



## 通过内置 AES 256 功能的 Multipoint 10100S 系列增强无线安全性

Multipoint 10100S 是 Multipoint 10100 的极其安全的版本，是一种非常高的吞吐量、高功率、特别可靠且具有成本效益的近视距点对多点无线解决方案。

### 世界一流的性能

- 点对多点系统可提供高达 866 Mbps 的数据速率并覆盖最远 10 英里 (16 公里) 的距离。
- 双 IPv4 和 IPv6 堆栈可透明地向未来网络演进。
- 具有监控、简化或高级 Web 界面的三级登录。
- 内置功能丰富的网络协议，用于桥接、路由和网关功能。
- 高达 185 英里/小时 (295 公里/小时) 的高速机动性。

### 频率不可知

- 在 4.900 至 5.925 GHz 的未授权频段中运行。
- 具有 20、40 和 80 MHz 信道大小的灵活射频规划。

### 近视距和高级功能

- 具有带 PoE 输出的双千兆以太网端口，可为监控摄像头或其他无线电等其他设备供电。
- 执行深度数据包检测 (DPI) 以轻松创建独特而复杂的服务规则和分层服务类别。
- BSU 冗余 (500 毫秒随时间切换) 和动态信道选择可确保在任何条件下服务的连续性。
- 频谱分析仪分析干扰频段，并选择最佳可用频道。

### 运营商级解决方案

- 实施 AES 256 加密和 Radius 身份验证，以在未经许可的频谱中实现最安全的户外无线通信。
- 利用 Proxim 的无线室外路由协议 (WORP<sup>®</sup>)，可防止窥探，并通过 SSL/TLS1.2、SSH 和 SNMPv3 实现高度安全的远程管理。
- 具有直通 IEEE 1588v2 同步和支持 9k 巨型帧的以太网端口。

### 实现技术

Multipoint 10100S 支持以下功能，这些功能使其成为需要超安全、超高速宽带无线接入的视频监控、政府或移动应用的理想选择：

#### Proxim WORP<sup>®</sup>

-结合网络访问控制、数据调度排队、高级QoS和加密，以确保高效和安全的数据传输。

#### Proxim ClearConnect<sup>™</sup>

一套确保在高密度无线部署中进行稳定和可靠通信的干扰缓解技术。

#### Proxim FastConnect<sup>™</sup>

移动技术在固定基站和移动车辆之间提供快速切换，以确保不间断的宽带接入，支持速度达到295公里/小时 (185英里/小时)

## 关于Proxim Wireless

Proxim Wireless 是提供高性能和高可用性通信的高级无线宽带和 WiFi 解决方案的全球领导者。

Proxim 庆祝 40 年来开创性的无线解决方案，以无与伦比的可靠性、卓越的性能和对创新的驱动力而获得认可。

### 强大且可靠

Multipoint 10100S 专为恶劣环境而设计，完全符合 IP67 防护等级，可在大风，高盐和高温极端条件下提供多年可靠的服务。

### 产品系列的兼容性

- 连接所有现有的 MP-10200, MP-10100, MP-10100L, MP-8200, MP-820和MP-830产品。
- 完美集成在 ProximVision<sup>®</sup> 高级云端运营商管理系统和控制器中。

## 多语言支持

Web界面提供英语, 法语, 西班牙语和中文

## 规格

PRODUCT MODELS		PART NUMBERS		
MP-10100S-BSU	Tsunami® MP 10100 Base Station, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	901-00294	MP-10100S-BSU-US	
MP-10150S-BS9	Tsunami® MP 10150 Base Station, AES 256, 867 Mbps, MIMO 2x2, 90° sector antenna	901-00296	MP-10150S-BS9-US	
MP-10100S-SUA	Tsunami® MP 10100 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	901-00363	MP-10150S-BS9-WD	
MP-10150S-SUR	Tsunami® MP 10150 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00295	MP-10100S-SUA-US	
		901-00364	MP-10100S-SUA-WD	
		901-00297	MP-10150S-SUR-US	
901-00365	MP-10150S-SUR-WD			
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	MCS0: 28	MCS0: 29	
	MCS9: 21	MCS9: 22	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	Two N-type Connectors with built-in Surge Protection			
MP-10150S-BS9	Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna			
MP-10150S-SUR	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna			
MANAGEMENT				
REMOTE	Telnet and SSH, Web GUI and SSL, 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-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization			
SECURITY				
ENCRYPTION	AES 128 and AES 256			
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)			
QoS				
Asymmetric Bandwidth Control	Asymmetric UL/DL committed and maximum information rate per service flow			
Packet Classification	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			
Capabilities				
Scheduling	Best Effort, Real Time Polling Services			

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			
POWER	INPUT		OUTPUT	
	36 to 56 VDC via Ethernet port1 (Power over Ethernet)		48 to 56 VDC – 25 Watt on Ethernet port2 (PoE – software controlled)	
	12 VDC via Access port		12 VDC on Access port	
	Power should not be provided simultaneously on both ports			
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				
	<ul style="list-style-type: none"> <li>• 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</li> <li>• One power injector and country specific power cord</li> <li>• One Connector weatherproofing kit (Includes all recommended weatherproofing material)</li> <li>• One Wall / Pole mounting kit</li> <li>• One Antenna alignment (RJ11) dongle</li> <li>• One Grounding kit</li> <li>• One Quick Installation Guide</li> </ul>			
MTBF & WARRANTY				
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available.			