

Tsunami<sup>®</sup> MP-8200 Series

### End-to-End Broadband Wireless Product Portfolio

- Tsunami<sup>®</sup> 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<sup>®</sup> AP The industry's highest performance 802.11a/b/g/n access points
- **Tsunami® MP.16** WiMAX for the 3.3 3.65 GHz frequency bands

**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.

## Experience superior performance with unparalleled flexibility of upto 1 Mhz channel spacing with our Tsunami<sup>®</sup> 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<sup>®</sup> 8200 series. The Tsunami<sup>®</sup> MP-8200 delivers data rates of 300 Mbps along with excellent spectrum flexibility of upto 1MHz channel spacing and high power radios capable of 26 dBm Tx power for extend coverage.

The Tsunami<sup>®</sup> 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<sup>®</sup> 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.

#### **Supreme Performance**

- A fixed PtMP solution that can deliver 300 Mbps data rates
- High power radio capable of up to 26 dBm Tx power to extend the range and coverage
- 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 2x2 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

#### **Frequency Agnostic**

- Operates in licensed and unlicensed frequency bands
- Flexible channel planning with 5, 10, 20 and 40MHz support with 1MHz channel spacing
- Provides support for extended frequency bands from 4.9 to 5.9 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<sup>®</sup> MP.11, Tsunami<sup>®</sup> 8100, and MeshMAX products
- Can utilize existing mounting kits of the Tsunami product line

