

# Multipoint 10100S



## **Product Snaphot**

The most secure version of the Multipoint 10100 product family, the 10100S Series adds 256 Bit AES Encryption to meet the needs of military and other applications that require the best possible security. The model range includes several base station and subscriber units capable of throughput up to 672Mbps.

- AES 256 encryption and Radius authentication
- Radio mutual authentication eliminates unauthorized use of the system.
- Wide Band 4.9 + 5 GHz Radio
- 2×2 MIMO radio delivering up to 672 Mbps
- Advanced QoS for quad-play applications
- 20, 40, and 80 MHz channels.

## Powered by WORP®

Proxim WORP enables the most efficient wireless broadband access possible in a packet-based network. Advanced QoS controls, committed interface rates, latency controls, IGMP snooping, and native multicast support allow granular service level management and the best video performance available in this product class.

## **Advanced Interference Management**

Proxim ClearConnect<sup>™</sup> combines multiple dynamic technologies and delivers the best interference management solution available.

## **Highly Secure**

AES 256 Bit encryption with Radius-based authentication and secure management through SSL/TLS1.2, SSH, and SNMPv3. The 10100S Series also uses a proprietary data encapsulation scheme that not only improves video and voice performance, but adds another layer of security.

## **Rugged Reliability**

IP67 rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

#### Specifications

### PRODUCT MODELS

MP-10100S-BSU-WD	Tsunami® MP 10100 Base Station, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	PN: 901-00362
MP-10150S-BS9-WD	Tsunami® MP 10150 Base Station, AES 256, 867 Mbps, MIMO 2x2, 90° sector antenna	PN: 901-00363
MP-10100S-SUA-WD	Tsunami® MP 10100 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	PN: 901-00364
MP-10150S-SUR-WD	Tsunami® MP 10150 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna	PN: 901-00365

#### INTERFACES

WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)
WIRELESS PROTOCOL	WORP® (Wireless Outdoor Router Protocol)

#### RADIO & TX SPECS

MIMO	2x2:2
MODULATION	OFDM with BPSK, QPSK, QAM16, QAM64, QAM256
FREQUENCY	4.900 – 5.925 GHz (Subject to Country Regulations)
CHANNEL SIZE	80 MHz, 40 MHz and 20 MHz
DATA RATE	MCS 0 to 9 with Dynamic Data Rate Selection
TX POWER	Up to 28 dBm (dual chain)
TX POWER CONTROL	0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

	80 MHz	40 MHz	20 MHz
TX POWER (dual RF)	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm
	MCS9: 21 dBm	MCS9: 22 dBm	MCS9: 25 dBm
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm
	MCS9: -68 dBm	MCS9: -71 dBm	MCS9: -74 dBm
THROUGHPUT (RFC 2544)	Up to 674 Mbps	Up to 324 Mbps	Up to 137 Mbps
OTHER	Dynamic Channel Selection (DCS) based on interference detection, Dynamic Frequency Selection (DFS) based on radar signature Automatic Transmit Power Control (ATPC) with EIRP limit support		

#### MANAGEMENT

REMOTE	Telnet and SSH, Web GUI and SSL/TLS, TFTP, SNMPv3
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB
OTHER	Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer
Multi-Language Support	Web Interface available in English, French, Spanish and Chinese

#### SYNCHRONIZATION

Pass-trough SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization

#### SECURITY

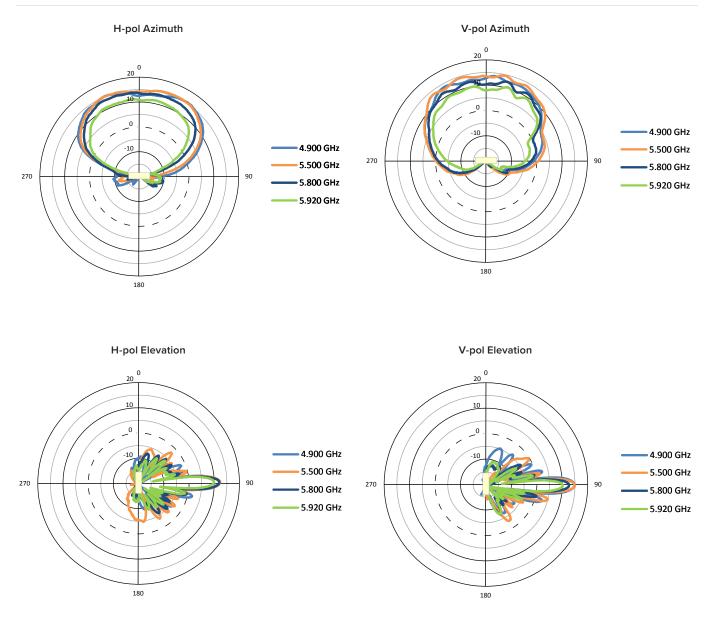
ENCRYPTION	AES 128
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

