

Wireless Point-to-Multipoint Systems Delivering 300Mbps Bandwidth





Tsunami® MP-8100 Series

# End-to-End Broadband Wireless Product Portfolio

- Tsunami® MP.11 Our best selling Point-to- Multipoint product line
- MeshMAX An all-in-one solution containing Point-to-Multipoint, Wi-Fi mesh, and Wi-Fi access point radios
- ORiNOCO AP The industry's highest performance 802.11a/b/g/n access points

Proxim Wireless is a global pioneer of end-to-end broadband wireless systems that deliver the quadruple play of video, voice, data and mobility. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, Wi-Fi Mesh, WiMAX and point-to-point wireless backhaul products are available through our extensive global channel networks.

# Presenting a Wireless Solution that Exceeds 4G Speed Requirements with 300 Mbps Bandwidth!

With over 20 years of wireless innovation, Proxim has been providing Point-to-Multipoint (PtMP) solutions to carriers of all sizes for many years. Leveraging the advantages of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP), the Tsunami® MP-8100 exceeds the ITU requirements for 4G throughput speeds while providing Non-Line-Of-Sight functionality with the widest range of frequencies available. With incredible channel capacity, excellent spectrum flexibility and a prioritization platform for delivering voice, video and data applications, the MP-8100 satisfies service providers and government organizations with requirements for fast and worry-free wireless connectivity.

With data rates of 300 Mbps, the Tsunami® MP-8100 is an ideal solution for everything from last mile broadband wireless access (BWA) to wireless video surveillance. As the industry's first PtMP product to provide dual Gigabit Ethernet ports with PoE out, the Tsunami® MP-8100 becomes the first solution capable of powering IP video cameras or additional radios for even greater ease of deployment.

# **Supreme Performance**

- A fixed PtMP solution that can deliver 300 Mbps data rates
- The only PtMP product in the market to include dual Gigabit Ethernet ports, enabling higher throughput which would otherwise be limited by the 10/100 Ethernet ports seen in other devices
- Provides reliable high performance under all traffic loads using Proxim's Wireless Outdoor Routing Protocol (WORP)

# Non-Line-of-Sight and Advanced Features

- Non-line-of-sight capable, utilizing OFDM and 3x3 MIMO techniques to improve link performance and penetrate through or around obstructions better
- Features dual Gigabit Ethernet ports with PoE in/out to power other devices like surveillance cameras and wireless access points
- Create tiered QoS service classes with ease
- Comes packaged in a compact form factor with a set of accessories for even greater ease of installation

# **Frequency Agnostic**

- Operates in licensed and unlicensed frequency bands
- Provides flexible channel planning with planned support for 2.3 2.5 GHz and 4.9 6.0 GHz frequencies

#### **Carrier-Grade Security**

- Implements tiered security layers 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, SSH and SNMPv3
- Provides military-grade security with AES encryption technology, prevents unsecure clientto-client communications and leverages MAC, Ethertype and IP address packet filtering for granular network security

# **Product Line Compatibility**

- Connects to all existing Tsunami® MP.11 and MeshMAX products
- Can utilize existing mounting kits of the Tsunami product line

