



### Rugged outdoor Point-to-Multipoint CPE operating in the 5.900 – 6.425 GHz band.

The Tsunami® Multipoint 826 CPE is an ideal solution for large-scale wireless deployments and provides an excellent value proposition to WISPs planning wireless broadband last-mile access deployments. Specifically designed to operate in the 6.4 GHz band, this product is designed to be fully compatible with the MP8620 series products.

The MP-826-CPE enables transparent roaming up to 295 km/h (185 mph) for use in mobility applications such as provision of Internet access or video surveillance on trains, trams and busses.

### 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-826-CPE 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 50 Mbps of throughput at the edge of the network.
- 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

### All-in-One CPE and Gateway

- Built-in network protocols for Bridging, Routing and Gateway functionality
- MAC, Ether type, IP address packet filtering provides granular network security
- Features highly-secure remote management via SSL, SSH and SNMPv3

### Easy to Install

- Comes ready to install with a complete "bring-your-own-pole" installation kit that includes basic pole mount and grounding kits, connector weather proofing kit and a power injector
- Non Line-of-Sight capability provided by Advanced Orthogonal Frequency Division Multiplexing (OFDM) along with 2x2 MIMO eases deployment in challenging areas
- Deployment tools include spectrum analyzer, antenna alignment and remote management configuration
- 15 dBi integrated antenna
- Connects to all existing Tsunami® 8260 series Base Stations

### 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.

### 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).

## Specifications

PRODUCT MODELS					
MP-826-CPE-50	Tsunami® MP 826 Customer Premise Equipment , 50 Mbps, MIMO 2x2, 15 dBi integrated antenna				
INTERFACES					
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100Mbps Ethernet with PoE in WORP® (Wireless Outdoor Router Protocol)				
RADIO & TX SPECS					
MIMO MODULATION OPERATING FREQUENCY CHANNEL SIZE DATA RATE TX POWER TX POWER CONTROL	2x2 MIMO OFDM with BPSK, QPSK, QAM16, QAM64 5.900 – 6.425 GHz (Subject to Country Regulations) 40 MHz, 20 MHz, 10 MHz, 5 MHz channel bandwidths MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps) with Dynamic Data Rate Selection Up to 25 dBm (dual chain) 0 – 20 dB, in 0.5 dB steps. Automatic TPC with configurable EIRP limit				
	Channel Size	40 MHZ	20 MHZ	10 MHZ	5 MHZ
RX SENSITIVITY (Per=10%)	MCS 0	-90dBm	-93dBm	-97dBm	-100dBm
	MCS 7	-70dBm	-73dBm	-75dBm	-78dBm
	MCS 8	-88dBm	-91dBm	-94dBm	-96dBm
	MCS 15	-66dBm	-69dBm	-71dBm	-74dBm
THROUGHPUT	Up to 50 Mbps				
OTHER	Dynamic Channel Selection (DCS) based on interference detection Automatic Transmit Power Control (ATPC) with EIRP limit support				
ANTENNA					
	Integrated 15 dBi dual Polarized (H+V) panel antenna				
MANAGEMENT					
REMOTE SNMP OTHER	Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow™ agent, SNMP and local time, Spectrum analyzer				
SECURITY					
ENCRYPTION AUTHENTICATION	AES-CCM 128 bits Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)				
QoS					
Asymmetric Bandwidth Control	UL and DL CIR Control "committed information rate" per service flow				
Packet Classification Capabilities	UL and DL MIR Control "maximum information rate" per service flow 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				
NETWORK					
MODES IP STACK GATEWAY FEATURES VLAN	Bridging, Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging				
POWER CONSUMPTION					
	6 Watt typical (15 Watt max)				
ENVIRONMENTAL SPECS					
	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - Water & Dust Proof	WIND LOADING	
	-40° to 55°C (-40° to 131° Fahrenheit)	-55° to 70°C (-67° to 158° Fahrenheit)	Max 100% relative humidity (non-condensing) - IP67	180 km/h (112 mph)	
PHYSICAL SPECS					
	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)	
	13.97 x 8.86 x 3.46 in (355 x 225 x 88 mm)	4.96 x 8.62 x 2.58 in (126 x 219 x 65.5 mm)	4.9 lbs (2.225 Kg)	2.1 lbs (0.950 kg)	
SAFETY STANDARDS					
	UL 60950-1/22				

PACKAGE CONTENTS	
	<ul style="list-style-type: none"><li>• One Tsunami® MP-826-CPE with integrated antenna</li><li>• One 20 W power injector and country specific power cord</li><li>• One basic Pole mounting kit</li><li>• One Connector weatherproofing kit (Includes all recommended weatherproofing material)</li><li>• One Grounding kit</li><li>• One Quick Installation Guide</li></ul>
MTBF & WARRANTY	
	MTBF over 200,000 hours & 2-year warranty with ServPak Extended Support available