

Tsunami[®] MP-10100S系列使用内置AES 256功能, 增强无线安全性

Tsunami[®] MP-10100S是Tsunami[®] MP-10100的最安全版本, 具有极高处理量和高功率, 特别可靠、经济高效, 为近视距点对多点无线提供对策。



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。
- 高速移动速度可达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), 能轻松创建独特而复杂的服务规则和分层服务级别。
- BSU冗余 (500毫秒切换时间) 和动态信道选择, 无论在什么条件下都能确保服务的连续性。
- 频谱分析仪用于分析干扰频段, 并选择最佳可用信道。

运营商级解决方案

- 通过AES 256加密和远程认证拨入用户服务身份验证, 实现免许可频谱中最安全的室外无线通信。
- 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。

实现技术

Tsunami[®] MP-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[®]

-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)

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-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Tsunami[®] MP-10200, MP10100, 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-10100S-BSU-US	Tsunami® MP 10100 Base Station, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	901-00294 MP-10100S-BSU-US		
MP-10150S-BS9-US	Tsunami® MP 10150 Base Station, AES 256, 867 Mbps, MIMO 2x2, 90° sector antenna	901-00296 MP-10150S-BS9-US		
MP-10100S-SUA-US	Tsunami® MP 10100 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, Type-N Connectors	901-00295 MP-10100S-SUA-US		
MP-10150S-SUR-US	Tsunami® MP 10150 Subscriber Unit, AES 256, 867 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00297 MP-10150S-SUR-US		
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	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	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			
SYNCHRONIZATION				
	Pass-through 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 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)

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				
	UL 60950, IEC 60950 (part -1 and -22)			
CERTIFICATIONS				
	USA: FCC 90Y + 15E (UNII 15.247) Railway: EN 50155 + EN 50121 + EN 61000-6-4 + EN 61373 + EN 45545-2			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> • 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 • 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.			