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

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-10250-CPE-US</td>
<td>901-00320</td>
</tr>
<tr>
<td>MP-10250-CPE-WD</td>
<td>901-00321</td>
</tr>
<tr>
<td>MP-10200-CPA-US</td>
<td>901-00314</td>
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<tr>
<td>MP-10200-CPA-WD</td>
<td>901-00315</td>
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<table>
<thead>
<tr>
<th>LICENSE UPGRADES</th>
<th>PART NUMBERS</th>
</tr>
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<tbody>
<tr>
<td>MP-102x0-CPx-866-UPG</td>
<td>997-00047</td>
</tr>
<tr>
<td>MP-102x0-CPx-AES256-UPG</td>
<td>997-00048</td>
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<tr>
<th>INTERFACES</th>
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<tr>
<td>WIRED ETHERNET</td>
<td>One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in &amp; Data</td>
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<tr>
<td>WIRELESS PROTOCOL</td>
<td>WORP® (Wireless Outdoor Router Protocol)</td>
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<thead>
<tr>
<th>RADIO &amp; TX SPECS</th>
<th></th>
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</thead>
<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>20 MHz and 40 MHz, Upgradeable to 80 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>
### NETWORK MODES

- **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 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-10250-CPE: 11.81x10.83x5.31 in (300x275x135 mm)
  - MP-10200-CPA: 11.81x10.83x5.31 in (300x275x135 mm)
- **WEIGHT (PACKAGED)**
  - MP-10250-CPE: 9.6 lbs (4.3 Kg)
  - MP-10200-CPA: 9.6 lbs (4.3 Kg)
- **WEIGHT (UNPACKAGED)**
  - MP-10250-CPE: 7.27 lbs (3.3 Kg)
  - MP-10200-CPA: 6.39 lbs (2.9 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