

## 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 MIMO 3x3:3 performance of 1750 Mbps aggregate data rate and unparalleled flexibility. In addition, Proxim's 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 unwire the wired LAN by providing greater performance than existing Ethernet networks

- High throughput with dual radio data rates of 1300 + 450 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 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, 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® Advanced supports ORiNOCO® AP-9100 giving network architects unparalleled flexibility and control of the units

- Rapid Network Deployment: ProximVision® Advanced automates configuration processes for faster, more efficient deployment of Proxim Wireless networks
- Advanced Configuration Capabilities: ProximVision® Advanced gives network managers an option for exhaustive device configuration with a software-based tool
- Greater Ease of Use and Upgradability: ProximVision® Advanced can support a greater number of APs 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-9100 offers advantage of both architectures

- Standalone operation, leveraging ProximVision® Advanced supervision.
- If controller architecture is desired, AP-9100 is designed to integrate into the Proxim Controller to be released later this year

### Cost Effective

ORiNOCO® AP-9100 solution drastically reduces the cost of WLAN deployments

- AP-9100 simplifies installation by ensuring enhanced signal strength to hard-to-reach clients, thanks to its three RF chain
- AP-9100 utilize a very convenient mounting hardware enabling simple swap out of old Proxim AP's and making upgrades a snap

## Specifications

PRODUCT MODELS										
ORINOCO AP-9100	ORINOCO AP-9100, MIMO 3x3, 802.11 ac + b/g/n dual radio Access Point									
INTERFACES										
WIRED ETHERNET WIRELESS PROTOCOL	One auto MDI-X RJ45 10/100/1000Mbps Ethernet Radio #1: 802.11a/n/ac Radio #2: 802.11b/g/n									
RADIO & TX SPECS										
	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 (Per=10 <sup>-6</sup> )	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				
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									
WIRELESS										
AP-AP COMMUNICATION	WDS with STP loop avoidance									
RF ENVIRONMENT	Rogue Scan									
OTHER	802.11h Spectrum and Transmit Power Management Extensions									
QoS										
	802.11e Enhanced Distributed Channel Access									
THROUGHPUT										
	Radio #1					Radio #2				
	Upto 670 Mbps					Upto 310Mbps				
MANAGEMENT										
REMOTE OTHER	Telnet and SSH, Web GUI and SSL, TFTP, SNMP v1, v2c and v3 Syslog, and Sntp									
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									
NETWORK										
DHCP VLAN	Client and Server 802.1Q: Management VLAN. Transparent, Access and Trunk mode.									
ENVIRONMENTAL SPECS										
	OPERATING TEMPERATURE			STORAGE TEMPERATURE			HUMIDITY - IP RATING			
	0° to 40°C (32° to 104° Fahrenheit)			-20° to 60°C (-4° to 140° Fahrenheit)			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 PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
	13.2 x 8.45 x 2.16 in. (335 x 215 x 55 mm)	6.69 x 6.69 x 1.74 in. (170 x 170 x 44.1 mm)	1.75 lbs (790 g)	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)			
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				
	<ul style="list-style-type: none"> <li>• One ORiNOCO® AP-9100 unit</li> <li>• One power adapter</li> <li>• One Wall/Ceiling mounting kit</li> <li>• One Quick Installation Guide</li> </ul>			
MTBF & WARRANTY				
	Over 500k hours & 1-year on parts and labor; ServPak Extended Support available			