



Tsunami QuickBridge.11 4954-R

High-Capacity Wireless Solutions for Public Safety

Proxim Wireless offers extremely reliable, secure, quickly and easily-deployable wireless solutions for Public Safety applications. Proxim's Public Safety product portfolio includes:

- **Tsunami MP.11 4954-R** – Capabilities of fixed and mobile WiMAX for public safety market
- **Tsunami QuickBridge.11 4954-R** – Point-to-Point Broadband Wireless system
- **Orinoco Public Safety Wi-Fi Mesh** – Outdoor and indoor mesh access points for edge of network

Proxim Wireless is a global provider of scalable broadband wireless networking public safety solutions. 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 Broadband Wireless Solutions for Public Safety Applications

The Tsunami QuickBridge.11 4954-R operates in the licensed frequency spectrum of 4.940-4.990 GHz and comes complete with a set of accessories to ease outdoor installations.

As the most cost-effective point-to-point solution from Proxim, all deployments will enjoy a quick return on investment.

- Suitable for state, municipal hotspot backhaul and fixed links
- FCC certified for public safety
- High quality and reliability wireless bridges
- Enables local and state governments to deploy a complete Public Safety solution

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

Tsunami QuickBridge.11 4954-R bundle is 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 bundle 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

Synergy with Tsunami MP.11 4954-R Point-to-Multipoint Systems

Maximum synergy is realized when deployed in conjunction with Tsunami MP.11 4954-R 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 4954-R implements tiered security layers for the most secure outdoor communication in the licensed 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

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Technical Specifications

PRODUCT MODEL	Tsunami QuickBridge.11 4954-R
DESCRIPTION	Tsunami QuickBridge.11 Model 4954-R Bundle
PERFORMANCE & SCALABILITY	
INTEGRATED ANTENNA	Model 4954-QB includes integrated 21-dBi antennas on both radio units
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 climate
SECURE AND EASY TO MANAGE	
HIGHLY SECURE COMMUNICATION	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
STRONG 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
ANTENNA 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	
WIRED ETHERNET	10/100Base-TX Ethernet (RJ-45)
WIRELESS PROTOCOL	WORP
RADIO & TRANSMISSION SPECS	
MODULATION METHOD	OFDM (Orthogonal Frequency Division Multiplexing)
FREQUENCY BAND	Americas (FCC): 4.940-4.990 GHz (Licensed for public safety in U.S.)
DATA RATE	54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps
PHYSICAL	
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) – per radio unit
WEIGHT	
PACKAGED	37 lbs (16.8 kg)
UNPACKAGED	7 lbs (3.17 kg) – per radio unit

APPLICATIONS

- Security and Surveillance**
 Real-time transport of bandwidth-intensive and high-definition IP-surveillance data from cameras located at important city and transportation infrastructure such as airports, bridges and trains.
- Emergency First Responders**
 Quickly setup and backhaul critical information such as medical data and video feeds during in-progress events.
- Disaster Recovery**
 Build out entire public safety access networks in hours.
- Reliable and Secure Government Office Connectivity**
 Secure and reliable connectivity between city buildings to extend main network to remote offices without expensive leased lines.

ENVIRONMENTAL		MTBF AND WARRANTY	100,000 hours; 1-year on parts and labor
TEMPERATURE		PACKAGE CONTENTS	<ul style="list-style-type: none"> Tsunami QuickBridge.11 Model 4954-R Radios with 21 dBi Integrated Antennas (Qty 2) 50m (164 ft) Outdoor-Rated Ethernet Cables (Qty 2) Power Injectors for 4954-R (Qty 2) Wall/pole mounting brackets (Qty 2) US/CAN Power Cords (Qty 2) Cable Termination Kit (Qty 2) CD-ROM with Software and Documentation
OPERATING STORAGE	-33° to 60°C (-27.5° to 140° Fahrenheit) -55° to 80°C (-41° to 176° Fahrenheit)		
HUMIDITY		RELATED PRODUCTS	Tsunami MP.11 4954 Series, ORINOCO Outdoor Mesh AP (AP-4900MR-LR), ORINOCO Indoor Mesh AP (AP-4900M), Power Over Ethernet (PoE) Surge Arrestor (P/N #: 70251) Spare Power DC Injector for Tsunami MP.11 or QB.11 (P/N #: 69823), ProximVision™ NMS, ServPak for Enhanced Support (US/CAN Only), Worldwide Extended Warranty
OPERATING STORAGE	Max 100% relative humidity (non-condensing) Max 100% relative humidity (non-condensing)		
WATER & DUST PROOF	IP65		
ELECTRICAL (POWER INJECTOR)			
INPUT	Voltage 110 to 250 VAC		
OUTPUT	Current 420mA at 48V		
POWER CONSUMPTION	Maximum 20 Watt		
POWER OVER ETHERNET	Via RJ-45 Ethernet interface port		
MANAGEMENT			
LOCAL	RS-232 serial (RJ11 and DB-9)		
REMOTE	Telnet, Web GUI, TFTP		
SNMP	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		

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

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