



## 6.4 GHz无线系列产品, 适用于WISP和移动应用

Tsunami<sup>®</sup> MP-8260系列产品是我们6.4 GHz点对多点系列中的最新产品。它们支持在40 MHz信道上提供高达300 Mbps的数据速率。Tsunami<sup>®</sup> MP-8260专为与MP-826-CPE和MP-826-CPA产品配合使用而设计, 具有最新Tsunami<sup>®</sup> MultiPoint产品的所有功能, 更具有6.4 GHz频段的优势。

Tsunami<sup>®</sup> MP-8260基站与MP-826-CPE相结合, 是大规模无线部署的理想解决方案, 为规划无线宽带最后一英里接入部署的WISP提供了卓越的价值提案。

该平台还具有运营商级优先级平台, 支持多种服务类别, 能够优先处理语音、视频和数据应用, 以实现客户服务功能的精细化管理。

## 价值高, 使用寿命长

高可靠性, 免许可证频段和与过去, 现在和未来的Proxim基站型号兼容集于一体, 确保其较长的使用寿命和良好的投资回报。

- Tsunami<sup>®</sup> MP-8260系列专为恶劣环境而设计, 完全符合IP67防护等级标准, 可在大风, 高盐 and 高温环境中提供多年可靠的服务

## 灵活、快速和安全

- 旨在提供高达300 Mbps的数据处理量。
- 提供灵活的信道规划, 支持5.900至6.425 GHz
- 配备2x2 MIMO高功率无线电, 发射功率为25 dBm
- 通过AES-128高级加密保护无线传输
- 使用Proxim的无线室外路由协议 (WORP<sup>®</sup>) 来防止窥探
- 无线电相互认证消除了恶意用户单元对系统的未授权使用和中间人的攻击

## 近视距和高级功能

- 具有双千兆以太网端口, PoE输出可为其他设备, 如监控摄像头或其他无线电设备供电
- 执行深度数据包检查 (DPI) 以创建独特和复杂的服务规则, 轻松分层服务级别
- BSU冗余 (500毫秒切换时间) 和动态信道选择, 无论什么条件都能确保服务的连续性
- 频谱分析仪用于分析干扰频段, 并选择最佳可用频道

## 运营商级解决方案

- 为未许可的频谱中最安全的室外无线通信实施AES加密和远程认证拨入用户服务身份验证
- 利用Proxim的无线室外路由协议 (WORP<sup>®</sup>) 来防止窥探, 并通过SSL/TLS1.2, SSH和SNMPv3实现高度安全的远程管理
- 具有以太网端口, 具有直通IEEE 1588v2同步功能, 支持9k 巨型帧。

## 实现技术

### 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™

一套确保在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™

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是全球先进的Wi-Fi、点对点、点对多点户外无线系统的先驱和领头羊, 该系统用于建立关重要任务和高度可用性通信。

Proxim公司拥有超过30年的无线电方面的经验, 以其无与伦比的可靠性, 卓越的性能和创新动力而闻名。

## 产品系列的兼容性

- 连接自2014年第2季度以来发布的Tsunami® MP-8160 (修订版10或更高版本) 和MP-826产品
- 完美集成在ProximVision®高级云端运营商管理系统和控制器中

## 规格

PRODUCT MODELS		PART NUMBERS			
MP-8260-BSU-WD	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors	901-00286 MP-8260-BSU-WD			
MP-8260-BS9-WD	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, 16dBi, 90° sector antenna	901-00287 MP-8260-BS9-WD			
MP-8260-SUA-WD	Tsunami MP-8260 Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors	901-00194 MP-8260-SUA-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				
FREQUENCY	5.900 – 6.425 GHz (Subject to Country Regulations)				
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz, 5 MHz				
DATA RATE	MCS 0 to 9 with Dynamic Data Rate Selection				
TX POWER	Up to 25 dBm (dual chain)				
TX POWER CONTROL	0 - 22 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit				
	40 MHz	20 MHz	10 MHz	5 MHz	
TX POWER	MCS0: 25	MCS0: 25	MCS0: 25	MCS0: 25	
	MCS7: 20	MCS8: 20	MCS8: 20	MCS8: 20	
	MCS8: 25	MCS8: 25	MCS8: 25	MCS8: 25	
	MCS15: 20	MCS8: 20	MCS8: 20	MCS8: 20	
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -92	MCS0: -95	MCS0: -97	
	MCS7: -69	MCS8: -72	MCS8: -75	MCS8: -77	
	MCS8: -88	MCS8: -90	MCS8: -93	MCS8: -96	
	MCS15: -61	MCS8: -68	MCS8: -70	MCS8: -73	
THROUGHPUT	Up to 222 Mbps	Up to 121 Mbps	Up to 50 Mbps	Up to 22 Mbps	
OTHER	Dynamic Channel Selection (DCS) based on interference detection Automatic Transmit Power Control (ATPC) with EIRP limit support				
ANTENNA					
MP-8260-BSU/SUA	Two N-type Connectors with built-in Surge Protection				
MP-8260-BS9	Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector 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				
SYNCHRONIZATION					
	Pass-through IEEE 1588v2 Ethernet Synchronization				
SECURITY					
ENCRYPTION	AES 128				
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 57 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports		48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port	
<b>POWER CONSUMPTION</b>				
	18 Watt typical			
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 (124.2 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-8260-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-8260-BS9	18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)	14.57 x 14.57 x 4.21 in (370 x 370 x 107 mm)	13.67 lbs (6.2 kg)	7.27 lbs (3.3 kg)
<b>SAFETY STANDARDS</b>				
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)			
<b>PACKAGE CONTENTS</b>				
	<ul style="list-style-type: none"> <li>• One Tsunami® MP-8260-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-8260-BS9 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>			
<b>MTBF &amp; WARRANTY</b>				
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available.			