

Tsunami® MP-8100 Series

Wireless Point-to-Multipoint Systems Delivering 300Mbps Bandwidth



Tsunami® MP-8100 Series

Wireless Product Portfolio

- Tsunami® 8000 Series PtP & PtMP product line delivering 300 Mbps plus data rate
- Tsunami® .11 Series Our best selling Point-to-point and multipoint product
- Tsunami® GX800— Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- Tsunami® QB 62000- High capacity, small footprint PtP backhaul solution with 1Gbps throughput
- 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 data

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

- PtMP solution that can deliver 300 Mbps data rates
- 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
- Spectrum analyzer feature helps to study frequency bands for interference, and select a relatively low interference channel.

Mobile Roaming Enables New Applications

Proxim innovation delivers mobile roaming of Subscriber Units (SU) between Base Station Units (BSU). Public safety first responder networks, transportation system monitoring and telemetry, and mobile security and surveillance are now all possible with a low cost, robust

- Fast handoff at speeds up to 112 km per hour (70 miles per hour).
- Customizable roaming parameter maintains minimum bandwidth required for application performance

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 products

Proxim recommends 60W PoE (not supplied in standard package) when the second Ethernet Port (Ethernet 2) is utilized for power applications

⁴⁸ VDC (15 W average) is tolerable on the second Ethernet port (Ethernet 2). Ensure connected device can support the same voltage Use PoE Splitter (not supplied in standard package) when the second Ethernet port is utilized for data applications

