Multipoint 10200 CPE/CPA

Product Snaphot

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

- 2×2 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-US | Tsunami® MP 10250 Customer Premise Equipment, 400 Mbps, MIMO 2x2, 15dBi panel | PN: 901-00320 |
| MP-10200-CPA-US | Tsunami® MP 10200 Customer Premise Equipment, 400 Mbps, MIMO 2x2, N-Type Connectors | PN: 901-00314 |

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-trough SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization |

SECURITY

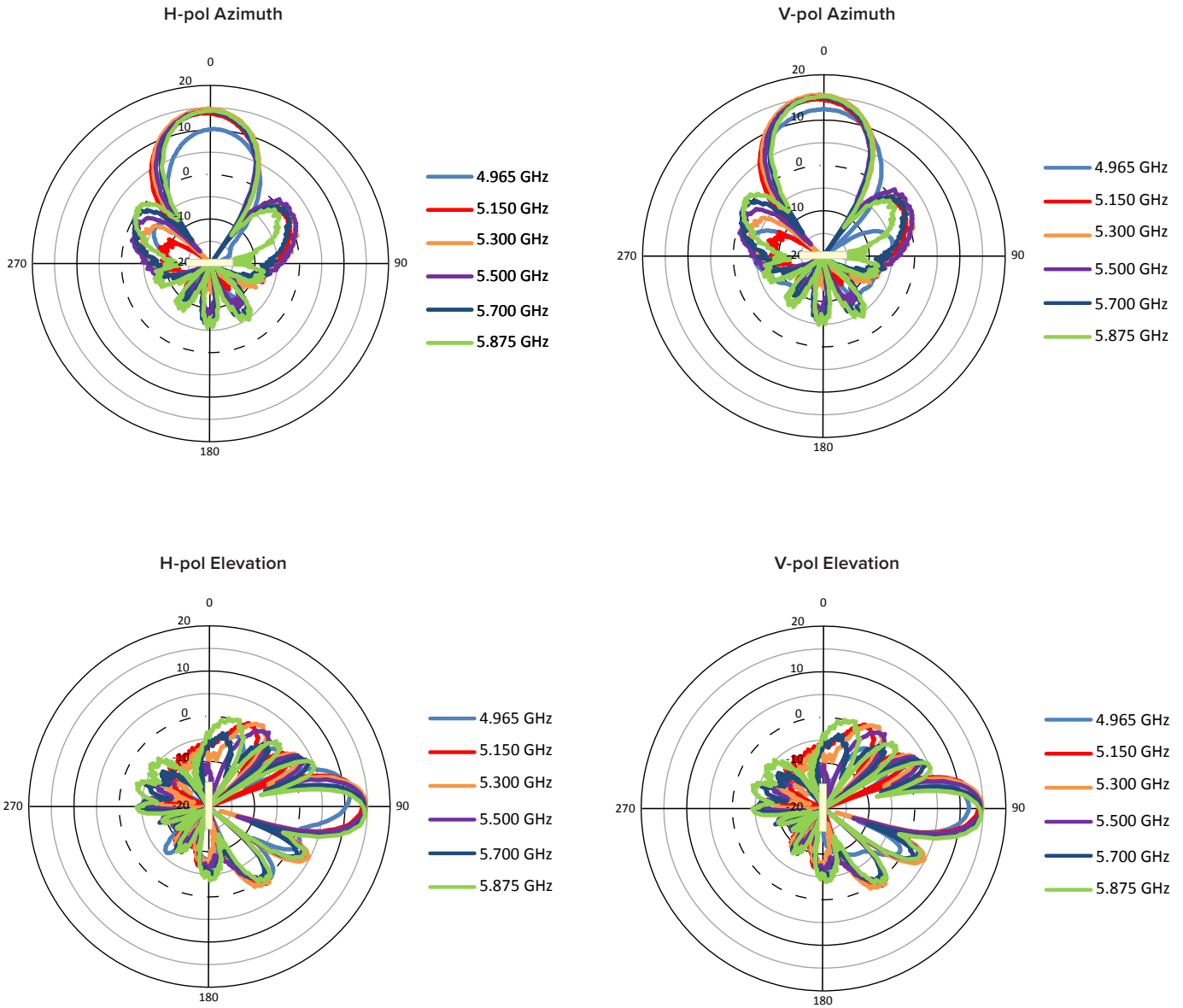| ENCRYPTION | AES 128, upgradeable to AES 256 |
| AUTHENTICATION | Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning) |

| 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)

H-pol Azimuth

V-pol Azimuth

H-pol Elevation

V-pol Elevation

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 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	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.