



ORiNOCO[®] AP- 9100R, a Dual Radio 802.11ac Access Point Designed for Outdoor Use

ORiNOCO[®] AP-9100R takes advantage of Proxim's expertise in both Wi-Fi and outdoor systems to deliver a dual radio 802.11ac Access Point ready for outdoor use.

ORiNOCO® AP-9100R features MIMO 2x2:2 performance with an aggregate data rate of 1166 Mbps and unparalleled flexibility. In addition, it benefits from the robust and IP67 weatherproofed design of Proxim Tsunami® products with unique features such as dual gigabit Ethernet ports with controllable PoE in and out.

Organizations of all sizes encompassing Carriers, Small and Medium Enterprises, Health Care, Governments and Public safety departments, can achieve higher performance than their existing wired and wireless LANs thanks to 802.11ac Advantage: significantly higher throughput and longer range.

World Class Performance

ORiNOCO® AP-9100R products enable enterprises of all size to extend their LAN outdoor while providing equivalent performance to their existing Ethernet networks.

- High throughput with dual radio rates of 866 + 300 Mbps
- High power radio delivering up to 28 dBm (2 RF) at 5 GHz
- Twice the throughput of existing typical WLANs
- High reliability for quad play applications
- Dual IPv4 and IPv6 stacks for transparent evolution to tomorrow networks.

Highly Secure

ORiNOCO® AP-9100R provides enterprise class security to ensure full protection of sensitive information

- 802.11i based security with AES 128 encryption and 802.1x Radius based authentication
- Rogue scan listing surrounding devices
- Secure management (SSL/TLS1.2, SSH and SNMPv3) preventing unwanted configuration changes
- IP67 rated metal enclosure and surged protect ethernet and antenna ports

Advanced Features

ORiNOCO® AP-9100R is packed with features.

- Dual Gigabit Ethernet ports with PoE out to power other devices such as surveillance cameras or additional radios
- Multi-SSID with VLAN allocation, plus Ethernet port access and trunk mode
- 802.11e QoS
- Public HotSpot integration with Home Page redirect and Walled Garden.
- HotSpot 2.0 to automatically discover and seamlessly authenticate to public Wi-Fi networks

Unparalleled Flexibility and Convenience with Centralized Management

ProximVision® Advanced supports ORiNOCO® devices giving network architects unparalleled flexibility and control of the units.

- Rapid Network Deployment: automates configuration processes for faster, more efficient deployment of Proxim Wireless networks
- Advanced Configuration Capabilities: gives network managers an option for exhaustive device configuration with a software-based tool
- Greater Ease of Use and Upgradability: supports a greater number of devices than competitively priced solutions and provides the simplest path to configuration and upgrade

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.

Standalone and Controller-Ready

ORiNOCO® AP-9100R offers the advantages of both architectures:

