



旨在提供超过630 Mbps的数据处理量

Tsunami® MP-10100产品系列是集高处理量、可靠、经济高效、近距离点对多点于一体的系列无线产品。Tsunami® MP-10100系列支持以下功能，这些功能使其成为需要超强的高速网络连接作为最后一英里接入、视频监控或移动应用的理想选择。

世界级性能

- 点对多点系统，可提供高达866 Mbps的数据速率，覆盖距离可达10英里 (16 km)
- IPv4和IPv6双协议栈，在未察觉的情况下演变成未来的网络
- 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
- 铁路认证的高速移动速度高达185 mph (295 km/h)

频率不可知

- 可在4.900至5.925 GHz的免许可频段内运行
- 灵活的RF规划，信道规格为20、40和80 MHz

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
- 内置频谱分析仪可分析干扰频段，并选择最佳可用频道

实现技术

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 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)

运营商级回程

- 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®) 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，直通IEEE 1588v2同步功能，支持9k巨型帧

强大且可靠

Tsunami® MP-10100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。

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

- 连接所有现有的Tsunami® MP-10200, MP-10100, 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-10100-BSU	Tsunami® MP 10100 Base Station, 866 Mbps, MIMO 2x2, Type-N Connectors	901-00226	MP-10100-BSU-US
MP-10150-BS9	Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 90° sector antenna	901-00227	MP-10100-BSU-WD
MP-10150-BS1	Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00230	MP-10150-BS9-US
MP-10100-SUA	Tsunami® MP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors	901-00231	MP-10150-BS9-WD
MP-10150-SUR	Tsunami® MP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00260	MP-10150-BS1-US
MP-10150-SUL	Tsunami® MP 10150 Subscriber Unit Long-range, 866 Mbps, MIMO 2x2, 28 dBi panel antenna	901-00261	MP-10150-BS1-WD
		901-00228	MP-10100-SUA-US
		901-00229	MP-10100-SUA-WD
		901-00232	MP-10150-SUR-US
		901-00233	MP-10150-SUR-WD
		901-00234	MP-10150-SUL-US
		901-00235	MP-10150-SUL-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 (±5ppm channel accuracy)		
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	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm
	MCS9: 21 dBm	MCS9: 22 dBm	MCS8: 25 dBm
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm
	MCS9: -68 dBm	MCS9: -71 dBm	MCS8: -74 dBm
THROUGHPUT	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-10100-BSU/SUA	Two N-type Connectors with built-in Surge Protection		
MP-10150-BS9	Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna		
MP-10150-BS1/SUR	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna		
MP-10150-SUL	Integrated 2x2 MIMO 28dBi Dual Polarized 2 feet Panel Antenna		
MANAGEMENT			
REMOTE	Telnet and SSH, Web GUI and SSL/TLS, 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	
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) except MP-10150-SUL:180 km/h(112.5 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-10100-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-10150-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)
MP-10150-BS1/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)
MP-10150-SUL	27.55 x 6.85 x 27.55 in (700 x 174 x 700 mm)	23.62 x 23.62 x 3.85 in (600 x 600 x 92 mm)	23.15 lbs (10.5 kg)	14.33 lbs (6.5 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, Railway: EN 50155 + EN 50121 + EN 61373			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> One Tsunami® MP-10100-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-10150-BS9/BS1/SUR/SUL 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-year warranty with ServPak Extended Support available.			