

Tsunami® XP-10100 Series

Point-to-Multipoint Wireless Solution with built in Access Point



Proxim introduces the Tsunami® Cross Point XP-10100, the first wireless solution that combines 5 GHz Point to Multipoint last mile access with 2.4 GHz Wi-Fi Access Point

Proxim Wireless is a leader and an early innovator in wireless technology providing high-speed, long-range and mobile broadband wireless solutions. Proxim's Tsunami® XP-10100, is a very high throughput, high power, extremely reliable and cost-effective, near-line-of-sight point-to-multipoint (PMP) wireless solution with a built in 802.11n access point.

The Tsunami® XP-10100 supports the following features specifically for last miles access, video surveillance or mobility applications that need very high-speed broadband wireless access



Proxim WORP®, a highly evolved QoS platform tailored to deliver voice, video and data applications



Proxim ClearConnect™, a suite of over 13 different techniques all working together to ensure robust and reliable radio communications in noisy deployments



Proxim FastConnect™, a High Speed Mobility solution for Buses, Trains, Metros and Ferries



IEEE 802.11b/g/n standard with Wi-Fi Alliance improvement

World Class Performance

- Point-to-Point system that delivers 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
- High Speed Mobility up to 185 mph (295 km/h)

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 trunk mode

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

Product Line Compatibility

- Connects to all existing Tsunami® MP-10100, MP-8200 and MP-820 base stations
- Fully integrates within ProximVision® Advanced Cloud Based Carrier Management System and Controller

Specifications: Tsunami® XP-10100 Series

PRODUCT MODELS						PART NUMBERS			
XP-10100-SUA	Tsunami® XP 10100 Subscriber Unit, 867 Mbps, MIMO 2x2, Type-N Connectors with 11n AP			901-00236 XP-10100-SUA-US		901-00237 XP-10100-SUA-WD			
INTERFACES	1301101111 AT 10100 300301001 0111, 007 MUDS, MINIO 2X2, Type-N Conflectors Will TIN AP			901-00230 XF-10100-30A-03		301-00237 XI-10100-30A-WD			
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/100	OMbps Ethernet							
	- Port #1 with PoE in & Data								
WIRELESS PROTOCOL	- Radio #1: WORP®	- Radio #2: Wi-Fi (802.11b/g/n) Radio #1							
RADIO		Radio #2							
FREQUENCY	5.150 – 5.925 GHz (Subject to Country Regulations)			2.400 – 2.484 (Subject to Country Regulations)					
				802.11n 802.11g		802.11b			
MIMO MODULATION	2x2:2 OFDM			2x2:2 N/A OFDM OFDM		N/A DSSS			
MODULATION	BPSK - QAM256			BPSK - QAM64		BPSK-QAM64	DBPSK-CCK		
DATA RATE	Up to 866 Mbps			Up to 300Mbps Up to 54Mbps Up to		Up to 11Mbps			
	80 MHz	40 MHz	20 MHz	40 MHz	20 MHz	20 MHz	20 MHz		
TX POWER	MCS0: 28	MCS0: 28	MCS0: 29	MCS0/8: 26	MCS0/8: 26	6 Mbps: 26	1 Mbps: 26		
	MCS9: 21	MCS9: 22	MCS8: 25	MCS7/15: 20	MCS7/15: 21	54 Mbps: 22	11 Mbps: 26		
RX SENSITIVITY (BER=10-6)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0/8: -88/90	MCS0/8: -92/91	6 Mbps: -93	1 Mbps: -93		
(BER-10°)	MCS9: -68	MCS9: -71	MCS8: -74	MCS7/15: -72/69	MCS7/15: -74/72	54 Mbps: -77	11 Mbps: -89		
OTHER	Dynamic Channel S Dynamic Freque		Automatic Channe	selection (ACS)					
- · · · - · ·	Automatic Transm								
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					
SECURITY	Radio #1			Radio #2					
ENCRYPTION	AES 128 Internal MAC Address Control List, Radius based Authentication			802.11i/WPA2 Wireless Security with AES-128, TKIP or WEP Enterprise (Radius based) or Pre-Shared Key PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA					
AUTHENTICATION									
802.1X SUPPORT									
QoS	Radio #1			Radio #2					
	Asymmetric UL/DL committed and maximum information rate per service flow with Best Effort and Real Time Polling Services			802.11e/WMM Enhanced Distributed Channel Access					
Packet Classification Capabilities	and Real Time Polling Services 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			802.1p priority, IPTOS					
THROUGHPUT	Radio #1			Radio #2					
	Up to 633 Mbps @ 80 MHz			Up to 150 Mbps					
MANAGEMENT									
REMOTE	Telnet and SSH, Web GUI and SSL	, TFTP, SNMPv3							
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-12								
OTHER	Syslog, sFlow™ agent, SNTP and lo								
SYNCHRONIZATION									
	Pass-through IEEE 1588v2 Ether								
NETWORK		Radio #2							
MODES	Bridging, Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode.			Access Point					
IP STACK GATEWAY FEATURES									
VLAN									
		QinQ double tagging							
POWER	INPUT 36 to 57 VDC via Ethernet port1 (PoE) 12 VDC via Access port			OUTPUT					
				48 to 57 VDC – 25 Watt max on Ethernet port2 (PoE – software controlled) 12 VDC on Access port					
POWER CONSUMPTION	Power should not be provided s	inuitaneously on both ports.							
FOWER CONSUMPTION	23 Watt typical								
ENVIRONMENTAL SPECS	OPERATING TEMP STORAGE TEMP		HUMIDITY - IP RATING WIND LOADING						
LIAVIKONWIENIAL SPECS									
PHYSICAL SPECS	-40° to 60°C (-40° to 140° Fahre PACKAGED DIMENSIONS	UNPACKAGED I	68° to 158° Fahrenheit)	100% relative humidity - IP67 PACKAGED WEIGHT		180 km/h (112.5 mph)			
						UNPACKAGED WEIGHT			
XP-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)			
SAFETY STANDARDS	TH COOPE CANICCA COOPE	600E0 IEC 600E0 EN 600E	and 1 and 22)						
	UL 60950, CAN/CSA-C22.2 No.	ьоэьо, IEC 60950, EN 60950 (р	part -1 and -22)						
PACKAGE CONTENTS									
	 One Tsunami® XP-10100-SUA unit with four N-type surge protected connectors One power injector and country specific power cord One Connector weatherproofing kit (Includes all recommended weatherproofing 			 One Grounding kit Two 2.4 GHz, 5 dBi omni antennas One Antenna alignment (RJ11) dongle 					
	material)		One Quick Installation Guide						
	One Wall / Pole mounting k	ıt							
MTBF and WARRANTY									
	>250 000 hours, 2-year warrant	y; ServPak Extended Support ava	ailable.						

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