

Tsunami® MP-10100 CPE/CPA

Compact Point-to-Multipoint Wireless Solution



Enhanced your very high capacity network with the all new Tsunami® MP-10100 CPE/CPA

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range and mobile broadband wireless solutions.

Proxim introduces the Tsunami® MP-10100 CPE/CPA, a compact client device with license controlled throughput based on the very high capacity, high power, extremely reliable and cost-effective, Tsunami 10100 series.

The Tsunami® MP-10100 CPE/CPA supports the following features specifically for last miles access, video surveillance or mobility applications requiring high-speed broadband wireless access



Proxim WORP®, a highly evolved QoS platform tailored to deliver voice, video and data applications



Proxim ClearConnect™, a suite of over 13 different techniques all working together to ensure robust and reliable radio communications in noisy deployments



Proxim FastConnect™, a High Speed Mobility solution for Buses, Trains, Metros and Ferries

World Class Performance

- Very small form factor and outdoor rated IP67 Metal enclosure
- Available with 15 dBi integrated antenna or N-Type connectors
- 50, 100, 150 or 200 Mbps (license upgradable) throughput, with maximum data rates of 866 Mbps
- Triple level login with monitoring, simplified or advanced web interface
- Built-in feature rich network protocols for bridging, routing and gateway functionality
- High Speed Mobility up to 185 mph (295 km/h)

Frequency Agnostic

- Operates in unlicensed bands from 4.900 to 5.925 GHz
- Flexible RF planning with 20, 40 and 80 MHz channel sizes

Near-Line-of-Sight and Advanced Features

- Performs deep packet inspection (DPI) to create unique and sophisticated service rules and tiered service classes with ease
- BSU redundancy (500 milliseconds switch over time) and Dynamic Channel Selection to ensure continuity of services whatever the condition
- Spectrum analyzer to scan frequency bands for interference and ensure operation on the best available channel

Carrier-Grade Solution

- Implements AES encryption and Radius authentication for the most secure outdoor wireless communications in the unlicensed frequency spectrum
- Utilizes Proxim's Wireless Outdoor Routing Protocol (WORP®), which prevents snooping, and features highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3
- Gigabit Ethernet port with pass-through IEEE 1588v2 synchronization and support for 9k Jumbo frame sizes

Product Line Compatibility

- Connects to all existing Tsunami® MP-8200, MP-820 and MP-830 products
- Fully integrates within ProximVision® Advanced, Proxim's Cloud Based Carrier Management System and Controller

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 Equipment, 200 Mbps, MIMO 2x2, N-Type Connectors	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®				
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	MCS0: -89	MCS0: -93	MCS0: -94		
(PER=10%)	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				
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 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 on Access port			
	12 VDC via Access port				
	Power should not be provided simultaneously on both ports.				
POWER CONSUMPTION					
	17 Watt typical, 22 Watt max				
ENVIRONMENTAL SPECS					
	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY, WATER & DUST PROOF, 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)				
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) 		<ul style="list-style-type: none"> 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				