



Tsunami™ MP 8100 CPE Series

End-to-End Broadband Wireless Product Portfolio

Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products.

This portfolio includes:

- **Tsunami™ MP-8100** – Proxim's Point-to-Multipoint Product line delivering wireless performance in excess of 4G products on the market today.
- **Tsunami™ MP.11** – Proxim's best selling Point-to-Multipoint product line for global markets
- **Tsunami™ QB-8100** – Proxim's Point-to-Point Product line delivering wireless performance in excess of 4G products on the market today
- **ORINOCO® Access Point** - World-class performance enterprise 11n Access Points

Proxim Wireless is a global pioneer of end-to-end broadband wireless systems that deliver quadruple play services. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

Presenting Proxim's next generation Point-to-Multipoint subscriber unit

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range broadband wireless solutions. Leveraging the advantages of OFDM, MIMO radio innovations along with Proxim's proprietary Wireless Outdoor Routing Protocol (WORP), the Tsunami™ 8100 CPE is a feature rich customer premises equipment specifically designed for the carrier, service provider and WISP market.

The low cost outdoor form factor of the Tsunami™ 8100 CPE is an ideal solution for large-scale wireless deployments suitable for all last-mile broadband wireless access deployments.

This CPE is also feature rich with a carrier-grade prioritization platform supporting multiple service classes that can prioritize voice, video and data applications over the widest range of operating frequencies.

Performance and Features

- Available in both connectorized and integrated antenna variants
- 100Mbps of throughput performance with maximum data rates up to 300Mbps
- Carrier grade advanced security with AES-256 bit encryption and built-in feature-rich network protocols for bridging, routing and gateway functionality
- Supports Large ethernet frame up to 2048 bytes for backhauling MPLS traffic in carrier class deployments
- Provides flexible channel planning with support for 2.3 to 2.5 GHz and 4.9 to 6.1 GHz
- Comes with a 2x2 MIMO high power radio capable of 24dBm transmit power
- Flexible bandwidth allocation for service tiers

Reducing Costs for Wireless ISPs

- License-free frequency bands worldwide provide reliable wireless broadband without the high cost of licensed frequencies
- Low-cost bundle including both radio and mounting kit provides the industry's most aggressive price point, enabling any deployment to enjoy a quick return on investment

Easy to Install

- Comes as a complete compact outdoor form factor offering unprecedented ease of installation and compatible with Tsunami™ MP-8100 products
- Deployment tools include antenna alignment and remote management configuration
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas

All-in-One CPE with Security & Gateway Features

- Built-in feature rich network protocols for Bridging, Routing and Gateway functionality
- Advanced encryption protects over-the-air transmission via AES-256
- Radio mutual authentication eliminates unauthorized use of the system by rogue subscriber units and man-in-the middle attacks
- MAC, Ether type, IP address packet filtering provides granular network security
- Uses Proxim's Wireless Outdoor Routing Protocol (WORP) to prevent snooping
- Features highly-secure remote management via SSL, SSH and SNMPv3

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|-----------------------------|---|
| Product Models | |
| MP-8150-CPE-100a-US | Tsunami™ MP 8150 Customer Premises Equipment, 100Mbps, MIMO 2x2, 16dBi Integrated antenna – US SKU |
| MP-8150-CPE-100a-WD | Tsunami™ MP 8150 Customer Premises Equipment, 100Mbps, MIMO 2x2, 16dBi Integrated antenna – World SKU |
| MP-8100-CPE-100c-US | Tsunami™ MP 8100 Customer Premises Equipment, 100Mbps, MIMO 2x2, Type-N Connectors – US SKU |
| MP-8100-CPE-100c-WD | Tsunami™ MP 8100 Customer Premises Equipment, 100Mbps, MIMO 2x2, Type-N Connectors – World SKU |
| Radio & TX Specs | |
| MIMO | 2x2 |
| Modulation | OFDM with BPSK, QPSK, 16QAM, 64QAM |
| Operating Frequency | 2.3 - 2.5 GHz, 4.9 - 6.1 GHz (Subject to Country Regulations and product model) |
| Channel Size | 5MHz, 10MHz, 20MHz and 40MHz |
| Data Rate | Up to 300Mbps |
| TX Power | Up to 24dBm |
| TX Power Control | 0.5 dB steps |
| Latency | 5ms (typical) |
| Wireless Encryption | 128-bit & 256-bit AES ¹ |
| Antenna | |
| INTEGRATED MODEL | Integrated 16dBi dual polarized (H+V) panel antenna |
| CONNECTORIZED MODEL | 2 Type-N Connectors |
| Interfaces | |
| Wired Ethernet | One Auto MDI-X RJ45 100Mbps Ethernet port |
| Wireless Protocol | WORP (Wireless Outdoor Router Protocol) |
| Management | |
| Local | RS-232 serial port with RJ11 front face |
| 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 NETWORK |
| Network | |
| Large Frame | Up to 2048 bytes |
| Throughput | 100Mbps (Max) |
| Gateway Features | DHCP Client, Server, Relay, NAT with Std ALGs, Bridging, Routing & Syslog |
| QoS | Asymmetric Bandwidth Control, Packet Classification Capabilities, Scheduling |
| VLAN | 802.1Q: Management VLAN, Transparent, Access and Trunk mode |
| Environmental Specs | |
| Temperature | |
| Operating | -33° to 60° C (-27.4° to 140° F) |
| Storage | -40° to 70° C (-40° to 158° F) |
| Humidity | |
| Operating | Max 95% relative humidity (non-condensing) |
| Storage | Max 95% relative humidity (non-condensing) |
| Water & Dust Proof | IP65 |
| Regulatory | |
| Certifications | FCC Part 15 Rules for U-NII devices & IC - RSS-210 ETSI - EN 300 328, EN 301 489 1/17, EN 301 893 v1.5.1, EN 302 502, EN50385 |
| Physical Specs | |
| Dimensions (LxWxH) | |
| | Packaged: 385 x 315 x 110 mm |
| | Unpackaged: 197.5 x 192 x 100 mm |
| Weight (Integrated) | |
| | Packaged: 2.25 kg (4.96 lbs) |
| | Unpackaged: 0.69 kg (1.51 lbs) |
| Weight (Connectorized) | |
| | Packaged: 2.33 kg (5.14 lbs) |
| | Unpackaged: 0.77 kg (1.69 lbs) |
| Electrical | |
| Device Power Rating | 7 watts (typical), 13.8 watts (max) |
| Input Power | via PoE Power Injector, 48V-DC 0.40A (included in the package) |
| MTBF | >75,000 hours |
| Warranty | 1 year parts and labor |
| Package Contents | One CPE unit with 16dBi integrated antenna or two Type-N connectors, PoE Power Injector with power cord, Pole Mounting kit, Grounding kit, Connector Weather Proofing kit, printed Quick Installation guide |
| Accessories | Universal Mounting Bracket for wall mounting (Part # 77537) |
| Related Products | Tsunami™ MP-8100-BSU, Tsunami™ MP-8100-SUR/SUA, ServPak for enhanced support, ProximVision ES NMS |

¹ Available via Software upgrade

APPLICATIONS

- Wireless Internet Service Providers (WISP)**
 Excellent choice for large-scale wireless deployments for high performance and quick Rol
- Business and Residential Last-Mile Access**
 Competitive broadband service alternative to DSL or cable modems for residences and T1 or Ethernet for businesses