



## Edge Multipoint 1015

Proxim's Edge Multipoint 1015 product is high-performance point to multipoint radios designed to deliver years of reliable service and priced to fit cost-sensitive projects.

The Edge Multipoint 1015 features one 5 GHz radio delivering up to 100 Mbps throughput (license upgradable to 200 Mbps).

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.

- Throughput of 100 Mbps with channel sizes from 20 to 80 MHz (license upgradable to 200 Mbps)<sup>1</sup>.
- 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 1015 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 1015 simplifies network deployment.

- Built-in 15 dBi 30-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 1015 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 185 mph (295 km/h).
- Built-in GPS module to follow device movement on ProximVision® Advanced mapping feature.

## Flexible Centralized Management

ProximVision® Advanced supports the Edge Multipoint 1015 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 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.

<sup>1</sup>

A license upgrade to activate MU-MIMO 4x4:4 for higher throughput over the same occupied frequency band will be available in a future software release.

## 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 185 mph (295 km/h).

## 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-1015-BS3	Edge Multipoint 1015, Base Station, 100 Mbps, integrated antenna and RP-SMA	901-00359 MP-1015-BS3-US
MP-1015-CPE	Edge Multipoint 1015, Customer Premise Equipment, 100 Mbps, integrated antenna and RP-SMA	901-00360 MP-1015-CPE-US
LICENSES		
MP-1015-BSU-200-UPG	Edge Multipoint 1015, Base Station, 100 Mbps to 200 Mbps license upgrade	997-00054
MP-1015-CPE-200-UPG	Edge Multipoint 1015, Customer Premise Equipment, 100 Mbps to 200 Mbps license upgrade	997-00055
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 and 4x4:4 <sup>1</sup>	
MODULATION	OFDM BPSK-QAM256	
FREQUENCY	5.150 – 5.925 GHz (Subject to Country Regulations)	
CHANNEL SIZE	20, 40, 80 MHz	
THROUGHPUT	Up to 100 Mbps (license upgrade to 200 Mbps)	
TX POWER	Up to 24 dBm (dual chain) or 27 dBm (quad chain)	
TX POWER CONTROL	0 - 17 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit	

<sup>1</sup> A license upgrade to activate MU-MIMO 4x4:4 for higher throughput over the same occupied frequency band will be available in a future software release.

	20 MHz	40 MHz	80 MHz	
TX POWER	MCS0:	MCS0:	MCS0:	
2 RF	24	24	23	
4 RF	27	27	26	
	MCS8:	MCS9:	MCS9:	
2 RF	20	20	19	
4 RF	23	23	22	
RX SENSITIVITY (Per=10 <sup>-6</sup> )	MCS0:	MCS0:	MCS0:	
	-94	-91	-88	
	MCS8:	MCS9:	MCS9:	
	-71	-66	-62	
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			
ANTENNA				
	Integrated 2x2 MIMO 15 dBi Dual Polarized 30 degree Panel Antenna plus Four RP-SMA Connectors (Software switch between integrated antenna and connectors)			
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			
SECURITY				
ENCRYPTION	AES 128			
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)			
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				
	802.3af/at compliant (MIMO 4x4 mode requires 802.3at)			
POWER CONSUMPTION				
	10 W in MIMO 2x2 mode 16 W in MIMO 4x4 mode			
ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING
	-22° to 131° Fahrenheit (-30° to 55° Celsius)	-58° to 158° Fahrenheit (-50° to 70° Celsius)	100% relative humidity— IP67	112.5 mph (180 km/h)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-1015-BS3/CPE	12.2 x 8.9 x 3.85 in (310 x 226 x 98 mm)	6.7 x 8.55 x 2.2 in (170 x 217 x 56 mm)	5.84 lbs (2.65 kg)	2.73 lbs (1.24 kg)

SAFETY STANDARDS	
	UL/IEC/EN 62386-1 and 60950-22
PACKAGE CONTENTS	
	<ul style="list-style-type: none"> <li>• One Edge MP-1015-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>
MTBF & WARRANTY	
	>250 000 hours, 2-year warranty, ServPak Extended Support available.