

Tsunami™ MP-8160 Series

Wireless PtMP System Delivering 300Mbps Bandwidth Supporting 6.4 GHz Frequencies



Tsunami™ MP-8160-BSU

End-to-End Broadband Wireless Product Portfolio

- Tsunami™ MP-8100 Wireless Point-to-Multipoint System Delivering 300Mbps Bandwidth
- Tsunami™MP.11 Our best selling Point-to- Multipoint product line
- ORiNOCO[•]AP The industry's Highest performance 802.11a/b/g/n access points

Proxim Wireless is a global pioneer of end-toend 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 300Mbps Bandwidth in 5.900 – 6.425 GHz Frequency Range!

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-8160 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-8160 satisfies service providers and government organizations with requirements for fast and worry-free wireless connectivity.

With data rates of 300Mbps, the Tsunami[™] MP-8160 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-8160 becomes the first solution capable of powering IP video cameras or additional radios for even greater ease of deployment operating in extended frequencies from 5.900 – 6.425 GHz.

World-class Performance

- A fixed PtMP solution that can deliver 300Mbps 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 2x2 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

Provides flexible channel planning with planned support for 5.900 – 6.425 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-toclient communications and leverages MAC, Ether type and IP address packet filtering for granular network security

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Technical Specifications

PRODUCT MODELS		
MP-8160-BSU-WD	Tsunami MP-8160 Base Station Unit, 300Mbps, 5.900 – 6.425 GHz, Type-N Connectors - WD PoE	
INTERFACES		
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet	
	- Port #1 with PoE in & Data	
	- Port #2 with PoE out (802.3af pin out) & Data	
WIRELSS PROTOCOL	WORP (Wireless Outdoor Router Protocol)	
RADIO & TX SPECS		
MIMO	2x2 MIMO	
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, 5MHz	
DATA RATE	MCS 0 to 15 for High Throughput mode (6.5 – 300 Mbps)	
TX POWER	Up to 26dBm	
TX POWER CONTROL	In 0.5dB steps	
RF-PORT PROTECTION	Built-in ESD & Lightning/Surge protection in the radio	
ANTENNA	Model MP-8160-BSU includes two N-type Antennas Connectors	
MANAGEMENT		
LOCAL	RS-232 serial (RJ11 to DB-9 dongle provided)	
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		
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, Bridging, Routing, Syslog, SNTP	
QoS		
		Uplink and Downlink CIR Control "committed
	Asymmetric	information rate" per service flow
	Bandwidth Control	Uplink and Downlink MIR Control "maximum
		information rate" per service flow
		Uplink and Downlink CIR Control "committed
	Packet Classification	information rate" per service flow
	Capabilities	Uplink and Downlink MIR Control "maximum
	Capabilities	information rate" per service flow
	Colored Ree	
	Scheduling	Best Effort, Real Time Polling Services
VLAN	802.1Q: Management VLAN. Transparent, Access and T	runk mode
ENVIRONMENTAL SPECS		
TEMPERATURE		
OPERATING	-40 [°] to 60 [°] C (-40 [°] to 140 [°] F)	
STORAGE	-55° to 80°C (-67° to 176° F)	
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	
PACKAGE CONTENTS	One Tsunami [™] MP 8160-BSU with two N-type connectors	
	One power injector and country specific power cord	
	 One Wall/Pole mounting kit 	
 One Connector weatherproofing kit (Includes all recommended weatherproofing material) 		ommended weatherproofing material)
	 Two N-connector weather proofing caps installed at factory One Serial (RJ-11 to DB9) dongle 	
	One Grounding kit	
	One Gigabit PoE Surge Arrestor	
WARRANTY	 One Printed QIG 1-year on parts and labor; ServPak Extended Support a 	

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 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

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