PRODUCT MODELS								
MP-8200-BSU-US	Tsunami <sup>®</sup> MP 8200 Base St	ation Uni	t. 300 Mbps. MIMO	2x2. Type-N Cor	nnectors –US PoE			
MP-8250-BS9-US	Tsunami® MP 8200 Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors –US PoE Tsunami® MP 8250 Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90° sector antenna – US PoE							
MP-8200-SUA-US	Tsunami® MP 8200 Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors – US PoE							
MP-8250-SUR-US	Tsunami <sup>®</sup> MP 8250 Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, panel antenna – US PoE							
INTERFACES								
WIRED ETHERNET	Two auto MDI-X RJ45 10/1	00/1000	Abos Ethernet					
	- Port #1 with PoE in & Data							
	- Port #2 with PoE out (802.3af pin out) & Data							
WIRELSS PROTOCOL	WORP (Wireless Outdoor Router Protocol)							
RADIO & TX SPECS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
MIMO	2x2 MIMO							
MODULATION	OFDM with BPSK, QPSK, Q/	AM16 04	M64					
FREQUENCY	4.900 – 5.925 GHz (Subject							
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz,			vith support for 1	MHz channel snaci	nσ		
DATA RATE					initiz channel spach	ď'		
	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) BPSK, QPSK, 16-QAM and 64-QAM for legacy mode (6Mbps - 54Mbps)							
TX POWER	Up to 26dBm (two Tx chain)							
TX POWER CONTROL	0 – 25 dB, in 1dB steps	'/						
RX SENSITIVITY		Channel Size 40 MHz 20 MHz				5 MHz		
(BER=10 <sup>-6</sup> )	MCS 0		-89 dBm	-93 dBm	10 MHz -98 dBm	-98 dBm		
	MCS 0 MCS 7			-93 dBm				
			-73 dBm -89 dBm		-78 dBm	-78 dBm		
	MCS 8			-91 dBm	-95 dBm	-97 dBm		
	MCS 15 -69 dBm -70 dBm -73 dBm -75 dBm -75 dBm							
ANTENNA	Model MP-8200-BSU and MP-8200-SUA include two N-type Connectors with built-in Surge Protection							
	Model MP-8250-BS9 includes an integrated 2x2 MIMO 16 dBi Dual Polarized 90° sector Antenna Model MP-8250-SLIB includes an integrated 2x2 MIMO 23 dBi Dual Polarized papel Antenna							
	Model MP-8250-SUR includes an integrated 2x2 MIMO 23 dBi Dual Polarized panel Antenna							
MANAGEMENT								
LOCAL		RS-232 serial (RJ11 to DB-9 dongle provided)						
REMOTE	Telnet and SSH, WebGUI and SSL, TFTP, SNMPv3							
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB							
NETWORK								
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, Bridging, Routing, Syslog, SNTP Asymmetric Bandwidth Uplink and Downlink CIR Control "committed information rate" per service flow							
QoS	Asymmetric Bandwidth							
	Control		and Downlink MIR					
	Packet Classification		/802.1Q/802.1p pr					
	Capabilities source/destination port, Ethernet source/destination address, IP protocol, and							
	Ethertype           Scheduling         Best Effort, Real Time Polling Services							
X // A A I								
VLAN	802.1Q: Management VLAN. Transparent, Access and Trunk mode							
ENVIRONMENTAL SPECS								
TEMPERATURE	400 kg 6000 / 400 kg 4 400	e - I I	***					
OPERATING			-40º to 60ºC (-40º to 140º Fahrenheit)					
	-55º to 80ºC (-67º to 176º Fahrenheit)							
STORAGE		1						
HUMIDITY	Max 100% relative humidit	y (non-co						
HUMIDITY PHYSICAL SPECS		y (non-co						
HUMIDITY PHYSICAL SPECS DIMENSIONS	Max 100% relative humidit	•••	ndensing)					
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED	Max 100% relative humidit PACKAGED 14.56 x 13.69 x	8.18 in. (	ndensing) 370 x 348 x 208 mn					
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LXWXH)	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1	8.18 in. ( 4 x 3.38 i	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m	im)				
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LXWXH) INTEGRATED ANTENNA	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1 PACKAGED 15.94 x 15.94 x	8.18 in. ( 4 x 3.38 i 8.46 in (4	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m 105 x 405 x 215 mm	im) i)				
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HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LXWXH) INTEGRATED ANTENNA	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1 PACKAGED 15.94 x 15.94 x UNPACKAGED 14.57 x 14.5	8.18 in. ( 4 x 3.38 i 8.46 in (4	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m 105 x 405 x 215 mm	im) i)				
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LxWxH) INTEGRATED ANTENNA (LxWxH) WEIGHT	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1 PACKAGED 15.94 x 15.94 x PACKAGED 15.05 (5.8 kg)	8.18 in. ( 4 x 3.38 ii 8.46 in (4 7 x 4.47 ii	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m 105 x 405 x 215 mm	im) i)				
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LxWxH) INTEGRATED ANTENNA (LxWxH) WEIGHT CONNECTORIZED	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1 PACKAGED 15.94 x 15.94 x UNPACKAGED 14.57 x 14.5 PACKAGED 15 lbs (6.8 kg) UNPACKAGED 7.7 lbs (3.5 k	8.18 in. ( 4 x 3.38 ii 8.46 in (4 7 x 4.47 ii	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m 105 x 405 x 215 mm	im) i)				
HUMIDITY PHYSICAL SPECS DIMENSIONS CONNECTORIZED (LxWxH) INTEGRATED ANTENNA (LxWxH) WEIGHT	Max 100% relative humidit PACKAGED 14.56 x 13.69 x UNPACKAGED 10.79 x 11.1 PACKAGED 15.94 x 15.94 x UNPACKAGED 14.57 x 14.5 PACKAGED 15 lbs (6.8 kg) UNPACKAGED 5 lbs (6.8 kg) PACKAGED 16.53 lbs (7.5 k	8.18 in. ( 4 x 3.38 in 8.46 in (4 7 x 4.47 in (g) g)	ndensing) 370 x 348 x 208 mn n (274 x 283 x 86 m 105 x 405 x 215 mm	im) i)				
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# Tsunami<sup>®</sup> MP-8200 Series

**Technical Specifications** 

### **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/-tsunamir-mp-8200-series/tsunamir-mp-8100.html

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