PRODUCT MODELS							
MP-8100-BSU	Tourami® MD 9100 Page Station Unit 200 Mbps MIMO 2v2 Type N Connectors						
MP-8100-SUA	Tsunami® MP 8100 Base Station Unit, 300 Mbps, MIMO 3x3, Type-N Connectors  Tsunami® MP 8100 Subscriber Unit, 300 Mbps, MIMO 3x3, Type-N Connectors						
MP-8150-SUR	Tsunami® MP 8150 Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi Integrated antenna						
MP-8150-SUR-100	Tsunami® MP 8150 Subscriber Unit, 2x50 Mbps, MIMO 2x2, 23 dBi Integrated antenna						
INTERFACES							
	One or two auto MDI-X RJ45 10/100/1000Mbps Ethernet						
	- Port #1 with PoE in & Data (all models)						
WIRELSS PROTOCOL		- Port #2 with PoE out (802.3af pin out) & Data (Not available for MP-8150-SUR-100)  WORP™ (Wireless Outdoor Router Protocol)					
RADIO & TX SPECS	WORF (Wileless Outdoor	Router F	Totocoij				
MIMO	3x3 MIMO						
MODULATION	OFDM						
FREQUENCY	2.3 – 2.5 GHz						
	4.9 – 6.0 GHz (Subject to Co		-				
CHANNEL SIZE  DATA RATE	40 MHz, 20 MHz, 10 MHz, 5MHz channel bandwidths  MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection						
DATA NATE	BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps)						
TX POWER	Up to 21 dBm (two Tx chair		or legacy mode (	(0111000 0 1111000)			
TX POWER CONTROL	0 – 25 dB, in 0.5 dB steps. A		TPC with config	gurable EIRP limit			
RX SENSITIVITY	Channel Size		40 MHz	20 MHz	10 MHz	5 MHz	
	MCS 0		-87 dBm	-93 dBm	-94 dBm	-96 dBm	
	MCS 7		-71 dBm	-75 dBm	-78 dBm	-81 dBm	
	MCS 8		-87 dBm	-93 dBm -71 dBm	-94 dBm	-95 dBm	
ANTENNA	MCS 15 Model MP-8100-BSU and M	/P-8100-9	-69 dBm SUA include thre		-74 dBm	-77 dBm	
Training	Model MP-8100-BSU and MP-8100-SUA include three N-type Connectors with built-in Surge Protection  Model MP-8150-SUR(-100) includes an integrated 2x2 MIMO 23 dBi Dual Polarized panel Antenna						
MANAGEMENT			o. stea 2/	2 22 32. 34			
LOCAL	RS-232 serial (RJ11 to DB-9						
REMOTE	Telnet and SSH, WebGUI ar						
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 loca	il time				
SECURITY ENCRYPTION	AES-CCM 128 bits						
AUTHENTICATION	Internal MAC Address Cont	rol List. R	tadius based Aut	hentication (with V	LAN and QoS provis	sioning)	
NETWORK							
MODES	Bridging, Routing (RIP v2 ar	nd IP tunr	neling)				
THROUGHPUT		Model MP-8100-BSU, MP-8100-SUA and MP-8150-SUR up to 200 Mbps					
	Model MP-8150-SUR-100 up to 50 Mbps (TCP) each direction (100 Mbps aggregated)						
GATEWAY FEATURES  QoS	DHCP Server & relay, NAT with Std ALGs, PPPoE end point  Asymmetric Bandwidth Uplink and Downlink CIR Control "committed information rate" per service flow						
QU3	Control Uplink and Downlink MIR Control "maximum information rate" per service flow						
	Packet Classification			priority, IPTOS, VL		•	
	Capabilities source/destination port, Ethernet source/destination address, IP protocol, and						
	Ethertype Scheduling Best Effort, Real Time Polling Services						
A/LANI	Scheduling				da Oino daublada	!	
VLAN	802.1Q: Management VLAN	v. rransp	arent, Access, Tr	unk and wilked mo	de. QINQ double ta	gging	
ENIVIDONINAENITAL CDECC							
TEMPERATURE							
TEMPERATURE  OPERATING	-40º to 60ºC (-40º to 140º F	ahrenhe	it)				
TEMPERATURE	-40º to 60ºC (-40º to 140º F						
TEMPERATURE OPERATING STORAGE HUMIDITY	-55º to 80ºC (-67º to 176º f Max 100% relative humidit	Fahrenhe y (non-co	it)				
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION	-55º to 80ºC (-67º to 176º F	Fahrenhe y (non-co	it)				
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit	Fahrenhe y (non-co	it)				
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS  DIMENSIONS	-55º to 80ºC (-67º to 176º F Max 100% relative humidit 7 Watt typical (17 Watt ma	Fahrenhe y (non-co x)	it) ndensing)	a v 8 18 in /270 × 2	18 v 208 mm\		
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TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS  DIMENSIONS	-55º to 80ºC (-67º to 176º F Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF	P-8100-SU : 15.94 x	it) ondensing) JA: 14.56 x 13.69 15.94 x 9.21 in. (	(405 x 405 x 234 mr	n)		
