9 kg)		10 lbs (4.5 kg)			
<b>PACKAGE CONTENTS</b>		<ul style="list-style-type: none"> <li>• QuickBridge Radio Units (Qty 2)</li> <li>• Mounting hardware (Qty 2)</li> <li>• Power adapters (Qty 2)</li> <li>• 50 meter Cat5 cable (Qty 2)</li> <li>• CD-ROM with user documentation and QuickBridge Manager software (Qty 1)</li> </ul>					
<b>ADD'T'L ACCESSORIES</b>							
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						

<sup>2</sup>26 Mbps with both waysides enabled.

For detailed technical specifications, please go to <http://www.proxim.com/products/bwa/point/>

©2006 Proxim Wireless Corporation. All rights reserved. Proxim is a registered trademark and the Proxim logo and Tsunami are trademarks of Proxim Wireless Corporation. All other trademarks mentioned herein are property of their respective owners. Specifications are subject to change without notice.

DS\_0806\_QBII\_US