Tsunami® QuickBridge.11 Series
Point-to-Point Wireless Bridge Bundle

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-Locatino 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

Proxim Wireless is a global pioneer of broadband wireless systems that deliver the quadruple play of video, voice, data and mobility. Regardless of the application, our end-to-end product portfolio enables partners to custom-build the wireless solution that fits customer’s specific needs. Our point-to-point wireless backhaul products are available through our extensive global channel networks.

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

Wireless Product Portfolio

- Tsunami® 8200 Series – PtP & PtMP product line delivering 300 Mbps plus data rate
- Tsunami®.11 Series – Our best selling Point-to-point and multipoint product line
- Tsunami® GX-810—Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- ORiNOCO® AP - The industry’s highest performance 802.11a/b/g/n access points

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**PRODUCT MODELS**

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<th>MODEL</th>
<th>DESCRIPTION</th>
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<td>5054-QR-DE</td>
<td>Tsunami QuickBridge.11 Model 2454-R Bundle</td>
<td>5054-QR-DE</td>
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<tr>
<td>5054-QR-LR</td>
<td>Tsunami QuickBridge.11 Model 5054-R LR Bundle</td>
<td>5054-QR-LR</td>
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**PERFORMANCE & SCALABILITY**

- **INTEGRATED ANTENNA**: Model 5054-R (DE) includes an integrated 21-dBi antenna; Model 2454-R includes an 18-dBi antenna.
- **EXTREME ENVIRONMENTAL TEMPERATURE**: Rated for -20°F to 149°F (-29°C to 65°C), the system can be deployed outdoors in hot or cold climates.
- **MOST FLEXIBLE FREQUENCY & CO-Locations SUPPORT**: 2.4 – 2.49 GHz (13 channels); 5.15-5.19 GHz (21 channels); 5.25-5.35 GHz (15 channels); 5.725-5.85 GHz (46 channels). With software selectable frequencies, Model 5054-R can be deployed globally. Operators using 5.25 and 5.725 GHz frequencies can enable independent use of multiple frequency bands across a single system.
- **TRI-BAND GPS SUPPORT**: Allows the system to automatically adjust to the best frequency for the desired location.
- **RANGE MANAGEMENT SUPPORT**: Increase the number of non-overlapping frequency plans to 40+ non-overlapping in 5 GHz and 13 overlapping in 2.4 GHz.

**SECURE & EASY TO MANAGE**

- **COMMUNICATION**: Utilizes the 802.11 specifications, as a proprietary protocol, WORP® eliminates the possibilities of unauthorized snooping.
- **STRENGTHENED ENCRYPTION**: Mutual authentication embedded in WORP® protocol mitigates man-in-the-middle attacks.
- **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 statistics displaying real-time signal strength ease antenna installation.

**COMPACT AND RUGGED DESIGN**

- **Interfaces**: 10/100BaseTX/100BaseFX (RJ-45).
- **PROTOCOLS**: WORP®; OFDM; QPSK; 64-QAM; 256-QAM; 1024-QAM; 802.11b/g/n; 802.16a/b/g/n (WiMAX); 802.11x RSN; 3GPP W-CDMA; 3GPP EDGE; TD-CDMA; 3GPP LTE; 3GPP UMTS.
- **FREQUENCY BANDS**:
  - **MODEL 5054-R**: American (FCC): 2.4-2.49 GHz (13 channels); America (FCC): 5.15-5.19 GHz (21 channels); Europe (ETSI): 5.725-5.85 GHz (46 channels); Europe (Russia): 5.25-5.35 GHz (15 channels). Supports flexible and secure remote management via Telnet, SNMP and web interfaces, with password protections. Moreover, the system supports 802.11n and 802.11ac standards, as a proprietary protocol, WORP® eliminates the possibilities of unauthorized snooping.
  - **MODEL 2454-R**: American (FCC): 2.4-2.49 GHz (13 channels); Europe (ETSI): 2.4-2.49 GHz (13 channels); Japan (MIIT): 2.4-2.49 GHz (14 channels). Supports flexible and secure remote management via Telnet, SNMP and web interfaces, with password protections.
  - **MODEL 5054-R-UK**: American (FCC): 2.4-2.49 GHz (13 channels); America (FCC): 5.15-5.19 GHz (21 channels); Europe (ETSI): 5.725-5.85 GHz (46 channels); China (MOI): 5.25-5.35 GHz (15 channels). Supports flexible and secure remote management via Telnet, SNMP and web interfaces, with password protections.

**ELECTRICAL (POWER INJECTOR)**

- **Input**: 100-240VAC 50/60Hz, 1.3A.
- **Output**: 48VDC 0.8A.
- **Power Consumption**: Maximum 30W.
- **Power Over Ethernet (PoE)**: Via RJ-45 Ethernet interface port.
- **Electrical (Power Injector)**: SKU 5054-QR-DE, 5054-QR-LR.

**APPLICATIONS**

- **Backhaul to a Central POP**: Avoid expensive installation and recurring charge of a second wireless 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 downtime caused by a wireless backhaul failure by adding a QuickBridge.11 link as inter-POP redundancy.

For detailed technical specifications, please see the [Tsunami® QuickBridge.11 Series technical specifications](http://proxim.com/products/wwwireless/backhaul/tsunami-quickbridge11-series).

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