Point to Multipoint FIPS 140-2 level 2 certified Radio operating in 4.4-5.8GHz bands at distances exceeding 50 miles

Advanced Security Protection

The Tsunami® MP.11 HS 4454 is an ultra-secure FIPS 140-2 level 2 certified PtMP solutions for Federal, DoD and NATO applications. It integrates hardware based AES-256 bit encryption and secure mgmt features into one single solution.

Adaptive Wireless Networks

The Tsunami® MP.11 HS 4454 employs advanced OFDM technology along with Proxim’s Wireless Outdoor Routing Protocol (WORP® ) to dynamically adapt to ever changing network loads for optimum performance.

Flexible Channel Planning Worldwide

Wide range of frequencies with support for 4.4 – 5.0 GHz (NATO) and unlicensed 5.2 – 5.8 GHz frequency bands using a single dual band radio.

Carrier-Grade QoS

Proxim’s QoS provides higher levels of prioritization with up to 512 service level classifications, enabling superior quadruple-play applications like video, voice, data and mobility with low latency.

Centralized Management

The ProximVision ES centralized network management system now supports Tsunami® MP.11 HS products, providing rapid network deployment and mobile configuration.

Fast Installation & Lower Maintenance

Audible tone and real-time signal strength measurement allows quick installation. Pelletier heating and cooling technology inside a ruggedized enclosure enable deployment in extreme weather conditions.

Available in Military Green and Desert Sand colors

Wireless Network Diagram Featuring Point to Multipoint Connections
**Tsunami® MP.11 4454**

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP.11 BSKR</td>
<td>Tsunami® MP.11 HS 4454 Ruggedized Base Station / Subscriber and Converter Amplifier (two (2) physical units) with PoE injector</td>
</tr>
</tbody>
</table>

**RADIO & TRANSMISSION**

- **PROTOCOL**: Wireless Outdoor Router Protocol (WORP®)
- **MODULATION METHODS**: GFSK 64
- **UNLICENCED FREQUENCIES**: 5.2 – 5.8 GHz
- **LICENSED FREQUENCIES (NATO)**: 4.4 – 5.0 GHz
- **CHANNEL SIZE**: 20, 10 and 5 MHz
- **DATA RATE**: 54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps
- **TX POWER**: 27 dBm at CA unit antenna ports

**CONNECTION**

- **ETHERNET CONNECTOR**: 245054_RC-BSU-G : One (1) R111 to DB9 dongle provided
- **ANTENNA CONNECTOR**: 245054_RC-BSU-G : Two (2) N-type connectors
- **SERIAL CONNECTOR**: 245054_RC-BSU-G : One (1) R111 (R111 to DB9 dongle provided)

**SECURITY**

- **FIPS CRYPTOLOGY**: FIPS 140-2 Level 2
- **WIRELESS ENCRYPTION**: 256-bit AES exceeds current requirements by NIST
- **SECURE WIRELESS PROTOCOL**: Wireless Outdoor Protocol (WORP®), Intracell blocking, BSU/SU mutual authentication
- **SECURE MANAGEMENT**: SSL, SSH, HTTPS

**MANAGEMENT**

- **LOCAL**: RS-232 Serial Port (R11 and DB9)
- **REMOTE**: SSL, SSH, Telnet, HTTPS

**SNMP**

- **SNMP**: SNMPv3; MIB; 802.3MAU; 802.11MIB; Private MIB; ORiNOCO® MIB; RFC 1157; RFC 1213; RFC 1493; RFC 2668

**POWER**

- **INPUT TO POE INJECTOR**: 90 – 264 VAC / 47 – 63 Hz
- **OUTPUT FROM POE INJECTOR**: Current max 1.2 A at 48 VDC
- **POWER CONSUMPTION**: Maximum 60 Watt
- **POWER OVER ETHERNET**: Via RJ-45 Ethernet Interface Port

**PHYSICAL SPECs**

- **DIMENSIONS (UNPACKAGED)**: 245054_RC-BSU-G : 10.79 x 11.14 x 3.38 in (274 x 283 x 86 mm)
- **WEIGHT (UNPACKAGED)**: 5044-CA : 7.33 lbs (3.35 kg)
- **WEIGHT (UNPACKAGED)**: 5044-CA : 7.93 lbs (3.6 kg)
- **ENVIRONMENT**
  - **TEMPERATURE**: 245054_RC-BSU-G / 5044-CA : -30° to +60° C (operating)
  - **TEMPERATURE**: 245054_RC-BSU-G / 5044-CA : -55° to +80° C (storage)
- **HUMIDITY**: 100% (non condensing)
- **IP RATING**: IP 67

**PACKAGE CONTENTS**

- One (1) Tsunami® MP.11 HS 245054_RC-BSUR-G
- One (1) Tsunami® 5044-CA
- Two (2) wall/pole mounting bracket
- One (1) power injector and country specific power cord
- One (1) CD with RF unit documentation and software
- One (1) Quick Start Guide printed documentation

**WARRANTY**

- 1 Year Parts and Labor

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**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

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.

**APPLICATIONS**

- **Military Application**
- **NATO and Unlicensed frequency band**
- **Provides optimal data**
- **Security for military transactions**
- **FIPS 140-2 level 2 certified**

For detailed technical specifications, please go to http://proxim.com/products/point-to-multipoint/tsunami-mp.11-4454

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