

Multipoint 10200 CPE/CPA



Product Snapshot

The Proxim Multipoint 10200 CPE/CPA is a compact multipoint client 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.

- Wide Band 5 GHz Radio
- 2x2 MIMO radio delivering up to 672Mbps throughput.
- Integrated 15 dBi dual polarized (H+V), panel antenna (CPE) or two Connectors (CPA)
- Advanced QoS for quad-play applications
- AES 128 bit encryption with 256 bit upgrade option
- 20, 40, and 80 MHz channels

Powered by WORP[®]

Proxim WORP enables the most efficient wireless broadband access possible in a packet-based network. Advanced QoS controls, committed interface rates, latency controls, IGMP snooping, and native multicast support allow granular service level management and the best video performance available in this product class.

Advanced Interference Management

Proxim ClearConnect™ combines multiple dynamic technologies and delivers the best interference management solution available.

Mobility

Featuring advanced Mobility technology the 10200 Series delivers rapid hand-off between fixed base stations and moving vehicles to ensure uninterrupted broadband at speeds up to 295 km/h (185 mph). Certified for rail use with EN 50155, EN 50121, and EN 61373

Rugged Reliability

IP67 rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

Specifications

PRODUCT MODELS

| | | |
|-----------------|---|---------------|
| MP-10250-CPE-WD | Tsunami® MP 10250 Customer Premise Equipment, 400 Mbps, MIMO 2x2, 15dBi panel | PN: 901-00321 |
| MP-10200-CPA-WD | Tsunami® MP 10200 Customer Premise Equipment, 400 Mbps, MIMO 2x2, N-Type Connectors | PN: 901-00315 |

LICENSE UPGRADES

| | | |
|-------------------------|---|---------------|
| MP-102x0-CPx-866-UPG | Tsunami® MP 10200 Customer Premises Equipment, 400 Mbps to 866 Mbps license upgrade | PN: 997-00047 |
| MP-102x0-CPx-AES256-UPG | Tsunami® MP 10200 Customer Premise Equipment, AES 128 to AES 256 license upgrade | PN: 997-00048 |

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 | 2x2:2 |
| MODULATION | OFDM with BPSK, QPSK, QAM16, QAM64, QAM256 |
| FREQUENCY | 4.900 – 5.925 GHz (Subject to Country Regulations) |
| CHANNEL SIZE | 20 MHz and 40 MHz, Upgradeable to 80 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 CONTROL | 0 - 27 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit |

| | 80 MHz | 40 MHz | 20 MHz |
|--------------------------|---|---------------|---------------|
| TX POWER (dual RF) | MCS0: 28 dBm | MCS0: 28 dBm | MCS0: 29 dBm |
| | MCS9: 21 dBm | MCS9: 22 dBm | MCS9: 25 dBm |
| RX SENSITIVITY (Per=10%) | MCS0: -89 dBm | MCS0: -93 dBm | MCS0: -94 dBm |
| | MCS9: -68 dBm | MCS9: -71 dBm | MCS9: -74 dBm |
| THROUGHPUT | 324 Mbps upgradeable to 672 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 | | |

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 |
| 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 | AES 128, upgradeable to AES 256 |
| AUTHENTICATION | Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning) |

