



Simplifying Distributed Outdoor WiFi Hotspots

Proxim's Tsunami® XP-10100 is a single endpoint solution delivering high-performance outdoor WiFi. By combining a near-line-of-sight Point-to-Multipoint Subscriber Unit (SU) with an ORiNOCO® Access Point into a single unit, outdoor hotspots can enable rapid and reliable deployment. The Tsunami® XP-10100 is designed explicitly for the Wireless Internet Service Provider but is equally suited to delivering campus-wide connectivity.

World Class Performance

- Point-to-Multipoint system that delivers up to 866 Mbps data rate and covers distances up to 10 miles (16 km)
- 802.11b/g/n Access Point that delivers 300 Mbps data rate
- Dual IPv4 and IPv6 stack for evolution to tomorrow's networks
- Triple level login with monitoring, simplified or advanced web interface
- Built-in feature rich network protocols for bridging, routing and gateway functionality

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
- Multi-SSID with VLAN allocation, plus Ethernet port access and trunkmode

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
- Public HotSpot integration with Home Page redirect and Walled Garden
- HotSpot 2.0 to automatically discover and seamlessly authenticate to public Wi-Fi networks

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.

Rugged and Reliable

Designed for harsh environments, the Tsunami® XP-10100 is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high temperature extremes.

Product Line Compatibility

- Connects to all existing Tsunami® MP-8200, MP-820 and MP-830 products
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

Multi-Language Support

Web Interface available in English, French, Spanish and Chinese

Specifications

PRODUCT MODELS					PART NUMBERS				
XP-10150-BS1	Tsunami® XP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dB				el antenna with 901-00282 XP-10150-BS1-US				
	11n AP					901-00284 XP-10150-BS1-WD			
XP-10100-SUA	Tsunami® XP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors with 11n AP						901-00236 XP-10100-SUA-US 901-00237 XP-10100-SUA-WD		
XP-10150-SUR		150 Subscriber Unit	866 Mhns MIMO 2x	2 22 dRin	anel antenr		7 XP-10100-SUA-W 3 XP-10150-SUR-U		
7(10100 00)	Tsunami® XP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi par with 11n AP			arrer arreem		901-00285 XP-10150-SUR-WD			
INTERFACES									
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with Po				n & Data, P	ort #2 with PoE ou	ıt & Data)		
WIRELESS PROTOCOL	- Radio #1: WOR	- Radio #1: WORP® (Wireless Outdoor Router Protocol), - Radio #2: Wi-							
RADIO & TX SPECS									
	Radio #1			Radio #	Radio #2				
FREQUENCY	4.900 – 5.925 GHz (Subject to Country Regulations)				2.400 – 2.484 (Subject to Country Regulations)				
					802.	11n	802.11g	802.11b	
MIMO	2×2:2		2x2:2		N/A	N/A			
MODULATION	OFDM			OFDM OFDM DSSS			DSSS		
	BPSK - QAM256			BPSK - QAM64		BPSK-QAM64	DBPSK-CCK		
DATA RATE	Up to 866 Mbps			Up to 300 Mbps		Up to 54 Mbps	Up to 11 Mbps		
	80 MHz	40 MHz	20 MHz	40 1	MHz	20 MHz	20 MHz	20 MHz	
TX POWER (dual RF)	MCS0: 28	MCS0: 28	MCS0: 29	MCS0/8	26	MCS0/8: 26	6 Mbps: 26	1 Mbps: 26	
	MCS9: 21	MCS9: 22	MCS9: 25	MCS7/15: 20 MCS7/		MCS7/15: 21	54 Mbps: 22	11 Mbps: 26	
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0/8: -88/90 MCS0		MCS0/8: -92/91	6 Mbps: -93	1 Mbps: -93	
	MCS9: -68	MCS9: -71	MCS8: -74	MCS7/15	: -72/69	MCS7/15: -74/72	54 Mbps: -77	11 Mbps: -89	
OTHER	Dynamic Channel Selection (DCS) based on interference detection Dynamic Frequency Selection (DFS) based on radar signature				Automati	c Channel Selection	on (ACS)		
	Automatic Trans	smit Power Control (ATPC) with EIRP limit	support					
ANTENNA									
	Radio #1				Radio #2				
XP-10100-SUA	Two N-type Connectors with built-in Surge Protection				Two N-type Connectors with built-in Surge Protection				
XP-10150-BS1/SUR	Integrated 2x2 I	Integrated 2x2 MIMO 22 dBi Dual Polarized 1 foot Antenr			Two N-type Connectors with built-in Surge Protection				
					,				

