



Designed to deliver over 630 Mbps of data throughput

The Multipoint 10100 product family, is a series of very high throughput, reliable and cost-effective, near-line-of-sight point-to-multipoint wireless products. The Multipoint 10100 series supports the following features and is ideal for last mile access, video surveillance or mobility applications that need rugged and reliable high-speed network connectivity.

World Class Performance

- Point-to-Multipoint system that delivers up to 866 Mbps data rate and covers distances up to 10 miles (16 km)
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow's networks
- Triple level login with monitoring, simplified or advanced web interface
- Built-in feature rich network protocols for bridging, routing and gateway functionality
- Railway certified High Speed Mobility up to 185 mph (295 km/h)

Frequency Agnostic

- Operates in unlicensed bands from 4.900 to 5.925 GHz
- Flexible RF planning with 20, 40 and 80 MHz channel size

Near-Line-of-Sight and Advanced Features

- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Performs deep packet inspection (DPI) to create unique and sophisticated service rules and tiered service classes with ease
- BSU redundancy (500 milliseconds switch over time) and Dynamic Channel Selection to ensure continuity of services whatever the condition
- Built in spectrum analyzer to analyze frequency bands for interference, and select the best available channel

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)

Carrier-Grade Backhaul

- Implements AES encryption and Radius authentication for the most secure outdoor wireless communications in the unlicensed frequency spectrum
- Utilizes Proxim's Wireless Outdoor Routing Protocol (WORP[®]), which prevents snooping, and features highly-secure remote management via SSL/TLS1.2, SSH and SNMPv3
- Features Ethernet ports with pass-through IEEE 1588v2 synchronization and support for 9k Jumbo frame

Rugged and Reliable

Designed for harsh environments, the Multipoint 10100 is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature extremes.

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.

Product Line Compatibility

- Connects to all existing MP-10200, MP-10100, MP-8200, MP-820 and MP-830 products
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

Multi-Language Support

Web Interface available in English, French, Spanish and Chinese

Specifications

PRODUCT MODELS		PART NUMBERS		
MP-10100-BSU	Tsunami® MP 10100 Base Station, 866 Mbps, MIMO 2x2, Type-N Connectors	901-00226	MP-10100-BSU-US	
MP-10150-BS9	Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 90° sector antenna	901-00227	MP-10100-BSU-WD	
MP-10150-BS1	Tsunami® MP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00230	MP-10150-BS9-US	
MP-10100-SUA	Tsunami® MP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors	901-00231	MP-10150-BS9-WD	
MP-10150-SUR	Tsunami® MP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna	901-00260	MP-10150-BS1-US	
MP-10150-SUL	Tsunami® MP 10150 Subscriber Unit Long-range, 866 Mbps, MIMO 2x2, 28 dBi panel antenna	901-00261	MP-10150-BS1-WD	
		901-00228	MP-10100-SUA-US	
		901-00229	MP-10100-SUA-WD	
		901-00232	MP-10150-SUR-US	
		901-00233	MP-10150-SUR-WD	
		901-00234	MP-10150-SUL-US	
		901-00235	MP-10150-SUL-WD	
INTERFACES				
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & 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	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 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	MCS8: 25 dBm	
RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm	
	MCS9: -68 dBm	MCS9: -71 dBm	MCS8: -74 dBm	
THROUGHPUT (RFC 2544)	Up to 672 Mbps	Up to 324 Mbps	Up to 137 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			
ANTENNA				
MP-10100-BSU/SUA	Two N-type Connectors with built-in Surge Protection			
MP-10150-BS9	Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna			
MP-10150-BS1/SUR	Integrated 2x2 MIMO 22dBi Dual Polarized 1 foot Panel Antenna			
MP-10150-SUL	Integrated 2x2 MIMO 28dBi Dual Polarized 2 feet Panel Antenna			
MANAGEMENT				
REMOTE	Telnet and SSH, Web GUI and SSL/TLS, 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			
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	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			
Capabilities				
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 port1 (Power over Ethernet)	48 to 57 VDC – 25 Watt on Ethernet port2	
		12 VDC via Access port	(PoE – software controlled)	
		Power should not be provided simultaneously on both ports	12 VDC on Access port	
POWER CONSUMPTION				
	14 Watt typical, 17.5 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	200 km/h (125 mph) except MP-10150-SUL:180 km/h(112.5 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-10100-BSU/SUA	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)	9.92 lbs (4.5 kg)	4.20 lbs (1.9 kg)
MP-10150-BS9	18.46 x 7.05 x 21.57 in (469 x 179 x 548 mm)	14.57 x 14.57 x 4.21 in (370 x 370 x 107 mm)	13.67 lbs (6.2 kg)	7.27 lbs (3.3 kg)
MP-10150-BS1/SUR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	10.91 lbs (4.95 kg)	5.30 lbs (2.4 kg)
MP-10150-SUL	27.55 x 6.85 x 27.55 in (700 x 174 x 700 mm)	23.62 x 23.62 x 3.85 in (600 x 600 x 92 mm)	23.15 lbs (10.5 kg)	14.33 lbs (6.5 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				
	<ul style="list-style-type: none"> One Tsunami® MP-10100-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-10150-BS9/BS1/SUR/SUL with integrated dual polarized antenna One power injector and country specific power cord One Connector weatherproofing kit (Includes all recommended weatherproofing material) One Wall / Pole mounting kit One Antenna alignment (RJ11) dongle One Grounding kit One Quick Installation Guide 			
MTBF & WARRANTY				
	MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available.			