



## 旨在噪声环境中使带宽和链路可靠性最大化

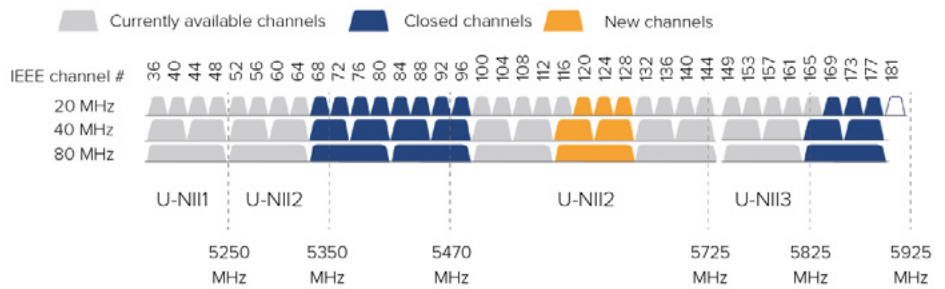
Multipoint 10250 BeamX产品系列结合采用波束指向天线和一个二次前瞻性扫描无线电，以避免干扰，最大限度地利用现有的无线电频谱。Multipoint10250顺利实现了10000条产品线，在高环境射频干扰中也能非常稳定，提供更多的Mbps，并开辟其他5GHz频谱。

## 快速、安全和灵活

- 点到多点基站和用户单元的数据速率高达866 Mbps，覆盖10英里(16公里)的距离
- 通过SSL/TLS1.2、SSH和SNMPv3实现AES 128加密、(可升级到AES-256) RADIUS认证和高度安全的远程管理
- 基于服务流的QoS与深度包检测技术(DPI)，确保关键数据优先到达
- 内置功能丰富的网络协议，实现IPv4和IPv6桥接、路由和网关功能

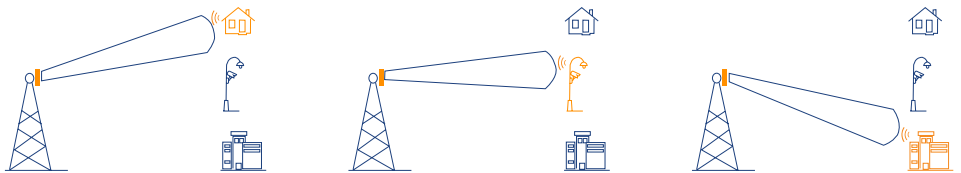
## Proxim SmartScan™

- 对整个RF频谱进行背景分析，并创建通道可用性表，以便在天气雷达探测或干扰时立即切换到空闲通道
- SmartScan能够消除初始传输延迟，使DFS信道更加高效
- 它还开放了对5.600–5.650GHz子频段的访问，并能够有效使用高达355 MHz的DFS频谱



## BeamX™天线

- 智能天线波束宽度约为17°，通过电子方式将自身引导至宽度为60°的远程用户单元，以限制来自附近RF源的干扰
- 通过改善无线电信噪比 (SNR)，BeamX可实现更高的调制，从而提高吞吐量
- BeamX通过移除天线对准相位加快部署。BeamX技术主要针对远端进行微调，优化信噪比



## 强大且可靠

Multipoint 10250 BeamX产品专为恶劣环境设计，完全达到IP67防护安全级别，在大风、高盐 and 高温极端环境条件中将能提供多年的可靠服务。

## 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。

## 主要技术

Multipoint 10250-BeamX设备支持以下应用功能的, 包括last mile接入网技术或视频监控, 两者都需要优先级和连续高速宽带无线访问

### Proxim WORP®

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™

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 SmartConnect™

通过运用波束控制天线与辅助扫描无线电相结合的方式, 来寻找、管理和选择最佳通信频道, 在存在嘈杂射频的地方提供优异的性能。

## 产品系列的兼容性

- MP-10250-BSX连接到所有现存的 MP/XP 10100、MP-10100L、MP-8200、MP-820和MP-830产品
- MP-10250-SRX仅链接 MP-10250-BSX
- 完全集成于ProximVision®基于云的高级载波管理系统和控制器

## 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-10250-BSX	Tsunami® MP 10250 Base Station Unit, 867 Mbps, MIMO 2x2, 16 dBi BeamX antenna, Scan radio	901-00291	MP-10250-BSX-US	
MP-10250-SRX	Tsunami MP 10250 Subscriber Unit, 867 Mbps, MIMO 2x2, BeamX antenna, SmartScan radio	901-00292	MP-10250-BSX-WD	
		901-00340	MP-10250-SRX-US	
		901-00341	MP-10250-SRX-WD	
LICENSE UPGRADES				
MP-102x0-BSx-AES256-UPG	Tsunami MP 10200 Base Station, AES 128 to AES 256 license upgrade	997-00050		
MP-102x0-SUx-AES256-UPG	Tsunami MP 10200 Subscriber Unit, AES 128 to AES 256 license upgrade	997-00049		
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 and 0x2:2 (scan radio)			
MODULATION	OFDM with BPSK, QPSK, QAM16, QAM64, QAM256			
FREQUENCY	4.900 – 5.850 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	SCAN RADIO
TX POWER (dual RF)	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm	N/A
	MCS9: 21 dBm	MCS9: 22 dBm	MCS8: 25 dBm	
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm	N/A
	MCS9: -68 dBm	MCS9: -71 dBm	MCS8: -74 dBm	
THROUGHPUT	Up to 672 Mbps	Up to 324 Mbps	Up to 137 Mbps	N/A
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.			

<b>ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:</b>				
Beam Width	17° spanning over ± 30° sector			
Receive Gain	16 dBi (11 dBi before 5.150 GHz)			
Transmit Gain	20 dBi (11 dBi before 5.150 GHz)			
<b>MANAGEMENT</b>				
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 Chinese, English, French and Spanish			
<b>SYNCHRONIZATION</b>				
	Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization			
<b>SECURITY</b>				
ENCRYPTION	AES 128			
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)			
<b>QoS</b>				
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			
<b>NETWORK</b>				
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			
<b>POWER</b>		<b>INPUT</b>		<b>OUTPUT</b>
	36 to 57 VDC via Ethernet port1 (Power over Ethernet)		48 to 57 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			
<b>POWER CONSUMPTION</b>				
	30 Watt typical, 40 Watt maximum			
<b>ENVIRONMENTAL SPECS</b>		<b>OPERATING TEMPERATURE</b>	<b>STORAGE TEMPERATURE</b>	<b>HUMIDITY - IP RATING</b>
		-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)		
<b>PHYSICAL SPECS</b>		<b>DIMENSIONS PACKAGED</b>	<b>DIMENSIONS UNPACKAGED</b>	<b>WEIGHT (PACKAGED)</b>
MP-10250-BSX/SRX		18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)	14 x 14 x 3.40 in (371 x 371 x 85 mm)	13.67 lbs (6.2 kg)
		7.27 lbs (3.3 kg)		
<b>SAFETY STANDARDS</b>				
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				
<b>CERTIFICATIONS</b>				
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				
<b>PACKAGE CONTENTS</b>				
<ul style="list-style-type: none"> <li>• One Tsunami® MP-10250-BSX/SRX with integrated BeamX antenna and scan radio</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				