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

The Multipoint 10100 CPE/CPA 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 Multipoint 10100 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 buses.

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 Multipoint 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, 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

About Proxim Wireless

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications.

Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for 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.

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

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-10150-CPE-50</td>
<td>Tsunami® MP 10150 Customer Premise Equipment, 50 Mbps, MIMO 2x2, 15 dBi panel</td>
</tr>
<tr>
<td>MP-10150-CPE-100</td>
<td>Tsunami® MP 10150 Customer Premise Equipment, 100 Mbps, MIMO 2x2, 15 dBi panel</td>
</tr>
<tr>
<td>MP-10100-CPA-50</td>
<td>Tsunami® MP 10100 Customer Premise Equipment, 50 Mbps, MIMO 2x2, N-Type Connectors</td>
</tr>
<tr>
<td>MP-10100-CPA-100</td>
<td>Tsunami® MP 10100 Customer Premise Equipment, 100 Mbps, MIMO 2x2, N-Type Connectors</td>
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</tbody>
</table>

| INTERFACES              | ONE auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in & Data WORP® (Wireless Outdoor Router Protocol) |

<table>
<thead>
<tr>
<th>RADIO &amp; TX SPECS</th>
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<tbody>
<tr>
<td>MIMO</td>
<td>2x2.2</td>
</tr>
<tr>
<td>MODULATION</td>
<td>OFDM with BPSK, QPSK, QAM16, QAM64, QAM256</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>4.900 – 5.925 GHz (Subject to Country Regulations)</td>
</tr>
<tr>
<td>CHANNEL SIZE</td>
<td>80 MHz, 40 MHz and 20 MHz (±5ppm channel accuracy)</td>
</tr>
<tr>
<td>DATA RATE</td>
<td>MCS 0 to 9 with Dynamic Data Rate Selection</td>
</tr>
<tr>
<td>TX POWER</td>
<td>Up to 28 dBm (dual chain)</td>
</tr>
<tr>
<td>TX POWER CONTROL</td>
<td>0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit</td>
</tr>
</tbody>
</table>

| 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                                                 |
**MANAGEMENT**

**REMOTE SNMP OTHER**
Telnet and SSH, Web GUI and SSL/TLS 1.2, 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
Multi-Language Support
Web Interface available in English, French, Spanish and Chinese

**SYNCHRONIZATION**
Pass-through SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet 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 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType
Capabilities Best Effort, Real Time Polling Services
Scheduling

**NETWORK**

**MODES**
Bridging, Routing (RIP v2 and IP tunneling)
IPv4 and IPv6 simultaneously

**IP STACK**
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

**GATEWAY FEATURES**

**VLAN**

**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**
-40º to 60ºC
(-40º to 140º Fahrenheit)

**STORAGE TEMPERATURE**
-50º to 70ºC
(-58º to 158º Fahrenheit)

**HUMIDITY - IP RATING**
100% relative humidity - IP67

**WIND LOADING**
180 km/h (112.5 mph)

**PHYSICAL SPECS**

**DIMENSIONS PACKAGED**
MP-10150-CPE-xxx
11.81 x 10.83 x 5.31 in (300 x 275 x 135 mm)
4.96 x 8.62 x 2.58 in (126 x 219 x 65.5 mm)
7.27 lbs (3.3 Kg)
2.10 lbs (0.950 kg)

MP-10100-CPA-xxx
11.81 x 10.83 x 5.31 in (300 x 275 x 135 mm)
5.02 x 8.68 x 2.85 in (127.5 x 220.5 x 72.5 mm)
6.39 lbs (2.9 kg)
2.75 lbs (1.250 kg)

**SAFETY STANDARDS**

*UL 62368-1 2nd edition & 60950-22 2nd edition*
*CAN/CSA C22.2 No 62368-11 & No 60950-22:17*

**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 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

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