

# Tsunami<sup>®</sup> QuickBridge.11 Series

Point-to-Point Wireless Bridge Bundle



QuickBridge.11 (2454-R, 5054-R & 5054-R-LR)

### High-Capacity Wireless Backhaul

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

- **Gigalink**<sup>®</sup> Alternative to fiber, up to a Gigabit speed
- Lynx.GX<sup>®</sup> Cellular voice and data backhaul, up to DS3 interface
- **Tsunami.GX**<sup>®</sup> Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- **TeraBridge**<sup>™</sup> Ethernet backhaul or traditional telecommunications converged voice and data networks
- QuickBridge<sup>®</sup> Complete "hop-in-abox" 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.

#### **Cost Effective Solution for Quick Return on Investment**

The Tsunami QuickBridge.11 family operates in the unlicensed frequency spectrums of 2.4 GHz and 5 GHz (5.15, 5.25, 5.47, and 5.725) and comes complete with a set of accessories to ease outdoor installations. As the most cost-effective point-to-point solution from Proxim, any deployment will enjoy a quick return on investment.

- Suitable for the service provider, municipal and education markets
- Certified for deployments in the Americas, Europe, Asia, and Australia
- Designed with the same high quality and reliability that are synonymous with all Proxim Tsunami wireless bridges
- High Power version for extended range (5054-R-LR-US, FCC only)

#### Complete "Hop-In-A-Box" Allows Unprecedented Ease of Installation

Tsunami QuickBridge.11 bundles are the easiest-to-install family of broadband wireless bridges on the market. Requiring no training or wireless experience, they can be installed within hours. Each solution includes everything needed to set up a link right out of the box.

- Hop-in-a-box solution includes two radios with integrated antennas, outdoor-rated Ethernet cables, mounting hardware, power injectors and documentation
- Pre-configured software defaults and easy to use graphical user interface eliminate guess work during installation
- Audible tones ensure antennas are properly aligned

#### Industry Leading Co-Location Capability

Expand your own service coverage area or co-locate a service within another service provider's existing area – it's never been easier. All Tsunami QuickBridge.11 models support 5/ 10/ 20 MHz channels designed to mitigate radio interference in unlicensed frequency spectrums.

- 5 MHz channel increases the number of non-overlapping channels from 20 to 80+ in the 5 GHz and from 3 to 13 in the 2.4 GHz spectrums
- With the high number of non-overlapping channels, products can be used as high-bandwidth CPE (customer premise equipment) within a limited coverage area
- Less likely to offend neighboring wireless systems

#### Synergy with Tsunami MP.11 Point-to-Multipoint Systems

Maximum synergy is realized when deployed in conjunction with Tsunami MP.11 point-tomultipoint wireless systems. With the same proven platforms, both products are designed to deliver an equal experience.

- Using the integrated antennas also used in the MP.11, the QuickBridge.11 produces the same radio characteristics
- Same ruggedized enclosures allow the use of common accessories, resulting in reduced inventory and preservation of investments
- Identical CLI and graphical software interfaces reduce training costs, and accelerate installation and troubleshooting

#### **Advanced Security Protects Privacy**

QuickBridge.11 implements tiered security layers for the most secure outdoor communication in the unlicensed frequency spectrum.

- Proxim's Wireless Outdoor Routing Protocol (WORP) prevents snooping common to Wi-Fi systems
- Advanced encryption protects over-the-air transmission via AES
- Radio mutual authentication eliminates unauthorized use of the system by rogue Subscriber Units and man-in-the middle attacks
- Password protection of all remote management methods

