Data Sheet

Crosspoint 10100 Series

Product Snapshot

The Crosspoint 10100 series combines a Multipoint client and WiFi solution to enable the installation of WiFi networks beyond the reach of wires.

Combining a near-line-of-sight Point-to-Multipoint Client and an ORiNOCO® Access Point into a single unit facilitates swift WiFi deployments for remote industrial complexes and wireless hotspots.

- Point-to-Multipoint client that covers distances up to 10 miles (16 km)
- 802.1 1b/g/n Access Point that delivers 300 Mbps data rate
- Features dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Public HotSpot integration with Home Page redirect and Walled Garden
- HotSpot 2.0 to automatically discover and seamlessly authenticates to public Wi-Fi network

Powered by WORP®

Proxim WORP enables the most efficient wireless broadband access possible in a packet-based network. Advanced QoS controls, committed interface rates, latency controls, IGMP snooping, and native multicast support allow granular service level management and the best video performance available in this product class.

Easy to Deploy

The AP-9200R is a FIT APTM compliant access point that can operate as a standalone AP or in a centrally controlled distributed wireless network using the ProximVision® Advanced hybrid controller.

Secure

The Crosspoint 10100 provides enterprise-class security that features:

- 802.1 1i based security with AES 128 encryption and 802.1 x Radius based authentication
- Rogue AP scanning and detection
- Secure management (SSL/TLS1.2, SSH and SNMPv3).

Advanced Interference Management

Proxim ClearConnect™ combines multiple dynamic technologies and delivers the best interference management solution available.

Rugged Reliability

IP67 rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

Specifications

PRODUCT MODELS

XP-10150-BS1-US	Tsunami® XP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP	PN: 901-00282
XP-10100-SUA-US	Tsunami® XP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors with 11n AP	PN: 901-00236
XP-10150-SUR-US	Tsunami® XP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP	PN: 901-00283

INTERFACES

WIRED ETHERNET WIRELESS PROTOCOL	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data) - Radio #1: WORP® (Wireless Outdoor Router Protocol), - Radio #2: Wi-Fi (802.11b/g/n)

RADIO & TX SPECS

	Radio #1			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	2x2:2			2x2:2	N/A	N/A	
MODULATION	OFDM BPSK - QAM256			OFDM BPSK - QAM64	OFDM BPSK-QAM64	DSSS 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 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	MCS7/15: 21	54 Mbps: 22	11 Mbps: 26
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0/8: -88/90	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 Automatic Transmit Power Control (ATPC) with EIRP limit support			Automatic Channel Selection (ACS)			

SECURITY

	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 List, Radius based Authentication	Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open
802.1X SUPPORT		PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA

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, 4 priority queues
Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType	802.1p priority, IPTOS

THROUGHPUT		
	Radio #1 (RFC 2544)	**Radio #2**
	Up to 672 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-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB
OTHER	Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer
Multi-Language Support	Web Interface available in English, French, Spanish and Chinese

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 MIMO 22 dBi Dual Polarized 1 foot Antenna	Two N-type Connectors with built-in Surge Protection

SYNCHRONIZATION	
	Pass-trough SyncE and Precision Time Protocol (IEEE 1588v2) Ethernet Synchronization

NETWORK		
MODES	**Radio #1**	**Radio #2**
	Bridging, Routing (RIP v2 and IP tunneling)	Access Point
IP STACK GATEWAY FEATURES VLAN	IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging	
POWER	**INPUT**	**OUTPUT**
	36 to 57 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports	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 maximum	

ENVIRONMENTAL 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)**
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)
XP-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)

SAFETY STANDARDS

IEC 62368-1:2016 & 60950-22:2016
UL 62368-1 2nd edition & 60950-22 2nd edition
CAN/CSA C22.2 No 62368-1:14 & No 60950-22:17
EN 62368-1:2014 + A11:2017 & 60950-22:2017

CERTIFICATIONS

USA: FCC 90Y + 15C + 15E (UNII 15.247)
Canada: IC RSS 102 + RSS 111 + RSS 247
Europe: RED EN 301 489-1 + EN 301-489-17 + EN 300 328 + EN 301 893 + EN 302 502
Railway: EN 50155 + EN 50121 + EN 61373

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.

ABOUT PROXIM WIRELESS:

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications. Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.

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