#### ANTENNA

MP-10100S-BSU/SUA MP-10150S-BS9 MP-10150S-SUR Two N-type Connectors with built-in Surge Protection Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna

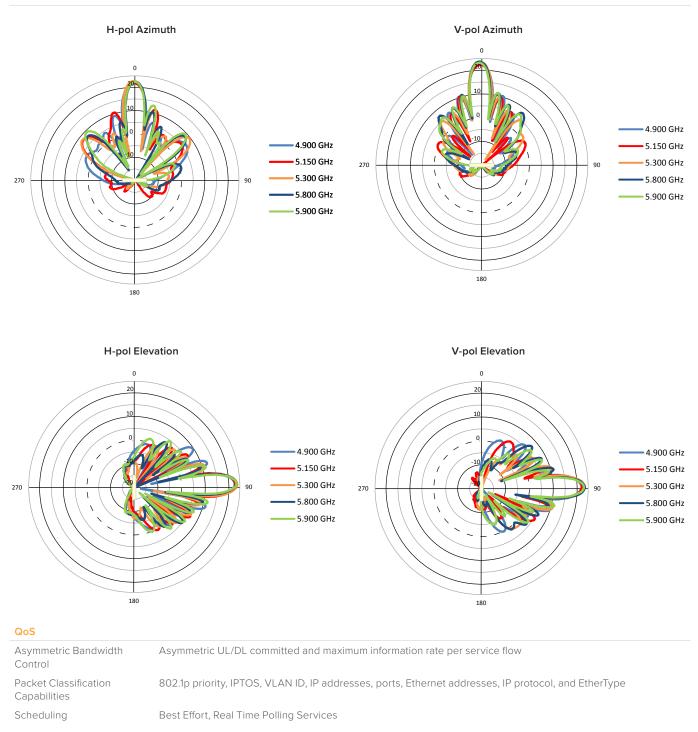
#### ANTENNA PATTERNS (Sector Mode)

MP-10150S-BS9



#### ANTENNA PATTERNS (Sector Mode)

MP-10150S-SUR



#### NETWORK

MODES	Bridging, Routing (RIP v2 and IP tunneling)
IP STACK	IPv4 and IPv6 simultaneously
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging

#### INPUT

#### OUTPUT

36 to 56 VDC via Ethernet port1 (Power over Ethernet) 48 to 56 VDC – 25 Watt on Ethernet port2 12 VDC via Access port Power should not be provided simultaneously on both 12 VDC on Access port ports

(PoE – software controlled)

#### POWER CONSUMPTION

14 Watt typical, 17.5 Watt maximum

ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING
	-40° to 60°C (-40° to 140° Fahrenheit)	-50° to 70°C (-58° to 158° Fahrenheit)	100% relative humidity - IP67	200 km/h (125 Mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS NPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-10100S-BSU/SUA	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)	9.92 lbs (4.5 kg)	4.20 lbs (1.9 kg)
MP-10150S-BS9	18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)	14 x 14 x 3.40 in (370 x 370 x 85 mm)	13.67 lbs (6.2 kg)	7.27 lbs (3.3 kg)
MP-10150S-SUR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	10.91 lbs (4.95 kg)	5.30 lbs (2.4 kg)

#### SAFETY STANDARDS

IEC 62368-1:2016 & 60950-22:2016 UL 62368-1 2nd edition & 60950-22 2nd edition CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17 EN 62368-1:2014 + A11:2017 & 60950-22:2017

#### CERTIFICATIONS

USA	FCC 90Y + 15E (UNII 15.247)
CANADA	IC RSS 102 + RSS 111 + RSS 247
EUROPE	RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502
RAILWAY	EN 50155 + EN 50121 + EN 61373

#### PACKAGE CONTENTS

One Tsunami® MP-10100S-BSU/SUA with two N-type surge protected connectors One Tsunami® MP-1015-05_DS0/GLIP with integrated club enlarged extenses
Or One Tsunami® MP-10150S-BS9/SUR with integrated dual polarized antenna
One power injector and country specific power cord
One Connector weatherproofing kit (Includes all recommended weatherproofing material)
One Wall / Pole mounting kit
One Antenna alignment (RJ11) dongle
One Grounding kit
One Quick Installation Guide

#### **MTBF & WARRANTY**

>250 000 hours, 2-year warranty, ServPak Extended Support available.

## **ABOUT PROXIM WIRELESS:**

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications. Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.

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