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS  DIMENSIONS  PACKAGED  UNPACKAGED	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100)	P-8100-SU: 15.94 x	JA: 14.56 x 13.69 15.94 x 9.21 in. I	3.38 in (267 x 267 x	n) c 86 mm)		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8100-BSU or MF Model MP-8100-BSU or MF Model MP-8150-SUR(-100)	P-8100-SU: 15.94 x 2-8100-SU: 15.94 x 2-8100-SU: 14.17 x	it) ondensing)  JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)	n) c 86 mm)		
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS  DIMENSIONS  PACKAGED  UNPACKAGED	-55º to 80ºC (-67º to 176º I Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)	P-8100-SU: 14.17 x	JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)	n) c 86 mm)		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)	P-8100-SU: 15.94 x P-8100-SU: 14.17 x P-8100-SU: 16.31 lb:	JA: 14.56 x 13.69 15.94 x 9.21 in. I JA: 10.5 x 10.5 x 14.17 x 3.70 in (:	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)	n) c 86 mm)		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT	-55º to 80ºC (-67º to 176º I Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)	P-8100-St : 15.94 x P-8100-St : 14.17 x P-8100-St : 16.31 lb P-8100-St	JA: 14.56 x 13.69 15.94 x 9.21 in. J JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k s (7.4 kg) JA: 7.7 lbs (3.5 k	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)	n) c 86 mm)		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)	P-8100-St : 15.94 x P-8100-St : 14.17 x P-8100-St : 16.31 lb P-8100-St	JA: 14.56 x 13.69 15.94 x 9.21 in. J JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k s (7.4 kg) JA: 7.7 lbs (3.5 k	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)	n) c 86 mm)		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º I Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2	P-8100-SU: 15.94 x P-8100-SU: 14.17 x P-8100-SU: 16.31 lbP-8100-SU: 9.0 lbs (	it) Ondensing)  JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) kg)	n) « 86 mm)		
TEMPERATURE  OPERATING  STORAGE  HUMIDITY  POWER CONSUMPTION  PHYSICAL SPECS  DIMENSIONS  PACKAGED  UNPACKAGED  WEIGHT  PACKAGED  UNPACKAGED  IP RATING	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Incomparison of MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2	P-8100-SU : 15.94 x P-8100-SU : 14.17 x P-8100-SU : 16.31 lb P-8100-SU : 9.0 lbs (	JA: 14.56 x 13.69 15.94 x 9.21 in. i JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN in three N-type si	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) kg) 60950 urge protected coni	n)		
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TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  IP67  UL 60950, CAN/CSA-C22.2  One Tsunami® MP 8100 or One Tsunami® MP 8100 or One Tsunami® MP 810	P-8100-St : 15.94 x P-8100-St : 14.17 x P-8100-St : 16.31 lb P-8100-St : 9.0 lbs (	JA: 14.56 x 13.69 15.94 x 9.21 in. J JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN h three N-type so with three N-type:	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) (g) 60950 urge protected conies surge protected cegrated 23dBi dual	n) a 86 mm) nectors, onnectors,	tenna	
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  IP67  UL 60950, CAN/CSA-C22.2  One Tsunami® MP 810 or One Tsunami® MP 81  One power injector and	P-8100-St : 15.94 x P-8100-St : 14.17 x P-8100-St : 16.31 lb P-8100-St : 9.0 lbs (	JA: 14.56 x 13.69 15.94 x 9.21 in. J JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN h three N-type so with three N-type: 100) with an int	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) (g) 60950 urge protected conies surge protected cegrated 23dBi dual	n) a 86 mm) nectors, onnectors,	tenna	
