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 to 5.95 inclusive (and to 6.08 GHz with LR)) 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)

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, 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 5/10/20MHz 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 band 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-to-multipoint 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
PRODUCT MODELS

2454-QB-XX   Tsunami® QuickBridge.11 Model 2454-R Bundle
5054-QB-XX   Tsunami® QuickBridge.11 Model 5054-R Bundle
5054-QB-LR   Tsunami® QuickBridge.11 Model 5054-R-LR Bundle

PERFORMANCE & SCALABILITY

INTEGRATED ANTENNA
Model 5054-R-LR includes an integrated 21-dBi antenna; Model 2454-R includes an18-dBi antenna

EXTREME OPERATING TEMPERATURE
Rated for -35 to 65 Celsius or -37.5 to 149F Fahrenheit, the system can be deployed outdoors in hot or cold climates

MOST FLEXIBLE FREQUENCY & COVERAGE LOCATIONS SUPPORT
2.4 - 2.497 GHz; 5.15, 5, 5.5, 5.5, 5.5, 5.725, 5.775 - 5.85 GHz (including 5.8 GHz for UK licensed spectrum) 5.85 - 5.95 GHz, 5.6 - 6.0 GHz Russia

IN BANDS OF USE SUPPORT IS 2652, 2653, 2654, 2655, 2656, 2657
SWITCH BETWEEN BANDS 2652-2657 with software selectable frequencies. Model 5054-R can be deployed globally. Operators using 5.25 and 5.725, 5.85, 5.95 GHz frequency can reduce spare inventories

SNMP CHANNEL SUPPORT
Increase the number of non-overlapping frequency plans to 80 in 5 GHz and 13 in 2.4 GHz

SECURE & EASY TO MANAGE
Increase the number of frequency plans to 40+ non-overlapping in 5 GHz and 13 overlapping in 2.4 GHz

HIGHLY SECURE COMMUNICATIONS
Unlike the 802.11a/b/g standards, as a proprietary protocol, WORP® eliminates the possibilities of unauthorized snooping

INTER-RADIO AUTH
Mutual authentication embedded in WORP® protocol mitigates man-in-the-middle attacks

STRENGTHEN ENCRYPTION
Over the air transmission is encrypted using 128-bit AES

FLEXIBLE BANDWIDTH
Bi-directional bandwidth rate limiting allows service providers to offer tiered services; service can be provisioned instantly from the central office, without costly truck rolls

REMOTE MANAGEMENT
Supports flexible and secure remote management via Telnet, SNMP and web interfaces, with password protections

APPENDIX ALIGNMENT TOOL
Audible tone, visual aids via LEDs, and CLI with running statistics displaying real-time signal strength ease antenna installation

COMPREHENSIVE STATION STATISTICS
Unit and group statistics are available for monitoring, planning and management of a wireless network

INTERFACES
WIRELESS ETHERNET 10/100Base-TX Ethernet (RJ-45)
WIRELESS PROTOCOL WORP®

WIRELESS ETHERNET PROTOCOLS SUPPORT
IEEE 802.3u, 802.3ab, 802.3z, 802.3x

CRUISE CONTROL METHOD
OFDM

FREQUENCY BANDS

MODEL 5054-R
Americas [FCC]: 5.25-5.35 GHz (19 channels)
Europe (ETSI): 5.475-5.725 GHz (46 channels)
Europe (Russia): 5.15-5.75 MHz (82 channels)
Europe (Licensed in the UK): 5.725-5.85 MHz (21 channels)

MODEL 2454-R
Americas [FCC]: 2.4-2.497 GHz (13 channels)
Europe (ETSI): 2.4-2.4885 GHz (13 channels)
Japan [MII]: 2.4-2.497 GHz (14 channels)

MODEL 5054-R-LR
Americas [FCC]: 5.25-5.35 GHz (19 channels)
Europe (ETSI): 5.725-5.85 MHz (21 channels)
Europe (Russia): 5.15-5.75 MHz (82 channels)
Europe (Licensed in the UK): 5.725-5.85 MHz (21 channels)

DATA RATE
54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps

PHYSICAL SPECS

DIMENSIONS
PACKAGED 22.5 x 15.5 x 14.75 in (571 x 394 x 375 mm)
UNPACKAGED 12.6 x 12.6 x 3.5 in (320 x 320 x 89 mm)

WEIGHT
PACKAGED 35 lbs (15.9 kg)
UNPACKAGED 6 lbs (2.75 kg)

ENVIRONMENTAL SPECS

TEMPERATURE
OPERATING -35 to 65 Celsius or -37.5 to 149F Fahrenheit
STORAGE -55 to 65 Celsius or -49 to 149F Fahrenheit

HUMIDITY
OPERATIONAL Max 100% relative humidity (non-condensing)
STORAGE Max 100% relative humidity (non-condensing)

WATER AND DUST PROOF
IP67

ELECTRICAL (POWER INJECTOR)
Voltage 110 to 250 VAC
Output Current 400mA at 48V
POWER CONSUMPTION
Maximum 20 Watt
CONNECTED ETHERNET Via 10-45 Ethernet interface port

MANAGEMENT
LOCAL RS-232 serial (RJ11 and DB-9)
REMOTE Telnet, Web GUI, TFTP
SNMP SNMPv1/v2c, MIB-II; Ethernet-like MIB; Bridge MIB; 802.3AMAC, 802.11 MIB; Private MIB; ORINOCO MIB; RFC 1157; RFC 1213; RFC 1643; RFC 1493; RFC 2668

MTBF AND WARRANTY
100,000 Hours; 3 year on parts and labor

PACKAGE CONTENTS
Tsunami® QuickBridge.11 Model 2454-R, 5054-A, or 5054-R-LR Radios with Integrated Antennas (Qty 2)
Sets of wall/ pole mounting brackets (Qty 2)
Power Injectors for 2454-R and 5054-R (Qty 2)
Country Specific Power Cords (Qty 2)
Ethernet Cable Weather-Proof Plugs (Qty 2)
Documentation
Software CD-ROM

CPU INFO

RELATED PRODUCTS
Tsunami® MP.11 2454-R, 5054-R, Power Over Ethernet (PoE) Spare Power DC injector for Tsunami® MP.11 or QB.11 (R model ONLY) (P/N #: 69823), ServPack for Enhanced Support, Worldwide Extended Warranty

For latest technical specifications, please see http://www.proxim.com/products/ptpwireless/quickbridge.11-series

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DS_0814_QB11Series_US

Tsunami® QuickBridge.11 Series
Technical Specifications

APPLICATIONS

- Backhaul to a Central POP
  Avoid expensive installation and recurring charge of a second wire line backhaul to a remote virtual POP

- Leased Line Redundancy
  Eliminate recurring DS-3 leased line charges with one time installation charge of a QuickBridge.11 link

- Repeater
  Extend distance or overcome path blockage by adding point to point hops

- High-bandwidth Last Mile Access
  Use QuickBridge.11 to deliver TLS (Transparent LAN Services) to corporate parks

- Inter-POP Redundancy
  Avoid downtimes caused by a wireline backhaul failure by adding a QuickBridge.11 link as inter-POP redundancy

Proxim Wireless Corporation
www.proxim.com