	Radio #1		Radio #2			
ENCRYPTION	AES 128		802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP			
AUTHENTICATION	Internal MAC Address Control Lis	st, Radius based Authentication	Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open			
302.1X SUPPORT			PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA			
QoS						
	Radio #1		Radio #2			
	Asymmetric UL/DL committed ar per service flow with Best Effort		802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues			
Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID, I addresses, IP protocol, and Ether		802.1p priority, IPTOS			
THROUGHPUT						
	Radio #1 (RFC 2544)		Radio #2			
	Up to 672 Mbps @ 80 MHz		Up to 150 Mbps			
MANAGEMENT						
REMOTE SNMP OTHER Multi-Language Support	Telnet and SSH, Web GUI and SS SNMP v1-v2c-v3, RFC-1213, RFC- Syslog, sFlow™ agent, SNTP and Web Interface available in Englis	1215, RFC-2790, RFC-2571, RFC-34 local time, Spectrum analyzer	12, RFC-3414, Private MIB			
SYNCHRONIZATION						
	Pass-trough SyncE and Precision	Time Protocol (IEEE 1588v2) Ether	rnet Synchronization			
NETWORK						
MODES	Radio #1		Radio #2			
	Bridging, Routing (RIP v2 and IP t	unneling)	Access Point			
P STACK GATEWAY FEATURES VLAN	IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with S 802.1Q: Management VLAN. Trar	td ALGs nsparent, Access, Trunk and Mixed	mode. QinQ double tagging			
POWER	INI	PUT	OL	JTPUT		
	36 to 57 VDC via Ethernet port1 (12 VDC via Access port Power should not be provided sin		48 to 57 VDC – 25 Watt max on Ethernet port2 (PoE – software controlled) 12 VDC on Access port			
POWER CONSUMPTION						
	16.5 Watt typical, 22.5 Watt maxii	mum				
NVIRONMENTAL 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 (125 mph)		
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED		
(P-10100-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)	10.91 lbs (4.95 kg)	5.07 lbs (2.3 kg)		
(P-10150-BS1/SUR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	11.90 lbs (5.4 kg)	6.17 lbs (2.8 kg)		
AFETY STANDARDS						
	UL 60950, CAN/CSA-C22.2 No.	60950, IEC 60950, EN 60950 (pa	rt -1 and -22)			
CERTIFICATIONS						
	USA: FCC 90Y + 15C + 15E (UNII / Canada: IC RSS 102 + RSS 111 + R: Europe: RED EN 301 489-1 + EN 3 Railway: EN 50155 + EN 50121 + E	SS 247 301-489-17 + EN 300 328 + EN 301	893 + EN 302 502			

PACKAGE CONTENTS	
	 One Tsunami® XP-10100-SUA unit with four N-type surge protected connectors Or One Tsunami® XP-10150-BS1/SUR unit with integrated 22 dBi panel antenna plus two N-type surge protected connectors One power injector and country specific power cord One Connector weatherproofing kit (Includes all recommended weatherproofing material) One Wall / Pole mounting kit One Grounding kit Two 2.4 GHz, 5 dBi omni antennas One Antenna alignment (RJ11) dongle One Quick Installation Guide
MTBF & WARRANTY	
	>250 000 hours, 2-year warranty; ServPak Extended Support available.

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