



## Edge Multipoint 1025 series

Proxim's Edge Multipoint 1025 Series products are high-performance point to multipoint radios designed to deliver years of reliable service and priced to fit cost-sensitive projects.

Utilizing Proxim's highly efficient Wireless Outdoor Router Protocol (WORP), the Edge Multipoint provides a feature set that enables effective use of bandwidth and offers granular service level management through an advanced Quality of Service engine.

This product line is ideal for Wireless Internet Service Providers (WISPs) or applications such as Intelligent Traffic Management, Video Surveillance, and much more.

- High Throughput up to 400 Mbps with channel sizes from 20 to 40 MHz (license upgradable to 80 MHz).
- MIMO 4x4 for higher throughput with narrow channel or for improved robustness
- High power radio delivering up to 27 dBm (4 RF) at 5 GHz.
- High reliability and advanced QoS for quad-play applications.
- Dual IPv4 and IPv6 stacks.

## Highly Secure

Edge Multipoint 1025 provides enterprise-class security to ensure full protection of sensitive information.

- AES 128 encryption and Radius based authentication.
- Secure management (SSL/TLS1.2, SSH, and SNMPv3) preventing unwanted configuration changes.
- IP67 rated enclosure with surged protected Ethernet port.

## Easy to Deploy

Edge Multipoint 1025 simplifies network deployment

- Built-in 15 dBi 35-degree dual-polarity antenna, plus RP-SMA connectors for external antennas providing extended range.
- Includes a Full axis mounting kit
- 802.3af/at Power over Ethernet compliant.
- Bluetooth Low Energy interface for easy configuration via Proxim's BlueConnect smartphone application for Android and iOS.

## Ready for Mobile Deployment

Edge Multipoint 1025 includes Proxim FastConnect roaming technology and an integrated GPS that makes it an ideal mobile subscriber unit.

- Support for delay-sensitive multimedia applications even when mobile at speeds up to 295 km/h (185 mph).
- Built-in GPS module to follow device movement on ProximVision<sup>®</sup> Advanced mapping feature.

## Flexible Centralized Management

ProximVision<sup>®</sup> Advanced supports the Edge Multipoint 1025 devices giving network architects network-wide views and advanced device management.

- Rapid Network Deployment: automates configuration processes for faster, more efficient deployment of Proxim Wireless networks.
- Advanced Statistic and Analytic data for network optimization.

### 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).

## Product Line Compatibility

- Connects to all existing Multipoints MP-10200, MP-10100, MP-820 and MP-830 products.
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller.

## Specifications

PRODUCT MODELS		PART NUMBERS	
MP-1025-BS3	Edge Multipoint 1025, Base Station, integrated antenna and RP-SMA	901-00342	MP-1025-BS3-WD
MP-1025-CPE	Edge Multipoint 1025, Customer Premises Equipment, 400 Mbps, integrated antenna and RP-SMA	901-00345	MP-1025-CPE-WD
INTERFACES			
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol)		
RADIO & TX SPECS			
MIMO	2x2:2, 4x4:2 and 4x4:4		
MODULATION	OFDM BPSK-QAM256		
FREQUENCY	5.150 – 5.925 GHz (Subject to Country Regulations)		
CHANNEL SIZE	20 and 40 MHz (license upgrade to 80 MHz)		
TX POWER	Up to 24 dBm (dual chain) or 27 dBm (quad chain)		
TX POWER CONTROL	0 - 21 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit		
			Requires License Upgrade
	20 MHz	40 MHz	80 MHz
TX POWER	MCS0:	MCS0:	MCS0:
2 RF	24	23	21
4 RF	27	26	24
	MCS8:	MCS9:	MCS9:
2 RF	19	18	17
4 RF	22	21	20
RX SENSITIVITY (Per=10 <sup>-6</sup> )	MCS0:	MCS0:	MCS0:
	-89	-86	-84
	MCS8:	MCS9:	MCS9:
	-67	-62	-59
Throughput-MIMO 2x2 Mode	122 Mbps	294 Mbps	400 Mbps
Throughput-MIMO 4x4 Mode (Requires External Antenna)	240 Mbps	400 Mbps	400 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		

<b>ANTENNA</b>				
	Integrated 2x2 MIMO 15 dBi Dual Polarized 35 degree Panel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors)			
<b>MANAGEMENT</b>				
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			
<b>SECURITY</b>				
ENCRYPTION	AES 128			
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)			
<b>QoS</b>				
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			
<b>NETWORK</b>				
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			
<b>POWER</b>				
	802.3af/at compliant (MIMO 4x4 mode requires 802.3at)			
<b>POWER CONSUMPTION</b>				
	10 W typical, 12 W max in MIMO 2x2 mode 22 W typical, 25 W max in MIMO 4x4 mode			
<b>ENVIRONMENTAL SPECS</b>	<b>OPERATING TEMPERATURE</b>	<b>STORAGE TEMPERATURE</b>	<b>HUMIDITY - IP RATING</b>	<b>WIND LOADING</b>
	-30° to 55° Celsius (-22° to 131° Fahrenheit)	-50° to 70° Celsius (-58° to 158° Fahrenheit)	100% relative humidity-IP67	180 km/h (112.5 mph)
<b>PHYSICAL SPECS</b>	<b>DIMENSIONS PACKAGED</b>	<b>DIMENSIONS UNPACKAGED</b>	<b>WEIGHT (PACKAGED)</b>	<b>WEIGHT (UNPACKAGED)</b>
MP-1025-BS3/CPE	310 x 226 x 98 mm (12.2 x 8.9 x 3.85 in)	170 x 217 x 56 mm (6.7 x 8.55 x 2.2 in)	2.85 kg (6.28 lbs)	1.24 kg (2.73 lbs)
<b>SAFETY STANDARDS</b>				
	IEC 62368-1:2016 & 60950-22:2016 CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17 EN 62368-1:2014 + A11:2017 & 60950-22:2017			
<b>CERTIFICATIONS</b>				
CANADA	RSS-247 issue 2, RSS-102 issue 5, ICES-003 issue 7			
EUROPE	RED EN 301 489-1 + EN 301 489-17 + EN 301 489-19 + EN 300 328 + EN 301 893 + EN 302 502 + EN 303 413			
<b>PACKAGE CONTENTS</b>				
	<ul style="list-style-type: none"> <li>• One Edge MP-1025-BS3/CPE with integrated antenna plus four RP-SMA connectors</li> <li>• Five SMA weather proofing caps</li> <li>• One M25 weather proofing cable gland</li> <li>• One power injector and country specific power cord</li> <li>• One full axis mounting kit</li> <li>• One Grounding kit</li> <li>• One Quick Installation Guide</li> </ul>			
<b>MTBF &amp; WARRANTY</b>				
	>250 000 hours, 2-year warranty, ServPak Extended Support available.			