



超强的室外点对多点CPE, 适用于高性能多点网络和移动应用

Tsunami[®] Multipoint 10100 CPE是大规模无线部署的理想解决方案, 对需要中高密度点对多点网络的任何组织来说, 性价比超高。

MP-10100-CPE可以实现高达295 km/h (185 mph) 速度上的无缝漫游, 用于移动应用, 例如在火车、有轨电车和公共汽车上提供互联网接入或视频监控。

此CPE还具有运营高级优先级平台, 支持多种服务类别, 能够优先处理语音, 视频和数据应用程序, 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[®] MP-10100-CPE/CPA专为恶劣环境而设计, 完全符合IP67防护等级, 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

- 允许灵活的服务层带宽分配
- 现场可升级50, 100, 150或200 Mbps的数据处理量 (许可证升级)
- 提供灵活的信道规划, 支持4.900至5.925 GHz
- 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[®]) 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

一体化的CPE和网关

- 用于桥接, 路由和网关功能的内置网络协议
- MAC, 以太网类型, IP地址包过滤提供精细的网络安全性
- 通过SSL/TLS1.2, SSH和SNMPv3实现高度安全的远程管理

安装方便

- 随时可以安装一个完整的“自带杆”安装套件: 其中包括基本的杆式安装和接地套件, 连接器防风雨套件和馈电器
- 高级正交频分复用技术 (OFDM) 提供的非视距功能以及2x2 MIMO可轻松部署在一些具有挑战性的领域
- 部署工具包括频谱分析仪, 天线对准和远程管理配置
- 连接所有现有的Tsunami[®] MP-10200, MP10100, MP-8200, MP-820和MP-830系列产品
- 完美集成在ProximVision[®]高级版, Proxim云端运营商管理系统和控制器中

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)

多语言支持

Web界面提供英语, 法语, 西班牙语和中文

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。

规格

PRODUCT MODELS		PART NUMBERS	
MP-10150-CPE-50	Tsunami® MP 10150 Customer Premise Equipment, 50 Mbps, MIMO 2x2, 15 dBi panel	901-00251	MP-10150-CPE-50-US
MP-10150-CPE-100	Tsunami® MP 10150 Customer Premise Equipment, 100 Mbps, MIMO 2x2, 15 dBi panel	901-00256	MP-10150-CPE-50-WD
MP-10150-CPE-150	Tsunami® MP 10150 Customer Premise Equipment, 150 Mbps, MIMO 2x2, 15 dBi panel	901-00252	MP-10150-CPE-100-US
MP-10150-CPE-200	Tsunami® MP 10150 Customer Premise Equipment, 200 Mbps, MIMO 2x2, 15 dBi panel	901-00257	MP-10150-CPE-100-WD
MP-10100-CPA-50	Tsunami® MP 10100 Customer Premise Equipment, 50 Mbps, MIMO 2x2, N-Type Connectors	901-00253	MP-10150-CPE-150-US
MP-10100-CPA-100	Tsunami® MP 10100 Customer Premise Equipment, 100 Mbps, MIMO 2x2, N-Type Connectors	901-00258	MP-10150-CPE-150-WD
MP-10100-CPA-150	Tsunami® MP 10100 Customer Premise Equipment, 150 Mbps, MIMO 2x2, N-Type Connectors	901-00254	MP-10150-CPE-200-US
MP-10100-CPA-200	Tsunami® MP 10100 Customer Premise Equipment, 200 Mbps, MIMO 2x2, N-Type Connectors	901-00259	MP-10150-CPE-200-WD
		901-00264	MP-10100-CPA-50-US
		901-00268	MP-10100-CPA-50-WD
		901-00265	MP-10100-CPA-100-US
		901-00269	MP-10100-CPA-100-WD
		901-00266	MP-10100-CPA-150-US
		901-00270	MP-10100-CPA-150-WD
		901-00267	MP-10100-CPA-200-US
		901-00271	MP-10100-CPA-200-WD
INTERFACES			
WIRED ETHERNET	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in & 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 (dual RF)	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	License controlled to 50, 100, 150 or 200 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-10150-CPE-xxx	Integrated 15 dBi dual Polarized (H+V) panel antenna (12 dBi before 5.000 GHz and 14 dBi beyond 5.850 GHz)		
MP-10100-CPA-xxx	Two N-type Connectors with built-in Surge Protection		
MANAGEMENT			
REMOTE	Telnet and SSH, Web GUI and SSL/TLS1.2, 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		
SYNCHRONIZATION			
	Pass-through SyncE and Precision Time Protocol (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 Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType		
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 port(Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports		12 VDC on Access port	
POWER CONSUMPTION				
	11.5 Watt typical, 15.5 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	180 km/h (112.5 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-10150-CPE-xxx	11.81x10.83x5.31 in (300x275x135 mm)	4.96x8.62x2.58 in (126x219x65.5 mm)	7.27 lbs (3.3 Kg)	2.10 lbs (0.950 kg)
MP-10100-CPA-xxx	11.81x10.83x5.31 in (300x275x135 mm)	5.02x8.68x2.85 in (127.5x220.5x72.5 mm)	6.39 lbs (2.9 kg)	2.75 lbs (1.250 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-10150-CPE-xxx with integrated dual polarized antenna Or One Tsunami® MP-10100-CPA-xxx with two N-type surge protected connectors • One power injector and country specific power cord • One Connector weatherproofing kit (Includes all recommended weatherproofing material) • One Wall / Pole mounting kit (MP-10150-CPE-xxx) Or One Pole mounting kit (MP-10100-CPA-xxx) • One Grounding kit • One Quick Installation Guide 			
MTBF & WARRANTY				
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available			