

Tsunami™ MultiPoint 8200 Series

Wireless Point-to-Multipoint Systems Delivering 300Mbps Data Rate



Tsunami™ MP-8200 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 line

• Tsunami™ GX-800 Series

Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications

• ORINOCO® AP 8000 Series

The industry's highest performance 802.11a/b/g/n access points

Proxim Wireless is a global pioneer of 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.

Experience superior performance and unparalleled flexibility with our Tsunami™ MP-8200 wireless series

Paving a new path in the wireless industry, Proxim addresses the requirement for a versatile and a high performance wireless solution, with the Tsunami™ 8200 series. The Tsunami® MP-8200 delivers data rates of 300 Mbps along with excellent spectrum flexibility and high power radios capable of 25.8 dBm Tx power for extended coverage.

The Tsunami™ MP-8200 features nLoS functionality and leverages the advantages of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP®) to provide in excess of 4G speeds with QoS class of service for delivering voice, video and data applications

With supreme throughput, high power radio, flexible channel features and dual Gigabit Ethernet ports with PoE out, for powering additional devices, the Tsunami™ MP-8200 series is an ideal solution for service providers and government organizations with requirements of all kinds, from last mile broadband wireless access (BWA) to wireless video surveillance and more.

World-class Performance

- Point to Multipoint solution that can deliver 300 Mbps data rates
- High power radio capable of up to 25.8 dBm Tx power to extend the range and coverage
- Provides reliable high performance under all traffic loads using Proxim's Wireless Outdoor Routing Protocol (WORP®)
- Dual IPv4 and IPv6 stack for transparent evolution to tomorrow networks
- Seamless roaming up to 295 km/h (185 mph)

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
- Enables packet identification 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
- Spectrum analysis feature helps to study frequency bands for interference, and select a relatively low interference channel.

Frequency Agnostic

- Operates in licensed and unlicensed frequency bands
- Flexible channel planning with 5, 10, 20 and 40MHz size
- Provides support for extended frequency bands from 4.900 to 5.925 GHz

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-8100 and Tsunami™ MP.11

PRODUCT MODELS						
MP-8200-BSU	Tsunami™ MP 8200 Base Station Unit, 300 Mbps, MIMO 3x3, Type-N Connectors					
MP-8250-BS1	Tsunami™ MP 8250 Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° panel antenna					
MP-8250-BS9	Tsunami™ MP 8250 Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90° sector antenna					
MP-8200-SUA	Tsunami™ MP 8200 Subscriber Unit, 300 Mbps, MIMO 3x3, Type-N Connectors					
MP-8250-SUR	Tsunami™ MP 8250 Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi Integrated Antenna					
INTERFACES						
	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet					
	- Port #1 with PoE in & Data					
	- Port #2 with PoE out (802.3af pin out) & Data					
WIRELSS PROTOCOL	WORP® (Wireless Outdoor Router I	Protocol)				
RADIO & TX SPECS						
MIMO	3x3MIMO					
MODULATION	OFDM with BPSK, QPSK, QAM16, Q	•				
FREQUENCY	4.900 – 5.925 GHz (Subject to Coun					
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz*, 5 MHz* channel bandwidths * Not applicable for DFS Band					
	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection					
TV 0011/50	BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps)					
TX POWER	Up to 25.8dBm (Triple chain)					
TX POWER CONTROL	0 – 25 dB, in 0.5 dB steps. Automat					
	Channel Size	40 MHz	20 MHz	10 MHz	5 MHz	
	MCS 0	-87 dBm	-93 dBm	-95 dBm	-98 dBm	
	MCS 7	-71 dBm	-74 dBm	-76 dBm	-79 dBm	
	MCS 8	-87 dBm	-91 dBm	-93 dBm	-96 dBm	
071150	MCS 15	-68 dBm	-72 dBm	-74 dBm	-77 dBm	
	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					
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ANTENNA	MP-8200-BSU or SUA		nectors with built-in Su			
	MP-8250-BS1 or SUR		MO 23dBi Dual Polariz			
	MP-8250-BS9	Integrated 2x2 MI	MO 16dBi Dual Polariz	ed 90 degree	e Sector Antenna	
MANAGEMENT	DC 000					
LOCAL	RS-232 serial (RJ11 to DB-9 dongle provided)					
REMOTE	Telnet and SSH, Web GUI and SSL, 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 loc	Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer				
SECURITY						
ENCRYPTION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)					
AUTHENTICATION	Internal MAC Address Control List,	Radius based Auther	ntication (with VLAN a	nd QoS provi	isioning)	
NETWORK	2111 2 11 (212 2 112)	11. A				
MODES	Bridging, Routing (RIP v2 and IP tunneling)					
IP STACK	IPv4 and IPv6 simultaneously					
THROUGHPUT	Up to 240 Mbps	ALC: DDD:E	Coto (III) Documents			
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS Asymmetric Bandwidth Control UL and DL CIR Control "committed information rate" per service flow					
QoS		III I DI CID C		and the second of the		
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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

 $For detailed technical specifications, please go to \underline{http://proxim.com/products/point-to-multipoint/tsunamir-mp-8200-series}$

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