



旨在噪声环境中使带宽和链路可靠性最大化

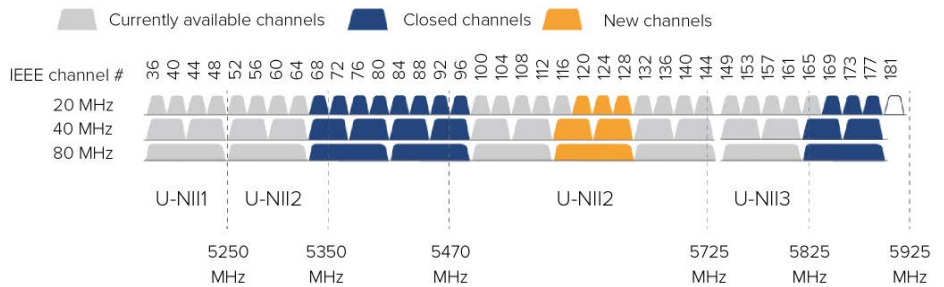
Tsunami® MP-10250-BSX是一款智能基站,可实现波束控制 (BeamX™) 天线和辅助的前瞻扫描无线电 (SmartScan™),以减轻干扰并充分利用Tsunami® 10000产品系列的高处理量能力。该产品在环境高射频干扰下依然非常强悍,在网络中的给定点提供更多Mbps,并开放额外的5GHz频谱。

快速、安全和灵活

- 点对多点基站,可提供高达866 Mbps的数据速率,覆盖距离可达10英里 (16 km)
- AES 128加密,远程认证拨入用户服务验证以及通过SSL/TLS1.2, SSH和SNMPv3进行高度安全的远程管理
- 基于服务流的QoS和深度包检测 (DPI),以确保最重要的数据优先到达
- 内置功能丰富的网络协议,用于IPv4和IPv6桥接,路由和网关功能

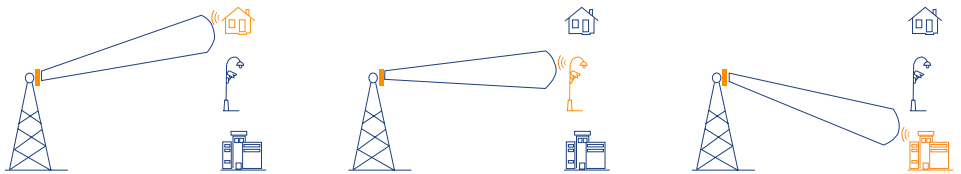
Proxim SmartScan™

- 对完整的RF频谱进行背景分析,并创建信道可用性表,以便在气象雷达检测或严重干扰的情况下立即切换到空闲信道
- 通过消除初始传输延迟, SmartScan使DFS信道更加高效
- 它还可以访问5.600-5.650 GHz子频段,并可以有效使用高达355 MHz的DFS频谱



BeamX™天线

- 智能天线释放一个17°的光束,通过电子方式将自身引导至60°扇区的远程用户单元,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,从而提高处理量



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。

强大且可靠

Tsunami® MP-10250-BSX专为恶劣环境而设计,完全符合IP67防护等级,可在大风,高盐和高高温极端条件下提供多年可靠的服务。

实现技术

Tsunami® MP-10250-BSX支持以下功能，使其适用于包括最后一英里接入或视频监控的应用，这两种应用都需要不间断的高速和优先级宽带无线接入：

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™

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 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

- 连接所有现有的Tsunami® MP/XP 10100, MP-10100L, MP-8200, MP-820和MP-830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-10250-BSX	Tsunami® MP 10250 Base Station Unit, 867 Mbps, MIMO 2x2, 16 dBi BeamX antenna, scan radio	901-00291	MP-10250-BSX-US	
		901-00292	MP-10250-BSX-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 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	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.			
ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:				
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)			
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 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 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	
POWER CONSUMPTION				
	30 Watt typical, 40 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-10250-BSX	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)
SAFETY STANDARDS				
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)			
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			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> • One Tsunami® MP-10250-BSX with integrated BeamX antenna and scan radio • 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-year warranty with ServPak Extended Support available			