ANTENNA

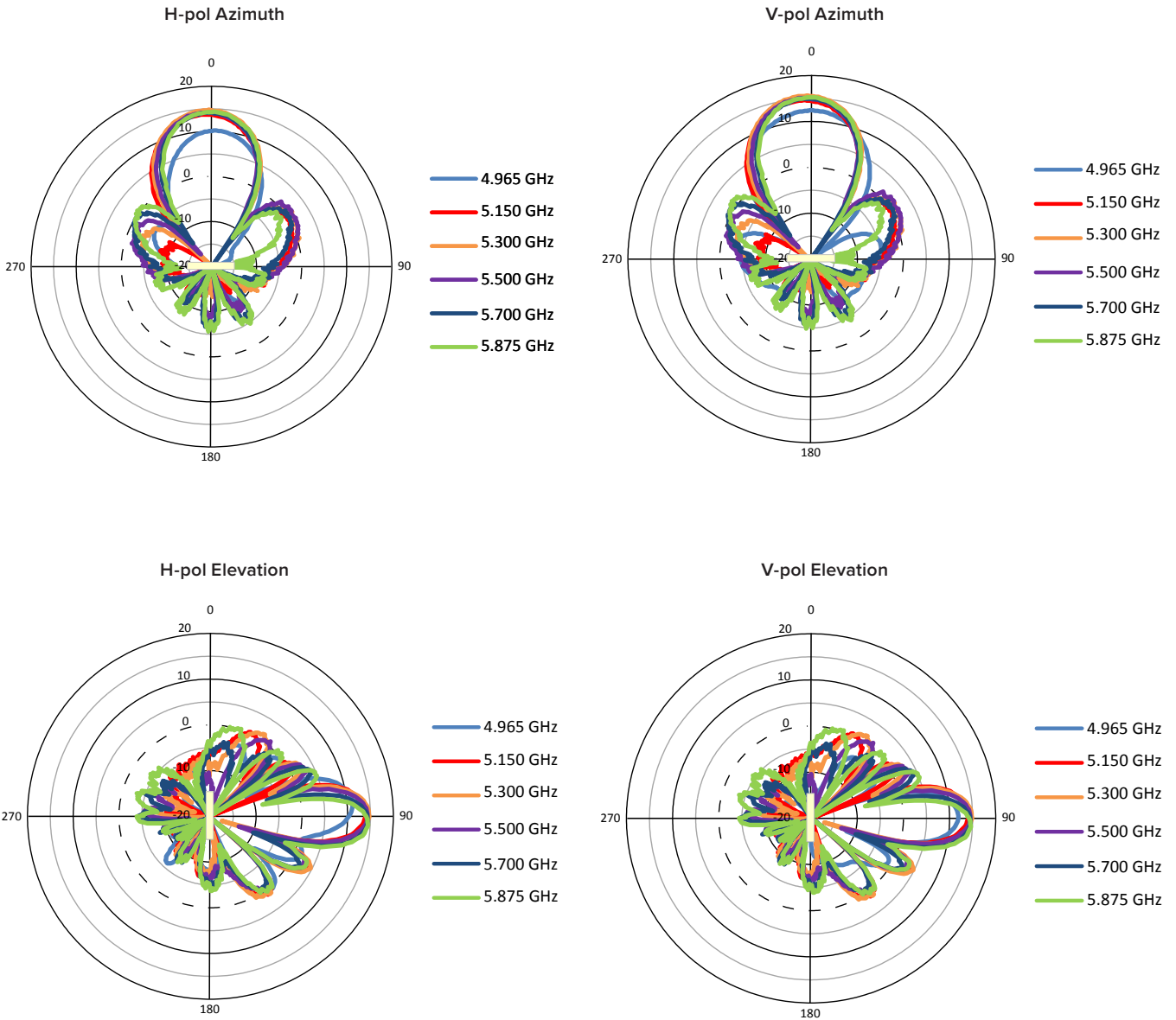
MP-10200-CPA

Two N-type Connectors

MP-10250-CPE

Integrated 15 dBi dual Polarized (H+V) panel antenna (12 dBi before 5.000 GHz and 14 dBi beyond 5.850 GHz)

ANTENNA PATTERNS (Sector Mode)



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

11.5 Watt typical, 15.5 Watt maximum

| ENVIRONMENTAL SPECS | OPERATING TEMPERATURE | STORAGE TEMPERATURE | HUMIDITY - IP RATING | 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-10250-CPE | 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-10200-CPA | 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

IEC 62368-1:2016 & 60950-22:2016
UL 62368-1 2nd edition & 60950-22 2nd edition
CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17
EN 62368-1:2014 + A11:2017 & 60950-22:2017

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 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

>250 000 hours, 2-year warranty, ServPak Extended Support available.

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.

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