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 (NAT0) 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
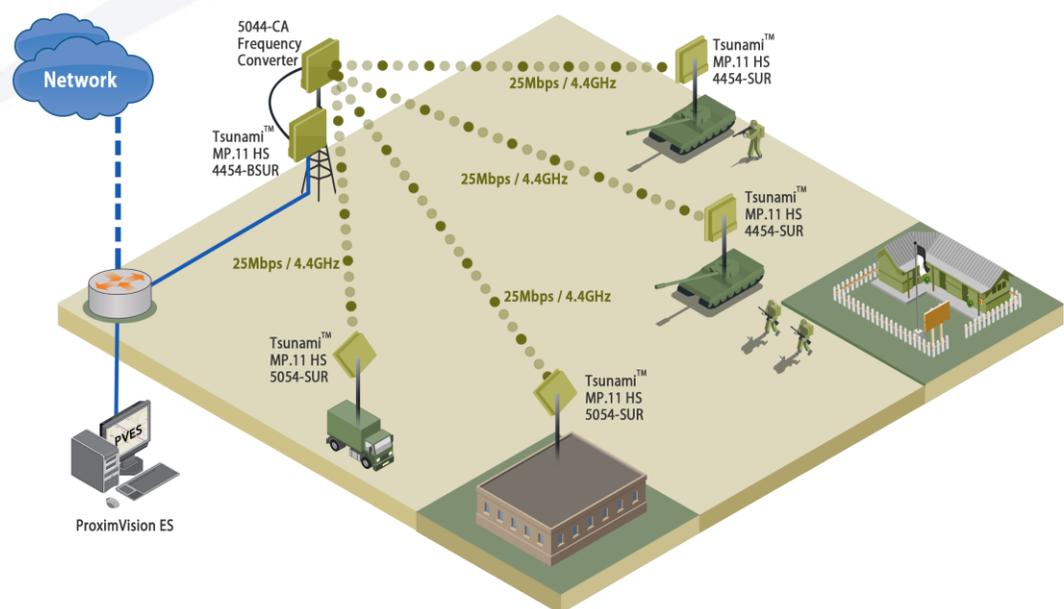
Centralized Management

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
PRODUCT MODELS	
4454-BSUR	Tsunami™ MP.11 HS 4454 Ruggedized Base Station / Subscriber and Converter Amplifier (two (2) physical units) with PoE injector
RADIO & TRANSMISSION	
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
CONNEXION	

ETHERNET CONNECTOR	245054_RC-BSU-G : One (1) RJ45 Auto-sensing 10/100baseT with PoE in
	5044-CA : Two (2) RJ45 in pass-trough 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)
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 (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
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) 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)
ENVIRONMENT	
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	■ 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

End-to-End Broadband Wireless Product Portfolio

Tsunami®MP.11 – *Our best selling Point-to- Multipoint product line*

MeshMAX – *An all-in-one solution containing Point-to-Multipoint, Wi-Fi mesh, and Wi-Fi access point radios*

ORiNOCO®AP – *The industry's highest performance 802.11a/b/g/n access points*

Tsunami®MP.16 – *WiMAX for the 3.3 – 3.65 GHz frequency bands*

Proxim Wireless *is a global provider of end-to-end broadband 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/tsunamir-mp11-hs-4454