







Rugged outdoor Point-to-Multipoint CPE for High Performance Multi-Point Networks and Mobility Applications

The Tsunami® Multipoint 10100 CPE is an ideal solution for large-scale wireless deployments and provides and excellent price/performance for any organization in need of medium to high density point-to-multipoint networks.

The MP-10100-CPE enables seamless roaming up to 295 km/h (185 mph) for use in mobility applications such as provision of Internet access or video surveillance on trains, trams and busses.

This CPE also features a carrier-grade prioritization platform supporting multiple service classes and able to prioritize voice, video and data applications to enable granular management of customer service features.

High Value, Long Service Life

The combination of high reliability, license-free frequency bands, and guaranteed compatibility with past, current and future Proxim base station models, ensures a long service life, and an excellent return on investment.

 Designed for harsh environments, the Tsunami® MP-10100-CPE/CPA is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature range

Flexible, Fast and Secure

- Allows flexible bandwidth allocation for service tiers
- Field upgradable 50, 100, 150 or 200 Mbps of throughput (license upgradeable)
- Provides flexible channel planning with support for 4.900 to 5.925 GHz
- Advanced encryption protects over-the-air transmission via AES-128
- Uses Proxim's Wireless Outdoor Routing Protocol (WORP®) to prevent snooping
- Radio mutual authentication eliminates unauthorized use of the system by rogue subscriber units and man-in-the middle attacks

All-in-One CPE and Gateway

- Built-in network protocols for Bridging, Routing and Gateway functionality
- MAC, Ether type, IP address packet filtering provides granular network security
- Features highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3

Easy to Install

- Comes ready to install with a complete "bring-your-own-pole" installation kit that includes basic pole mount and grounding kits, connector weather proofing kit and a power injector
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas
- Deployment tools include spectrum analyzer, antenna alignment and remote management configuration
- Connects to all existing Tsunami® MP-10200, MP10100, MP-8200, MP-820 and MP-830 product families
- Fully integrates within ProximVision® Advanced, Proxim's Cloud Based Carrier Management System and Controller

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.

Key Technologies

Proxim WORP®

Combines network access control, data scheduling, advanced QoS and encryption to ensure highly efficient and secure data transmission.

Proxim ClearConnect™

A suite of interference mitigation technologies ensuring robust and reliable communications in high-density wireless deployments.

$\textbf{Proxim FastConnect}^{\scriptscriptstyle{\mathsf{TM}}}$

Mobility technology that delivers rapid hand-off between fixed base stations and moving vehicles to ensure uninterrupted broadband at speeds up to 295 km/h (185 mph).

Specifications

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 901-00256 MP-10150-CPE-50-WD			
MP-10150-CPE-100	Tsunami® MP 10150 Customer Premise Equipment, 100 Mbps, MIMO 2x2, 15 dBi panel			901-00252 MP-10150-CPE-100-US 901-00257 MP-10150-CPE-100-WD		
MP-10150-CPE-150	Tsunami® MP 10150 Customer Premise Equipment, 150 Mbps, MIMO 2x2, 15 dBi panel			901-00253 MP-10150-CPE-150-US 901-00258 MP-10150-CPE-150-WD		
MP-10150-CPE-200	Tsunami® MP 10150 Customer Premise Equipment, 200 Mbps, MIMO 2x2, 15 dBi panel			901-00254 MP-10150-CPE-200-US 901-00259 MP-10150-CPE-200-WD		
MP-10100-CPA-50	Tsunami® MP 10100 Customer Premise Equipment, 50 Mbps, MIMO 2x2, N-Type Connectors			901-00264 MP-10100-CPA-50-US 901-00268 MP-10100-CPA-50-WD		
MP-10100-CPA-100	Tsunami® MP 10100 Customer Premise Equipment, 100 Mbps, MIMO 2x2, N-Type Connectors			901-00265 MP-10100-CPA-100-US 901-00269 MP-10100-CPA-100-WD		
MP-10100-CPA-150	Tsunami® MP 10100 Customer Premise Equipment, 150 Mbps, MIMO 2x2, N-Type Connectors			901-00266 MP-10100-CPA-150-US 901-00270 MP-10100-CPA-150-WD		
MP-10100-CPA-200	Tsunami® MP 10100 Customer Premise Equip	901-00267 MP-10100-CPA-200-US 901-00271 MP-10100-CPA-200-WD				
INTERFACES						
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in & Data WORP® (Wireless Outdoor Router Protocol)					
RADIO & TX SPECS						
MIMO MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER CONTROL	2x2:2 OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 4.900 – 5.925 GHz (Subject to Country Regulations) 80 MHz, 40 MHz and 20 MHz (±5ppm channel accuracy) MCS 0 to 9 with Dynamic Data Rate Selection Up to 28 dBm (dual chain) 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	МС	CS0: 29		
	MCS9: 21	MCS9: 22	МС	CS8: 25		
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MC	CS0: -94		
	MCS9: -68	MCS9: -71	MC	CS8: -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 SNMP OTHER	Telnet and SSH, Web GUI and SSL/TLS1.2, T SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2 Syslog, sFlow™ agent, SNTP and local time, S	790, RFC-2571, RFC-3412, RFC-3414, P	rivate MIB			

SYNCHRONIZATION						
	Pass-through IEEE 1588v2 Etherr	net Synchronization				
SECURITY						
ENCRYPTION AUTHENTICATION	AES 128 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 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 maxim	um				
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						
	 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						
	MTBE over 250 000 hours & 2-ve	ear warranty with ServPak Exte	ended Support available			

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