

Tsunami® MP-8260 series

Point-to-Multipoint 6.4 GHz Wireless Product Family



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 and MP-826-CPA 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.

- License-free frequency bands worldwide provide reliable wireless broadband without the high cost and delays associated with licensed frequencies
- 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

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.

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

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).

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.

| 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 | | | | |
| TX POWER | 40 MHz | 20 MHz | 10 MHz | 5 MHz | |
| | 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 | | | | | |
| | <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) | | <ul style="list-style-type: none"> 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 | | | | |