- Standalone operation
- Controller based leveraging ProximVision® Advanced

Specifications

PRODUCT MODELS										
AP-9100R	ORiNOCO®	AP-9100R, M	IMO 2x2, 802	.11 ac + b/g/n d	dual radio ou	tdoor Access I	Point			
INTERFACES										
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet - Port #1 with PoE in & Data - Port #2 with PoE out & Data									
WIRELESS PROTOCOL	Radio #1: 802.11a/n/ac Radio #2: 802.11b/g/n									
RADIO & TX SPECS										
			Rad	io #1			Radio #2			
FREQUENCY	5.150 – 5.925 GHz (Subject to Country Regulations)					2.400 – 2.484 (Subject to Country Regulations)				
	802.11ac			802.11n		802.11a	802.11n		802.11g	802.11b
MIMO		2x2:2		2x	2:2	2x2:2	2x2:2		N/A	N/A
MODULATION	OFDM BPSK-QAM256		OFDM BPSK-QAM64		OFDM BPSK- QAM64	OFDM BPSK - QAM64		OFDM BPSK- QAM64	DSSS DBPSK- CCK	
DATA RATE				Upto 300 Mbps						
	Upto 866 Mbps			opto 300 Mbbs		Upto 54Mbps	opto soomphs		Upto 54Mbps	Upto 11Mbps
	80 MHz	40 MHz	20 MHz	40 MHz	20 MHz	20 MHz	40 MHz	20 MHz	20 MHz	20 MHz
TX POWER	MCS0: 28	MCS0: 28	MCS0: 29	MCS0: 28	MCS0: 29	6 Mbps: 29	MCS0/8: 26	MCS0/8: 26	6 Mbps: 26	1 Mbps: 26
	MCS9: 21	MCS9: 22	MCS8: 25	MCS7: 22	MCS7: 25	54 Mbps: 27	MCS7/15: 20	MCS7/15: 21	54 Mbps: 22	11 Mbps 26
RX SENSITIVITY (Per=10 ⁻⁶)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0: -93	MCS0: -94	6 Mbps: -94	MCS0/8: -88/90	MCS0/8: -92/91	6 Mbps: -93	1 Mbps: -93
	MCS9: -68	MCS9: -71	MCS8: - 74	MCS7: -75	MCS7: -77	54 Mbps: -80	MCS7/15: -72/69	MCS7/15: -74/72	54 Mbps: -81	11 Mbps -89
OTHER		el Selection (auency Sele	ACS) ction (DFS) ba	ased on radar	signature	Auto Channel Selection (ACS)				
ANTENNA										
	Radio #1 Radio #2									
	Two N-type Connectors with built-in Surge Protection				Two N-type Connectors with built-in Surge Protection Two 5 dBi, omni-directional antenna provided					
SECURITY										
AUTHENTICATION	Enterprise/8	02.1x, Persor	al/ PSK (Pre S	ihared Key) or	Open plus Ir	nternal MAC A	ddress Contro	ol List		
802.1X SUPPORT	Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open plus Internal MAC Address Control List PEAP, LEAP, EAP-TLS, EAP-TTLS, EAP-SIM, EAP-AKA, EAP-FAST									
ENCRYPTION	802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP									
WIRELESS										
AP-AP COMMUNICATION	WDS with STP loop avoidance									
RF ENVIRONMENT	Spectrum analyzer									
OTHER	802.11h Spectrum and Transmit Power Management Extensions									
QoS				-						
	802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues									
PACKET CLASSIFICATION	802.1p prior	ity, IPTOS								
HOTSPOT	Hama D- :	Dodinant	confirmentel			Inlad Carde	المائين طغانين		in at 2.0	
	Home Page	Redirect with	i configurable	UKL and Don	nain based W	/alled Garden	with wild card	support Hots	pot 2.0	
THROUGHPUT										
	Radio #1					Radio #2				
	Up to 450 M	lbps				Up to 150 M	bps			

MANAGEMENT									
REMOTE SNMP OTHER	Telnet and SSH, Web GUI and SSL/TLS1.2, TFTP, SNMPv3 SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB 802.11d/802.11h Spectrum and Regulatory Features								
POWER	INP	UT	OUTPUT						
	36 to 57 VDC via Ethernet port1 (Power over Ethernet)	48 to 57 VDC - 25 Watt on Ethernet port2 (PoE – software controlled)						
	12 VDC via Access port		12 VDC on Access port						
	Power should not be provided simultaneously on both ports.								
NETWORK									
IP STACK VLAN	IPv4 and IPv6 simultaneously 802.1Q: Management VLAN. Tran	sparent, Access and Trunk mode.	Radius based VLAN assignment						
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	180 km/h (112.5 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)					
SAFETY 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 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									
	 Two 2.4 GHz, 5 dBi omni ant Two 5 GHz, 7 dBi omni anter 	nnas ofing kit (Includes all recommende ntry specific power cord 1) dongle							
MTBF & WARRANTY	1								
	>250 000 hours, 2-year warranty	>250 000 hours, 2-year warranty, ServPak Extended Support available.							

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