



Enhance wireless security with Multipoint 10100S series built in AES 256 capability

The Multipoint 10100S is an extremely secure version of the Multipoint 10100, a very high throughput, high power, especially reliable and cost-effective, near-line-of-sight point-to-multipoint wireless solution.

World Class Performance

- Point-to-Multipoint system that delivers up to 866 Mbps data rate and covers distances up to 10 miles (16 km).
- Dual IPv4 and IPv6 stacks for transparent evolution to tomorrow's networks.
- Triple level login with monitoring, simplified or advanced web interfaces.
- Built-in feature rich network protocols for bridging, routing and gateway functionality.
- High Speed Mobility up to 185 mph (295 km/h).

Frequency Agnostic

- Operates in unlicensed bands from 4.900 to 5.925 GHz.
- Flexible RF planning with 20, 40 and 80 MHz channel sizes.

Near-Line-of-Sight and Advanced Features

- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios.
- Performs deep packet inspection (DPI) to create unique and sophisticated service rules and tiered service classes with ease.
- BSU redundancy (500 milliseconds switch over time) and Dynamic Channel Selection to ensure continuity of services whatever the conditions.
- Spectrum analyzer to analyze frequency bands for interference, and select the best available channel.

Carrier-Grade Solution

- Implements AES 256 encryption and Radius authentication for the most secure outdoor wireless communications in the unlicensed frequency spectrum.
- Utilizes Proxim's Wireless Outdoor Routing Protocol (WORP®), which prevents snooping, and features highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3.
- Features Ethernet ports with pass-through IEEE 1588v2 synchronization and support for 9k Jumbo frames.

Key Technologies

The Multipoint 10100S supports the following features that make it ideal for video surveillance, Government or mobility applications that need ultra-secure very high-speed broadband wireless access:

Proxim WORP®

Combines network access control, data scheduling, advanced QoS and encryption to ensure highly efficient and secure data transmission.

Proxim ClearConnect™

A suite of interference mitigation technologies ensuring robust and reliable communications in high-density wireless deployments.

Proxim FastConnect™

Mobility technology that delivers rapid hand-off between fixed base stations and moving vehicles to ensure uninterrupted broadband at speeds up to 295 km/h (185 mph).

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.

Rugged and Reliable

Designed for harsh environments, the Multipoint 10100S is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature extremes.

Product Line Compatibility

- Connects to all existing MP-10200, MP-10100, MP-10100L, MP-8200, MP-820 and MP-830 products.
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller.

Multi-Language Support

Web Interface available in English, French, Spanish and Chinese

Specifications

PRODUCT MODELS				PART NUMBERS		
MP-10100S-BSU	Tsunami® MP 10100 Base Station, AES	901-00294 MP-10100S-BSU-US 901-00362 MP-10100S-BSU-WD				
MP-10150S-BS9	Tsunami® MP 10150 Base Station, AES	901-00296 MP-10150S-BS9-US 901-00363 MP-10150S-BS9-WD				
MP-10100S-SUA	Tsunami® MP 10100 Subscriber Unit, A	901-00295 MP-10100S-SUA-US 901-00364 MP-10100S-SUA-WD				
MP-10150S-SUR	Tsunami® MP 10150 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna			901-00297 MP-10150S-SUR-US 901-00365 MP-10150S-SUR-WD		
INTERFACES						
WIRED ETHERNET WIRELESS PROTOCOL	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data) WORP® (Wireless Outdoor Router Protocol)					
RADIO & TX SPECS						
MIMO MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER CONTROL	2x2:2 OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 4.900 – 5.925 GHz (Subject to Country Regulations) 80 MHz, 40 MHz and 20 MHz MCS 0 to 9 with Dynamic Data Rate Selection Up to 28 dBm (dual chain) 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	MCS0: 28	MCS0: 29	ICS0: 29		
	MCS9: 21	MCS9: 22	MCS8: 25	MCS8: 25		
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94			
	MCS9: -68	MCS9: -71	MCS8: -74			
THROUGHPUT (RFC 2544)	Up to 672 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					
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					
MANAGEMENT						
REMOTE SNMP OTHER Multi-Language Support	Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer Web Interface available in English, French, Spanish and Chinese					

SYNCHRONIZATION						
	Pass-trough SyncE and Precision	Time Protocol (IEEE 1588v2) E	thernet Synchronization			
SECURITY						
ENCRYPTION AUTHENTICATION	AES 128 and AES 256 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)					
QoS			· · · · · · · · ·			
Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling	Asymmetric UL/DL committed and maximum information rate per service flow 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType Best Effort, Real Time Polling Services					
NETWORK						
MODES IP STACK GATEWAY FEATURES VLAN	Bridging, Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging					
POWER	INPUT		OUTPUT			
	36 to 56 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports		48 to 56 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port			
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 UNPACKAGED	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 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						
	MTBF over 250 000 hours & 2-ye	ear warranty with ServPak Exte	ended Support available.			

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