

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

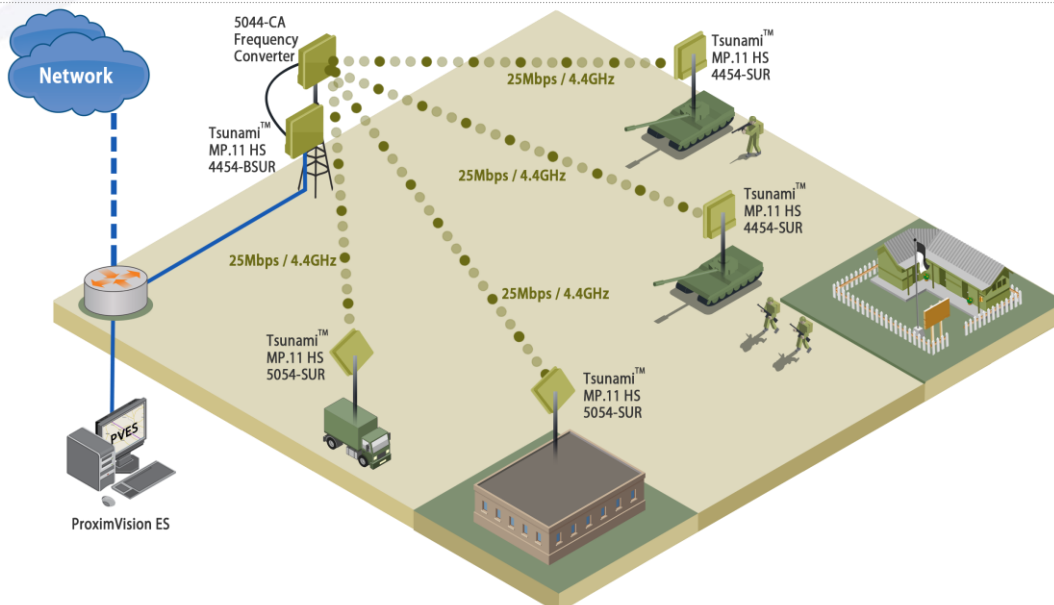


### Fast Installation & Lower Maintenance

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	Description
<b>PRODUCT MODELS</b>	
4454-BSUR	Tsunami® MP.11 HS 4454 Ruggedized Base Station / Subscriber and Converter Amplifier (two (2) physical units) with PoE injector
<b>RADIO &amp; TRANSMISSION</b>	
PROTOCOL	Wireless Outdoor Router Protocol (WORP® )
MODULATION METHOD	OFDM 64
UNLICENSED 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
<b>CONNEXION</b>	
ETHERNET CONNECTOR	245054_RC-BSU-G : One (1) RJ45 Auto-sensing 10/100baseT with PoE in 5044-CA : Two (2) RJ45 in pass-through mode - port #1 with PoE in - port #2 with PoE out (to power RF unit)
ANTENNA CONNECTOR	245054_RC-BSU-G : Two (2) N-type connectors 5044-CA : Four (4) N-type connectors - two (2) connectors to be linked to 245054_RC-BSU-G unit - one (1) connector to be linked to 4.4 – 5.0 GHz antenna - one (1) connector to be linked to 5.2 – 5.8 GHz antenna
SERIAL CONNECTOR	245054_RC-BSU-G : One (1) RJ11 (RJ11 to DB9 dongle provided) 5044-CA : One (1) RJ11 (for debug purpose only)
<b>SECURITY</b>	
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
<b>MANAGEMENT</b>	
LOCAL	RS-232 Serial Port (RJ11 and DB9)
REMOTE	SSH, SSL, Telnet, HTTPS
SNMP	SNMPv3; MIB-II, Ethernet-like MIB; 802.3MAU; 802.11MIB; Private MIB; ORINOCO MIB; RFC 1157; RFC 1213; RFC 1643; RFC 1493; RFC 2668
<b>POWER</b>	
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
<b>PHYSICAL SPECS</b>	
DIMENSIONS (UNPACKAGED)	245054_RC-BSU-G : 10.79 x 11.14 x 3.38 in (274 x 283 x 86 mm) 5044-CA : 10.79 x 11.14 x 3.38 in (274 x 283 x 86 mm)
WEIGHT (UNPACKAGED)	245054_RC-BSU-G : 7.38 lbs (3.35 kg) 5044-CA : 7.93 lbs (3.6 kg)
<b>ENVIRONMENT</b>	
TEMPERATURE	245054_RC-BSU-G / 5044-CA : -30° to +60° C (operating) 245054_RC-BSU-G / 5044-CA : -55° to +80° C (storage)
HUMIDITY	100% (non condensing)
IP RATING	IP 67
PACKAGE CONTENTS	<ul style="list-style-type: none"> <li>■ One (1) Tsunami® MP.11 HS 245054_RC-BSUR-G</li> <li>■ One (1) Tsunami 5044-CA</li> <li>■ Two (2) wall/pole mounting bracket</li> <li>■ One (1) power injector and country specific power cord</li> <li>■ One (1) CD with RF unit Documentation and Software</li> <li>■ One (1) Quick Start Guide printed documentation</li> </ul>
WARRANTY	1 Year Parts and Labor

### Wireless Product Portfolio

- **Tsunami® 8000 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® GX800**– Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- **Tsunami® QB 62000**– High capacity, small footprint PtP backhaul solution with 1Gbps throughput
- **ORINOCO® AP** - The industry's highest performance 802.11a/b/g/n access points

*Proxim Wireless is a global provider of wireless systems that deliver the quadruple play. From Wi-Fi to wireless Gigabit Ethernet - our WLAN, mesh, WiMAX and point-to-point 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/tsunamiir-mp11-hs-4454>

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