PRODUCT MODELS							
MP-8100-BSU	Tsunami® MP 8100 Base Station Unit, 300 Mbps, MIMO 3x3, Type-N Connectors						
MP-8100-SUA	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						
INTERFACES							
WIRED ETHERNET	Two auto MDI-X RJ45 10/10		•				
	- Port #1 with PoE in & Data (all models)						
LUBELSS PROTOSOL	- Port #2 with PoE out (802.3af pin out) & Data						
WIRELSS PROTOCOL	WORP® (Wireless Outdoor Router Protocol)						
RADIO & TX SPECS							
MIMO	3x3 MIMO						
MODULATION	OFDM						
FREQUENCY	2.3 – 2.5 GHz 4.9 – 6.0 GHz (Subject to Country Regulations)						
CHANNEL CITE		4.9 – 6.0 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz [*] , 5MHz [*] channel bandwidths *Not applicable for DFS Band					
CHANNEL SIZE	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection						
DATA RATE	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps)						
TX POWER	Up to 21 dBm (two Tx chain)						
TX POWER CONTROL	0 – 25 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit						
RX SENSITIVITY	Channel Size		40 MHz	20 MHz	10 MHz	5 MHz	
(BER=10 ⁻⁶)	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	-94 dBm	-95 dBm	
	MCS 15		-69 dBm	-71 dBm	-74 dBm	-77 dBm	
ANTENNA	Model MP-8100-BSU and N			**			
	Model MP-8150-SUR include	Model MP-8150-SUR includes an integrated 2x2 MIMO 23 dBi Dual Polarized panel Antenna					
MANAGEMENT							
LOCAL	RS-232 serial (RJ11 to DB-9						
REMOTE	· · · · · · · · · · · · · · · · · · ·	Telnet and SSH, WebGUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB					
SNMP OTHER	Syslog, sFlow™ agent, SNTP				RFC-3414, Private iv	IIB	
SECURITY	Sysiog, sriow agent, sivin	and local ti	ine, spectrum a	anaryzer			
ENCRYPTION	AES-CCM 128 bits						
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)						
NETWORK				(**************************************			
MODES	Bridging, Routing (RIP v2 and IP tunneling)						
THROUGHPUT	Model MP-8100-BSU, MP-8100-SUA and MP-8150-SUR up to 200 Mbps						
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, PPPoE end point						
QoS	Asymmetric Bandwidth Uplink and Downlink CIR Control "committed information rate" per service flow						
	Control Uplink and Downlink MIR Control "maximum information rate" per service flow Packet Classification 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address,						
	Packet Classification	802.1D/8	02.1Q/802.1p p	riority, IPTOS, VLA	N ID, IP source/de	stination address,	
		802.1D/8 source/de	02.1Q/802.1p p estination port,	riority, IPTOS, VLA		stination address,	
	Packet Classification	802.1D/8 source/de Ethertype	02.1Q/802.1p pestination port,	riority, IPTOS, VLA Ethernet source/o	N ID, IP source/de	stination address,	
VLAN	Packet Classification Capabilities	802.1D/8 source/de Ethertype Best Effor	02.1Q/802.1p pestination port, e rt, Real Time Po	riority, IPTOS, VLA Ethernet source/o Iling Services	NN ID, IP source/des destination address	stination address, , IP protocol, and	
VLAN POWER CONSUMPTION	Packet Classification Capabilities Scheduling	802.1D/8 source/de Ethertype Best Effor N. Transpare	02.1Q/802.1p pestination port, e rt, Real Time Po	riority, IPTOS, VLA Ethernet source/o Iling Services	NN ID, IP source/des destination address	stination address, , IP protocol, and	
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POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED IP RATING SAFETY STANDARDS	Packet Classification Capabilities Scheduling 802.1Q: Management VLAN 7 Watt typical (17 Watt ma -40º to 60ºC (-40º to 140º H -55º to 80ºC (-67º to 176º H Max 100% relative humidit Model MP-8100-BSU or MF Model MP-8150-SUR: 15.94 Model MP-8150-SUR: 14.17 Model MP-8150-SUR: 14.17 Model MP-8150-SUR: 9.0 H Model MP-81	802.1D/8 source/de Ethertype Best Effor V. Transpare X. T	02.1Q/802.1p pestination port, estriation port, estriation port, estriation port, estriation port, estrict, Real Time Poent, Access, Truidellersing) 1.14.56 x 13.69 v) 1.14.56 x 13.69 v) 1.10.5 x 10.5 x 3 1.70 in (370 x 37 1.15 lbs (6.8 kg) 1.15	riority, IPTOS, VLA Ethernet source/c Ethernet s	IN ID, IP source/de: destination address le. QinQ double tag le. QinQ mm) 88 x 208 mm) 86 mm)	rination address, , IP protocol, and gging	
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POWER CONSUMPTION ENVIRONMENTAL SPECS TEMPERATURE OPERATING STORAGE HUMIDITY PHYSICAL SPECS DIMENSIONS PACKAGED UNPACKAGED WEIGHT PACKAGED UNPACKAGED IP RATING SAFETY STANDARDS	Packet Classification Capabilities Scheduling 802.1Q: Management VLAN 7 Watt typical (17 Watt ma -40º to 60ºC (-40º to 140º to -55º to 80ºC (-67º to 176º to Max 100% relative humidit Model MP-8100-BSU or MF Model MP-8150-SUR: 15.94 Model MP-8150-SUR: 14.17 Model MP-8100-BSU or MF Model MP-8150-SUR: 16.33 Model MP-8150-SUR: 16.31 Model MP-8150-SUR: 9.0 lt IP67 UL 60950, CAN/CSA-C22.2 l One Tsunami® MP 8100 SUA with three N-type s 23dBi dual polarized pai One power injector and One Wall/Pole mountin One Connector weather	802.1D/8 source/de Ethertype Best Effor V. Transpare X. T	02.1Q/802.1p pestination port, sestination port,	riority, IPTOS, VLA Ethernet source/c Ethernet source/c Illing Services nk and Mixed mod 8.18 in. (370 x 34 05 x 234 mm) 38 in (267 x 267 x 0 x 94 mm) 0950 ge protected conn or One Tsunami® d	IN ID, IP source/des destination address de. QinQ double tag de. QinQ double tag	nami® MP 8100-h an integrated	
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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

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

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