Tsunami® MP-8260 series

6.4 GHz Point-to-Multipoint Wireless Solution

Extend your multipoint network to 6.4 GHz band with Tsunami® MP-8260 series
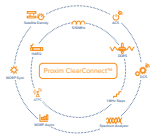
Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range and mobile broadband wireless solutions.

Proxim introduces the Tsunami® MP-8260, an evolution to MP-8160 6.4 GHz series, that delivers up to 300 Mbps data rate in a 40 MHz channel. The Tsunami® MP-8260 benefits from all advantages, features and innovation of the latest Tsunami® MultiPoint products.

The Tsunami® MP-8260 supports the following features specifically for last miles access, video surveillance or mobility application that need very high-speed broadband wireless access:

Proxim WORP®, a highly evolved QoS platform tailored to deliver voice, video and data applications

Proxim ClearConnect™, a suite of different techniques all working together to ensure robust and reliable radio communications in noisy deployments

Proxim FastConnect™, a High Speed Mobility solution for Buses, Trains, Metros and Ferries

World Class Performance

- Point-to-Multipoint system that delivers up to 300 Mbps data rate Dual IPv4 and IPv6 stack for transparent evolution to tomorrow's networks
- Triple level login with monitoring, simplified or advanced web interface
- Built-in feature rich network protocols for bridging, routing and gateway functionality
- High Speed Mobility up to 185 mph (295 km/h)

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

Carrier-Grade Backhaul

- 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

Product Line Compatibility

- Connects to all existing 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

PRODUCT MODELS

		PART NUMBERS	
MP-8260-BSU	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors	901-00286	MP-8260-BSU-WD
MP-8260-BS9	Tsunami MP-8260 Base Station Unit, 300 Mbps, MIMO 2x2, 16dBi, 90° sector antenna	901-00287	MP-8260-BS9-WD
MP-8260-SUA	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	MCS7: 20	MCS7: 20	MCS7: 20
	MCS8: 25	MCS8: 25	MCS8: 25	MCS8: 25
	MCS15: 20	MCS15: 20	MCS15: 20	MCS15: 20
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -92	MCS0: -95	MCS0: -97
	MCS7: -69	MCS7: -72	MCS7: -75	MCS7: -77
	MCS8: -88	MCS8: -90	MCS8: -93	MCS8: -96
	MCS15: -61	MCS15: -68	MCS15: -70	MCS15: -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 (PoE – software controlled)
12 VDC via Access port	12 VDC on Access port
Power should not be provided simultaneously on both ports	

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

PRODUCT MODELS	DIMENSIONS PACKAGED (per unit)	DIMENSIONS UNPACKAGED (per unit)	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

- 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