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.
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

<table>
<thead>
<tr>
<th>PRODUCT MODELS</th>
<th>PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-10150-CPE-50</td>
<td>901-00251 MP-10150-CPE-50-US</td>
</tr>
<tr>
<td>MP-10150-CPE-100</td>
<td>901-00256 MP-10150-CPE-50-WD</td>
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<tr>
<td>MP-10150-CPE-150</td>
<td>901-00252 MP-10150-CPE-100-US</td>
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<tr>
<td>MP-10150-CPE-200</td>
<td>901-00257 MP-10150-CPE-100-WD</td>
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<td>MP-10100-CPA-50</td>
<td>901-00253 MP-10150-CPE-150-US</td>
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</tbody>
</table>

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

**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 (±5ppm channel accuracy)

**DATA RATE**
MCS 0 to 9 with Dynamic Data Rate Selection

**TX POWER**
Up to 28 dBm (dual chain)

**TX POWER (dual RF)**
0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

<table>
<thead>
<tr>
<th>TX POWER</th>
<th>80 MHz</th>
<th>40 MHz</th>
<th>20 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX POWER</td>
<td>MCS0: 28</td>
<td>MCS0: 28</td>
<td>MCS0: 29</td>
</tr>
<tr>
<td></td>
<td>MCS9: 21</td>
<td>MCS9: 22</td>
<td>MCS8: 25</td>
</tr>
<tr>
<td>RX SENSITIVITY (Per=10%)</td>
<td>MCS0: -89</td>
<td>MCS0: -93</td>
<td>MCS0: -94</td>
</tr>
<tr>
<td></td>
<td>MCS9: -68</td>
<td>MCS9: -71</td>
<td>MCS8: -74</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

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

SYNCRONIZATION

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)

GoS
Asymmetric Bandwidth Control
Packet Classification Capabilities Scheduling
802.1p priority, IP/OS, 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
36 to 57 VDC via Ethernet port(Power over Ethernet)
12 VDC via Access port

OUTPUT
12 VDC on Access port
Power should not be provided simultaneously on both ports

POWER CONSUMPTION

11.5 Watt typical, 15.5 Watt maximum

ENVIRONMENTAL SPECS

OPERATING TEMPERATURE
-40º to 60ºC
(-40º to 140º Fahrenheit)
-50º to 70ºC
(-58º to 158º Fahrenheit)
100% relative humidity - IP67
180 km/h (112.5 mph)

STORAGE TEMPERATURE

HUMIDITY - IP RATING

WIND LOADING

PHYSICAL SPECS

DIMENSIONS PACKAGED

DIMENSIONS UNPACKAGED

WEIGHT (PACKAGED)

WEIGHT (UNPACKAGED)

MP-10150-CPE-xxx

11.81x10.83x5.31 in
(300x275x135 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

11.81x10.83x5.31 in
(300x275x135 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 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-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

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