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º I Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8100-BSU or MF Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2  One Tsunami® MP 8100 or One Tsunami® MP 810  One power injector and One Wall/Pole mounting	P-8100-St: 15.94 x P-8100-St: 14.17 x P-8100-St: 16.31 lb: P-8100-St: 9.0 lbs (P-850-St) with 00-SUA vision-style style	JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN in three N-type so with three N-type 100) with an int specific power co	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)  g)  (g)  60950  urge protected conice surge s	n)  R 86 mm)  nectors, onnectors, polarized panel ant		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  IP67  UL 60950, CAN/CSA-C22.2  One Tsunami® MP 810 or One Tsunami® MP 81  One power injector and	P-8100-SU: 15.94 x P-8100-SU: 16.31 lb P-8100-SU: 9.0 lbs ( No. 6095i-BSU with 00-SUR(-country: g kit proofing	JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN in three N-type so with three N-type 100) with an int specific power co	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)  g)  (g)  60950  urge protected conice surge s	n)  R 86 mm)  nectors, onnectors, polarized panel ant		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º I Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2 I One Tsunami® MP 81 or One Tsunami® MP 81 One power injector and One Wall/Pole mountin One Connector weather	P-8100-SU: 15.94 x P-8100-SU: 16.31 lb P-8100-SU: 9.0 lbs ( No. 6095i-BSU with 00-SUR(-country: g kit proofing	JA: 14.56 x 13.69 15.94 x 9.21 in. ( JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  0, IEC 60950, EN in three N-type so with three N-type 100) with an int specific power co	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm)  g)  (g)  60950  urge protected conice surge s	n)  R 86 mm)  nectors, onnectors, polarized panel ant		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2 I One Tsunami® MP 8100 or One Tsunami® MP 81 or One Tsunami® MP 81 One power injector and One Wall/Pole mounting One Connector weather One Serial (RJ-11 to D89	P-8100-St : 15.94 x P-8100-St : 15.94 x P-8100-St : 14.17 x P-8100-St : 9.0 lbs ( No. 6095: -BSU with : 00-SUA v : 50-SUR(-country system) country system; proofing b) dongle	JA: 14.56 x 13.69 15.94 x 9.21 in. I JA: 10.5 x 10.5 x 14.17 x 3.70 in (i JA: 15 lbs (6.8 k as (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg) 0, IEC 60950, EN h three N-type 100) with an int specific power co	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) (g) (g) (60950 urge protected content of the surge protected	n)  R 86 mm)  nectors, onnectors, polarized panel ant		
TEMPERATURE  OPERATING STORAGE HUMIDITY POWER CONSUMPTION PHYSICAL SPECS DIMENSIONS PACKAGED  UNPACKAGED  WEIGHT PACKAGED  UNPACKAGED  IP RATING SAFETY STANDARDS	-55º to 80ºC (-67º to 176º f Max 100% relative humidit 7 Watt typical (17 Watt ma  Model MP-8100-BSU or MF Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100)  Model MP-8150-SUR(-100) Model MP-8150-SUR(-100) IP67 UL 60950, CAN/CSA-C22.2 (100) Or One Tsunami® MP 8100 or One Tsunami® MP 8100 or One Tsunami® MP 8100 One Wall/Pole mounting One Connector weather One Serial (RJ-11 to DBS) One Grounding kit	P-8100-SU: 15.94 x P-8100-SU: 14.17 x P-8100-SU: 16.31 lb: P-8100-SU: 9.0 lbs (P-800-SU: 9.0 lbs (P-800-SU) y lb: P-800-SU with proofing (P-800-SU) with proofing	JA: 14.56 x 13.69 15.94 x 9.21 in.   JA: 10.5 x 10.5 x 14.17 x 3.70 in (  JA: 15 lbs (6.8 k is (7.4 kg) JA: 7.7 lbs (3.5 k 4.1 kg)  O, IEC 60950, EN in three N-type sign of the New York is the New York i	(405 x 405 x 234 mr 3.38 in (267 x 267 x 370 x 370 x 94 mm) g) (sg) (60950 urge protected conice surge protected conice surge protected conice regrated 23dBi dual ord	n)  R 86 mm)  nectors, onnectors, polarized panel and		

 $For detailed technical specifications, please go to \\ \underline{http://proxim.com/products/point-to-multipoint/-tsunami-mp-8100-series/tsunamir-mp-8100/68}$ 

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# **APPLICATIONS**

# Last Mile Access

Competitive broadband service access alternative to DSL or cable for residences and T1 or Ethernet for businesses

# • Security and Surveillance

High definition IP-surveillance cameras for monitoring city streets, airports, bridges, seaports, transportation hubs, offices and warehouses

#### • Metropolitan Area Networks

Secure and reliable connectivity between city buildings

# • Emergency First Responders

Critical information delivery such as medical data and video feeds during in-progress events

# • Enterprise Campus Connectivity

Extend the main network to remote offices, warehouses or other buildings without leased lines

