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

The Proxim Multipoint 10200 CPE/CPA is an ideal solution for large-scale wireless deployments and provides excellent price/performance for any organization in need of medium to high density point-to-multipoint networks.

The Multipoint 10200 CPE/CPA 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 Customer Premises Equipment 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 Multipoint 10250-CPE, and 10200-CPA are 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

- Delivers High Bandwidth over 20 and 40Mhz Channels, and is upgradeable to utilize 80Mhz Channels
- Provides flexible channel planning with support for 4.900 to 5.925 GHz
- Advanced encryption protects over-the-air transmission via AES-128, and is upgradeable to AES-256
- Uses Proxim's advanced 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

GPS Ready

- Proxim GPS-POSITION-KIT (949-00128) can be connected via Access port for accurate positioning and real time tracking within ProximVision® Advanced dynamic map.

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

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.

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, MP-10100, MP-8200, MP-820 and MP-830 product families
- Fully integrates within ProximVision® Advanced, Proxim's Cloud Based Carrier Management System and Controller

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.

Proxim FastConnect™

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).

Multi-Language Support

Web Interface available in English, French, Spanish and Chinese

Specifications

PRODUCT MODELS		PART NUMBERS
MP-10250-CPE-US	Tsunami® MP 10250 Customer Premise Equipment, 400 Mbps, MIMO 2x2, 15dBi panel	901-00320
MP-10250-CPE-WD	Tsunami® MP 10250 Customer Premise Equipment, 400 Mbps, MIMO 2x2, 15dBi panel	901-00321
MP-10200-CPA-US	Tsunami® MP 10200 Customer Premise Equipment, 400 Mbps, MIMO 2x2, N-Type Connectors	901-00314
MP-10200-CPA-WD	Tsunami® MP 10200 Customer Premise Equipment, 400 Mbps, MIMO 2x2, N-Type Connectors	901-00315
LICENSE UPGRADES		
MP-102x0-CPx-866-UPG	Tsunami® MP 10200 Customer Premises Equipment, 400 Mbps to 866 Mbps license upgrade	997-00047
MP-102x0-CPx-AES256-UPG	Tsunami® MP 10200 Customer Premise Equipment, AES 128 to AES 256 license upgrade	997-00048
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	20 MHz and 40 MHz, Upgradeable to 80 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	324 Mbps upgradeable to 672 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-10250-CPE	Integrated 15 dBi dual Polarized (H+V) panel antenna (12 dBi before 5.000 GHz and 14 dBi beyond 5.850 GHz)
MP-10200-CPA	Two N-type Connectors with built-in Surge Protection

MANAGEMENT

REMOTE SNMP OTHER Multi-Language Support	Telnet and SSH, Web GUI and SSL/TLS1.2, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer Web Interface available in English, French, Spanish and Chinese

SYNCHRONIZATION

	Pass-trough SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization

SECURITY

ENCRYPTION AUTHENTICATION	AES 128, upgradeable to AES 256 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 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-10250-CPE	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-10200-CPA	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-10250-CPE with integrated dual polarized antenna
  Or One Tsunami® MP-10200-CPA 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-10250-CPE) Or One Pole mounting kit (MP-10200-CPA)
- One Grounding kit
- One Quick Installation Guide

MTBF & WARRANTY

MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available