## Tsunami QuickBridge.11 Series Technical Specifications

PRODUCT MODELS	·			APPLICATIONS	
2454-QB-XX	Tsunami QuickBridge.11 Model 2454-R Bundle			Backhaul to a Central POP	
5054-QB-XX	Tsunami QuickBridge.11 Model 5054-R Bundle			Avoid expensive installation and recurring charge of a second wireline	
5054-QB-LR-US	Tsunami QuickBridge.11 Model 5054-R-LR Bundle				
PERFORMANCE &				backhaul to a remote virtual POP	
SCALABILITY				Leased Line Redundancy	
INTEGRATED ANTENNA	Model 5054-R(-LR) includes an integrated 23-dBi antenna;	Model 2454-R includes an18-	-dBi antenna	Eliminate recurring DS-3 leased line	
EXTREME OPERATING TEMPERATURE	Rated for -33° to 60° Celsius or -27.5° to 140° Fahrenheit, the system can be deployed outdoors in hot or cold climates			charges with one time installation	
MOST FLEXIBLE FREQUENCY & C0-LOCATIONS SUPPORT				charge of a QuickBridge.11 link <ul> <li>Repeater</li> </ul>	
MOST FLEXIBLE SPECTRUM SELECTION	2.4 – 2.497 GHz; 5.15, 5.25 – 5.35 GHz; 5.47 – 5.725 GHz; 5.725 – 5.85 GHz (including 5.8 GHz for UK licensed spectrum)			Extend distance or overcome path blockage by adding point to point hops • High-bandwidth Last Mile Access Use QuickBridge.11 to deliver	
TRI-BAND 5 GHZ SUPPORT (5.25/5.47/5.725)	With software selectable frequencies, Model 5054-R can be deployed globally. Operators using 5.25 and 5.725 GHz frequency can reduce spare inventories				
5 MHZ CHANNEL SUPPORT					
10 MHZ CHANNEL	Increase the number of frequency plans to 40+ non-overlapping in 5 GHz and 13 overlapping in 2.4 GHz				
SECURE & EASY TO MANAGE				TLS (Transparent LAN Services) to corporate parks	
	Unlike the 802.11a/b/g standards, as a proprietary protocol, WORP eliminates the possibilities of unauthorized snooping			Inter-POP Redundancy	
INTER-RADIO AUTH				Avoid downtimes caused by a	
STRONGEST ENCRYPTION				wireline backhaul failure by adding	
FLEXIBLE BANDWIDTH	provisioned instantly from the central office, without costly truck rolls reduced centres, server can be redundancy			a QuickBridge.11 link as inter-POP redundancy	
REMOTE MANAGEMENT	Supports flexible and secure remote management via Telnet,	SNMP and web interfaces, with	password protections		
ANTENNA ALIGNMENT TOOL	Audible tone, visual aids via LEDs, and CLI with running statis antenna installation	tics displaying real-time signal st	trength ease		
COMPREHENSIVE STATION STATISTICS	Unit and group statistics are available for monitoring, planning	g and management of a wireles	ss network		
INTERFACES		HUMIDITY		·	
WIRED ETHERNET	10/100Base-TXEthernet (RJ-45)	OPERATING	Max 100% relative humidity (non-condensing)		
WIRELESS PROTOCOL	WORP	STORAGE	Max 100% relative h	umidity (non-condensing)	
RADIO & TRANSMISSION		WATER AND DUST PROOF	IP65		
SPECS		ELECTRICAL (POWER INJECTOR)			
MODULATION METHOD	OFDM	INPUT	Voltage 110 to 250 \	/AC	
FREQUENCY BANDS		OUTPUT	Current 420mA at 48V		
MODEL 5054-R	Americas (FCC): 5.25-5.35 GHz (15 channels) Americas (FCC): 5.725-5.850 GHz (21 channels) Europe (ETSI): 5.47-5.725 GHz (46 channels) Europe (Russia): 5.15-5.850 GHz (82 channels) Europe (Licensed in the UK): 5.725-5.850 GHz (21 channels)		Maximum 20 Watt		
		POWER OVER ETHERNET	Via RJ-45 Ethernet interface port		
		MANAGEMENT			
MODEL 2454-R	Americas (FCC): 2.4-2.4835 GHz (13 channels)	LOCAL	RS-232 serial (RJ11 and DB-9)		
	Europe (ETSI): 2.4-2.4835 GHz (13 channels)	REMOTE	Telnet, Web GUI, TFTP SNMPv1/v2; MIB-II ; Ethernet-like MIB; Bridge; MIB; 802.3MAU; 802.11 MIB; Private MIB; ORINOCO MIB; RFC 1157; RFC 1213; RFC 1643; RFC 1493; RFC 2668		
MODEL 5054-R-LR	Japan (MKK): 2.4-2.497 GHz (14 channels) Americas (FCC): 5.25-5.35 GHz (15 channels)	SNMP			
	Americas (FCC): 5.725-5.850 GHz (21 channels)				
	54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25,1.5 Mbps	MTBF AND WARRANTY	100,000 hours; 1-yea		
PHYSICAL SPECS DIMENSIONS		PACKAGE CONTENTS	Tsunami QuickBridge.11 Model 2454-R, 5054-R, or 5054-R-LR Radios with Integrated Antennas (Qty 2)		
PACKAGED	22.5 x 15.5 x 14.75 in (571 x 394 x 375 mm)			oor-Rated Ethernet Cables (Qty 2) nounting brackets (Qty 2)	
UNPACKAGED	12.6 X 12.6 X 3.5 in (320 X 320 X 89 mm)			2454-R and 5054-R (Qty 2)	
WEIGHT			Country Specific Po	ower Cords (Qty 2)	
	35 lbs (15.9 kg)		<ul> <li>Ethernet Cable We</li> <li>Documentation</li> </ul>	eather-Proof Plugs (Qty 2)	
PACKAGED (per unit) UNPACKAGED (per unit)	6 lbs (2.72 kg)				
	6 lbs (2.72 kg)	RELATED PRODUCTS	<ul> <li>Software CD-ROM</li> </ul>	, 5054-R, 5054-R-LR, ORiNOCO Outdoor Mesh	

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

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