PROXIM ®
wireless ™
Performance Matters. Proxim Delivers.™

ORiNOCO® AP-9100

Enterprise Class 802.11ac Access Point

Proxim introduces the all new ORiNOCO® AP-9100, combining compact design with breakthrough speeds of 1.3 Gbps and incredible flexibility

ORiNOCO® AP-9100 is a high performance, very reliable, 802.11ac access point with up to 24.8 dBm triple chain transmit power. It features incredible MIMO 3x3:3 performance of 1750 Mbps aggregate data rate and unparalleled flexibility. In addition, Proxim's new access point takes advantage of the ergonomics and cutting edge design of its predecessor, simplifying installation and migration. Organizations of all sizes encompassing Small and Medium Enterprises, Health Care, Governments and Public safety departments, can achieve higher performance than their existing wired and wireless LANs while avoiding High OPEX and CAPEX, deployment challenges and additional network planning. The primary advantages of 802.11ac compliant products are significantly higher throughput and longer range.

High Performance

ORiNOCO® AP-9100 products enable enterprises of all size to finally unwire the wired LAN by providing greater performance than existing Ethernet networks
- High throughput with dual radio data rates of 450 + 1300 Mbps
- No need to run new cable to add stations to a LAN
- Three times the throughput of existing typical WLANs
- High reliability for quad play applications

Highly Secure

ORiNOCO® AP-9100 provide 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, SSH and SNMPv3) preventing unwanted configuration changes
- Kensington lock protecting against product theft
- Fire resistant enclosure matching plenum installation requirement

Unparalleled Flexibility and Convenience with Centralized Management

ProximVision Network Management System supports ORiNOCO® AP-9100 giving network architects unparalleled flexibility and control of the units
- Rapid Network Deployment: ProximVision NMS automates configuration processes for faster, more efficient deployment of Proxim Wireless networks
- Mobile Configuration Capabilities: ProximVision NMS gives network managers a mobile option for exhaustive device configuration with a software-based tool
- Greater Ease of Use and Upgradability: ProximVision NMS can support a greater number of APs than competitively priced solutions and provides the simplest path to configuration and upgrade

Standalone and Controller-Ready

ORiNOCO®AP-9100 offers advantage of both architectures
- Standalone operation, leveraging PVNMS supervision.
- If controller architecture is desired, AP-9100 is designed to integrate into the Proxim Controller to be released late this year

Cost Effective

ORiNOCO® AP-9100 solution drastically reduces the cost of WLAN deployments
- With twice the range and added throughput, AP-9100 setups now cost only a fraction of today's 802.11n networks when deployed to achieve the same capacity
- AP-9100 simplifies installation by ensuring enhanced signal strength to hard-to-reach clients
- AP-9100 utilize a very convenient mounting hardware enabling simple swap out of old Proxim AP's and making upgrades a snap

PRODUCT MODELS

AP-9100	ORiNOCO AP-9100, MIMO 3x3, 802.11 ac + b/g/n dual radio Access Point

INTERFACES

WIRED ETHERNET	One auto MDI-X RJ45 10/100/1000Mbps Ethernet
WIRELESS PROTOCOL	Radio #1: 802.11a/n/ac
	Radio #2: 802.11b/g/n

RADIO

	Radio #1						Radio #2		

FREQUENCY	5.150 – 5.350, 5.470 - 5.850 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	3x3			3x3		N/A	3x3	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 1300Mbps			Upto 450Mbps		Upto 54Mbps	Upto 450Mbps	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: 20	MCS0: 20	MCS0: 20	MCS0: 20	MCS0: 20	6 Mbps: 20	MCS0: 17	MCS0: 18	6 Mbps: 19	1 Mbps: 19
	MCS9: 15	MCS9: 15	MCS8: 17	MCS7: 19	MCS7: 19	54 Mbps: 19	MCS7: 14	MCS7: 15	54 Mbps: 16	11 Mbps: 19
RX SENSITIVITY (BER=10^{-6})	MCS0: -87	MCS0: -90	MCS0: -92	MCS0: -91	MCS0: -92	6 Mbps: -92	MCS0: -88	MCS0: -91	6 Mbps: -90	1 Mbps: -95
	MCS9: -60	MCS9: -63	MCS8: -67	MCS7: -71	MCS7: -73	54 Mbps: -75	MCS7: -72	MCS7: -73	54 Mbps: -76	11 Mbps: -90

ANTENNA

Radio #1	Radio #2
Three integrated PIFA antennas: 5 dBi	Three integrated PIFA antennas: 4.5 dBi

MANAGEMENT

REMOTE	Telnet and SSH, Web GUI and SSL, TFTP, SNMP v1, v2c and v3
OTHER	Syslog, and SNTP

NETWORK

DHCP	Client and Server
VLAN	802.1Q: Management VLAN. Transparent, Access and Trunk mode. Radius based VLAN assignment

WIRELESS

AP-AP COMMUNICATION	WDS with STP loop avoidance
RF ENVIRONMENT	Rogue Scan
OTHER	802.11h Spectrum and Transmit Power Management Extensions
	802.11k Radio Resource Measurement

QOS

802.11e Enhanced Distributed Channel Access

SECURITY

AUTHENTICATION	Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open plus Internal MAC Address Control List
802.1X SUPPORT	PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA
ENCRYPTION	802.11i Wireless Security with AES-128, TKIP or WEP

THROUGHPUT

Radio #1	Radio #2
Upto 650 Mbps	Upto 225 Mbps

POWER

POWER OVER ETHERNET	802.3af/at compliant
POWER ADAPTER	110/220 V AC - 50/60 Hz (input), 12 V DC - 1.25 A (output)
CONSUMPTION	<12.9 Watt typical

ENVIRONMENTAL SPECS

OPERATING TEMPERATURE	0º to 40ºC (32º to 104º Fahrenheit)
STORAGE TEMPERATURE	-20º to 60ºC (-4º to 140º Fahrenheit)
HUMIDITY - IP RATING	5 - 90% relative humidity

SURGE PROTECTION

ELECTRO STATIC DISCHARGE	Conductive : 4 kV	Air : 8 kV
SURGE CAPACITY	Line to Line : 0.5 kV	Line to Earth 1 kV (EN 61000-4-5)

PHYSICAL SPECS

	DIMENSIONS	WEIGHT
PACKAGED	13.2 x 8.45 x 2.16 in. (335 x 215 x 55 mm)	1.75 lbs (790 g)
UNPACKAGED	6.69 x 6.69 x 1.74 in. (170 x 170 x 44.1 mm)	0.75 lbs (340 g)

SAFETY STANDARDS

UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)
Plenum rated (ATX 200 material)

PACKAGE CONTENTS

- One ORiNOCO® AP-9100
- One power adapter
- One Wall / Ceiling mounting kit
- One Quick Installation Guide

MTBF

Over 500k hours

WARRANTY

1-year on parts and labor; ServPak Extended Support available