



6.4 GHz Wireless Product Family for WISP and Mobility Applications

The Tsunami[®] MP-8260 series, is the latest in our range of 6.4 GHz point-to-multipoint products. They support a data rate that delivers up to 300 Mbps over a 40 MHz channel. Designed specifically to work with the MP-826-CPE products, the Tsunami[®] MP-8260 benefits from all features of the latest Tsunami[®] MultiPoint products but with the benefit of operating in the 6.4 GHz band.

The Tsunami[®] MP-8260 Base Stations combined with the MP-826-CPE are an ideal solution for large-scale wireless deployments and provide an excellent value proposition to WISPs planning wireless broadband last-mile access deployments.

This platform also features a carrier-grade prioritization platform supporting multiple service classes and able to prioritize voice, video and data applications to enable granular management of customer service features.

High Value, Long Service Life

The combination of high reliability, license-free frequency bands, and guaranteed compatibility with past, current and future Proxim base station models, ensures a long service life, and an excellent return on investment.

- Designed for harsh environments, the Tsunami[®] MP-8260 series is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature range.

Flexible, Fast and Secure

- Designed to deliver up to 300 Mbps of throughput.
- Provides flexible channel planning with support for 5.900 to 6.425 GHz
- Comes with a 2x2 MIMO high power radio capable of 25 dBm transmit power
- Advanced encryption protects over-the-air transmission via AES-128
- Uses Proxim's Wireless Outdoor Routing Protocol (WORP[®]) to prevent snooping
- Radio mutual authentication eliminates unauthorized use of the system by rogue subscriber units and man-in-the middle attacks

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
- Spectrum analyzer to analyze frequency bands for interference, and select the best available channel

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.

Carrier-Grade Solution

- 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.

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).

Product Line Compatibility

- Connects to Tsunami® MP-8160 (rev 10 or higher) and MP-826 released since Q2 2014
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

Specifications

PRODUCT MODELS		PART NUMBERS			
MP-8260-BSU-WD	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors	901-00286 MP-8260-BSU-WD			
MP-8260-BS9-WD	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, 16dBi, 90° sector antenna	901-00287 MP-8260-BS9-WD			
MP-8260-SUA-WD	Tsunami MP-8260 Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors	901-00194 MP-8260-SUA-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				
FREQUENCY	5.900 – 6.425 GHz (Subject to Country Regulations)				
CHANNEL SIZE	40 MHz, 20 MHz, 10 MHz, 5 MHz				
DATA RATE	MCS 0 to 9 with Dynamic Data Rate Selection				
TX POWER	Up to 25 dBm (dual chain)				
TX POWER CONTROL	0 - 22 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit				
	40 MHz	20 MHz	10 MHz	5 MHz	
TX POWER	MCS0: 25	MCS0: 25	MCS0: 25	MCS0: 25	
	MCS7: 20	MCS8: 20	MCS8: 20	MCS8: 20	
	MCS8: 25	MCS8: 25	MCS8: 25	MCS8: 25	
	MCS15: 20	MCS8: 20	MCS8: 20	MCS8: 20	
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -92	MCS0: -95	MCS0: -97	
	MCS7: -69	MCS8: -72	MCS8: -75	MCS8: -77	
	MCS8: -88	MCS8: -90	MCS8: -93	MCS8: -96	
	MCS15: -61	MCS8: -68	MCS8: -70	MCS8: -73	
THROUGHPUT	Up to 222 Mbps	Up to 121 Mbps	Up to 50 Mbps	Up to 22 Mbps	
OTHER	Dynamic Channel Selection (DCS) based on interference detection Automatic Transmit Power Control (ATPC) with EIRP limit support				
ANTENNA					
MP-8260-BSU/SUA	Two N-type Connectors with built-in Surge Protection				
MP-8260-BS9	Integrated 2x2 MIMO 16dBi Dual Polarized 90 degree Sector Antenna				
MANAGEMENT					
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 local time, Spectrum analyzer				

SYNCHRONIZATION				
	Pass-through 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 Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			
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				
	18 Watt typical			
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 (124.2 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
MP-8260-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-8260-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)
SAFETY STANDARDS				
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> • One Tsunami® MP-8260-BSU/SUA with two N-type surge protected connectors Or One Tsunami® MP-8260-BS9 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.			