

Tsunami® MP-10100-CPE

Compact Point-to-Multipoint Wireless Solution





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

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, 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 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



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 MP-10150-CPE-50 MP-10150-CPE-100 MP-10150-CPE-150

MP-10150-CPE-200

MP-10100-CPA-50 MP-10100-CPA-100

Tsunami® MP 10150 Customer Premise Equipment, 50 Mbps, MIMO 2x2, 16 dBi panel Tsunami® MP 10150 Customer Premise Equipment, 100 Mbps, MIMO 2x2, 16 dBi panel Tsunami® MP 10150 Customer Premise Equipment, 150 Mbps, MIMO 2x2, 16 dBi panel Tsunami® MP 10150 Customer Premise Equipment, 200 Mbps, MIMO 2x2, 16 dBi panel Tsunami® MP 10100 Customer Premise Equipment, 50 Mbps, MIMO 2x2, N-Type Connectors Tsunami® MP 10100 Customer Premise Equipment, 100 Mbps, MIMO 2x2, N-Type Connectors Tsunami® MP 10100 Customer Premise Equipment, 150 Mbps, MIMO 2x2, N-Type Connectors Tsunami® MP 10100 Customer Premise Equipment, 200 Mbps, MIMO 2x2, N-Type Connectors PART NUMBERS 901-00251 MP-10150-CPE-50-US 901-00252 MP-10150-CPE-100-US 901-00253 MP-10150-CPE-100-US 901-00254 MP-10150-CPE-100-US

901-00264 MP-10100-CPA-50-US 901-00265 MP-10100-CPA-100-US

901-00266 MP-10100-CPA-100-US 901-00267 MP-10100-CPA-100-US

901-00256 MP-10150-CPE-50-WD 901-00257 MP-10150-CPE-100-WD 901-00258 MP-10150-CPE-100-WD 901-00259 MP-10150-CPE-100-WD 901-00268 MP-10100-CPA-50-WD 901-00269 MP-10100-CPA-100-WD 901-00270 MP-10100-CPA-100-WD 901-00271 MP-10100-CPA-100-WD

MP-10100-CPA-150 MP-10100-CPA-200

WIRED ETHERNET One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in & Data WIRELESS PROTOCOL

RADIO & TX SPECS

MODULATION OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 4.900 – 5.925 GHz (Subject to Country Regulations) 80 MHz, 40 MHz and 20 MHz FREQUENCY

CHANNEL SIZE

DATA RATE MCS 0 to 9 with Dynamic Data Rate Selection

Up to 28 dBm (dual chain) TX POWER

TX POWER CONTROL 0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

TX POWER

80 MHz MCS0: 28 MCS0: 28 MCS0: 29 MCS9: 21 MCS9: 22 MCS8: 25 MCS0: -89 MCS0: -93 MCS0: -94 MCS9: -68 MCS8: -74 MCS9: -71

RX SENSITIVITY

THROUGHPUT

(PER=10%)

License controlled to 50, 100, 150 or 200 Mbps

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

OTHER

MP-10150-CPE-xxx Integrated 2x2 MIMO 16dBi Dual Polarized Panel Sector Antenna MP-10100-CPA-xxx Two N-type Connectors with built-in Surge Protection

REMOTE Telnet and SSH, Web GUI and SSI /TI S1.2, TETP, SNMPv3

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

FNCRYPTION AFS 128

AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

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

802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging VI AN

POWER

36 to 57 VDC via Ethernet port (Power over Ethernet) 12 VDC via Access port 12 VDC on Access port Power should not be provided simultaneously on both ports

POWER CONSUMPTION

17 Watt typical, 22 Watt max

ENVIRONMENTAL SPECS

-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

MP-10150-CPF-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)

UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)

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

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