



Wireless Point-to-Multipoint System Delivering 300Mbps Bandwidth



Tsunami™ MP-8100 Series

End-to-End Broadband Wireless Product Portfolio

- Tsunami™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®AP The industry's highestperformance 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.

Presenting a Wireless Solution that Exceeds 4G Speed Requirements with 300 Mbps Bandwidth!

With over 20 years of wireless innovation, Proxim has been providing Point-to-Multipoint (PtMP) solutions to carriers of all sizes for many years. Leveraging the advantages of OFDM, MIMO radio innovations and Proxim's proprietary Wireless Outdoor Routing Protocol (WORP), the Tsunami™ MP-8100 exceeds the ITU requirements for 4G throughput speeds while providing Non-Line-Of-Sight functionality with the widest range of frequencies available. With incredible channel capacity, excellent spectrum flexibility and a prioritization platform for delivering voice, video and data applications, the MP-8100 satisfies service providers and government organizations with requirements for fast and worry-free wireless connectivity.

With data rates of 300 Mbps, the Tsunami™ MP-8100 is an ideal solution for everything from last mile broadband wireless access (BWA) to wireless video surveillance. As the industry's first PtMP product to provide dual Gigabit Ethernet ports with PoE out, the Tsunami™ MP-8100 becomes the first solution capable of powering IP video cameras or additional radios for even greater ease of deployment.

World-class Performance

- A fixed PtMP solution that can deliver 300 Mbps data rates
- 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 enhanced 3x3 MIMO techniques to improve link performance and penetrate through or around obstructions better
- Comes packaged in a compact form factor with a set of accessories for even greater ease of installation
- 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

Widest Range of Frequencies

- Operates in licensed and unlicensed frequency bands
- Provides flexible channel planning with planned support for 2.3 2.5 GHz and 4.9 6.0 GHz frequencies

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 client-to-client communications and leverages MAC, Ethertype and IP address packet filtering for granular network security

Part of a Product Family

- Connects to all existing Tsunami MP.11 and MeshMAX products
- Can utilize existing mounting kits of the Tsunami product line

| PRODUCT MODELS | | | | | |
|-----------------------------|--|--|---------------------------------|--------|--|
| MP-8100-BSU-US | | | | | |
| MP-8100-SUA-US | Tsunami™ MP 8100 Subscriber Unit, 5.8 GHz, Type-N Connectors - US PoE | | | | |
| MP-8150-SUR-US | Tsunami™ MP 8150 Subscriber Unit, 5.8 GHz, MIMO 2x2, 21 dBi Integrated antenna - US PoE | | | | |
| MP-8100-BSU-WD | | Tsunami™ MP 8100 Base Station Unit, 300 Mbps, 2.4 and 5 GHz, Type-N Connectors - WD PoE | | | |
| MP-8100-SUA-WD | | Tsunami TM MP 8100 Subscriber Unit, 2.4 and 5 GHz, Type-N Connectors - WD PoE | | | |
| MP-8150-SUR-WD | Tsunami™ MP 8150 Subscriber Unit, 5 GHz, MIMO 2x2, 21 dBi Integrated antenna - WD PoE | | | | |
| INTERFACES | | | | | |
| WIRED ETHERNET | Two auto MDI-X RJ45 10/100/1000Mbps Ethernet | | | | |
| | - Port #1 with PoE in & D | Data | | | |
| | - Port #2 with PoE out (802.3af pin out) & Data | | | | |
| WIRELESS PROTOCOL | WORP (Wireless Outdoor Router Protocol) | | | | |
| RADIO & TX SPECS | | | | | |
| MIMO | 3x3 MIMO | | | | |
| MODULATION | OFDM with BPSK, QPSK, QAM16, QAM64 | | | | |
| FREQUENCY | 2.3 – 2.5 GHz | | | | |
| | 4.9 – 6.0 GHz (Subject to C | ountry Reg | ulations) | | |
| CHANNEL SIZE | 40 MHz, 20 MHz, 10 MHz*, 5MHz* | | | | |
| DATA RATE | MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) | | | | |
| | BPSK, QPSK, 16-QAM and | 64-QAM fo | or legacy mode (6Mbps - 54Mbps) | | |
| TX POWER | Up to 18dBm at antenna port | | | | |
| TX POWER CONTROL | 0 – 18dB, in 1dB steps | | | | |
| RX SENSITIVITY (BER=10°) | Channel Size | | 40 MHz | 20 MHz | |
| | MCS 0 / MCS 8 | | -87dBm | -93dBm | |
| | MCS 7 | | -71dBm | -75dBm | |
| | MCS 15 | | -69dBm | -71dBm | |
| ANTENNA | Model MP-8150-SUR includes an Integrated 2x2 MIMO 21dBi Dual Polarized Antenna | | | | |
| | Model MP-8100-BSU and MP-8100-SUA includes three N-type Antennas Connectors with bulit-in Surge | | | | |
| | Protection | | | | |
| 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 | —————————————————————————————————————— | | | | |
| QoS | Asymmetric Bandwidth Control Uplink and Downlink CIR Control "committed information rate" per service fl Uplink and Downlink MIR Control "maximum information rate" per service fle | | | | |
| | Packet Classification Capabilities 802.1D/802.1Q/802.1p priority, IPTOS, VLAN ID, IP source/destination address, source/destination port, Ethernet source/destination address, IP protocol, and Ethertype | | | | |
| | Scheduling | Best Effort, Real Time Polling Services | | | |
| VLAN | 802.1Q: Management VLAN. Transparent, Access and Trunk mode | | | | |

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

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

| ENVIRONMENTAL SPECS | |
|---------------------|--|
| TEMPERATURE | |
| OPERATING | -40° to 60°C (-40° to 140° Fahrenheit) |
| STORAGE | -55° to 80°C (-67° to 176° Fahrenheit) |
| HUMIDITY | Max 100% relative humidity (non-condensing) |
| PHYSICAL SPECS | |
| DIMENSIONS | |
| PACKAGED | 15.94 x 15.94 x 8.46 in (405 x 405 x 215 mm) |
| UNPACKAGED | 10.51 x 10.51 x 3.27 in (267 x 267 x 83 mm) |
| WEIGHT | |
| PACKAGED | 14.77 lbs (6.7 kg) |
| UNPACKAGED | 7.27 lbs (3.3 kg) |
| IP RATING | IP67 |
| SAFETY STANDARDS | UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 |
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PACKAGE CONTENTS

- One Tsunami™ MP 8100-BSU with three N-type surge protected connectors, One Tsunami™ MP 8150-SUR with 5 GHz dual polarity 21 dBi Integrated antenna, or One Tsunami™ MP 8100-SUA with three N-type surge protected connectors
- One power injector and country specific power cord
- One Wall/Pole mounting kit
- One Connector weatherproofing kit (Includes all recommended weatherproofing material)
- Three N-connector weather proofing caps installed at factory (for Connectorized Version Only)
- One Serial (RJ-11 to DB9) dongle
- One Grounding kit
- One Gigabit PoE Surge Arrestor
- One Documentation
- Software CD-ROM

1-year on parts and labor; ServPak Extended Support available



^{*}Available by Firmware Upgrade