



AP-8000 802.11n Access Point

**New Line of Access Points for the Industry's Highest Performance,
Most Cost-Effective and Easiest to Use 802.11n Networks**

Proxim Wireless is increasing the performance and reducing the complexity of 802.11n networks with the introduction of its ORiNOCO 802.11n product line. Proxim's ORiNOCO AP-8000 and ORiNOCO AP-800 802.11n access points provide the industry's highest performance, easiest to use, and most cost-effective 802.11n networks for enterprises of all sizes. With the ORiNOCO 802.11n product family, Proxim has designed the first complete 802.11n solution that overcomes the deployment challenges faced by competing products. The result is an 802.11n solution that enables customers to quickly, easily and cost-effectively deploy the highest-performance 802.11n network available.

ORiNOCO Wireless LAN

Proxim Wireless' industry-leading ORiNOCO® wireless LAN products deliver standards-based, enterprise-class 802.11 a/b/g/n networking functionality and the industry's best performance, security and return on investment (ROI).

This portfolio includes:

- **ORiNOCO Client Products –**
Ultimate performance and flexibility for connecting to any Wi-Fi® network
- **ORiNOCO Access Points –**
Enterprise-class 802.11 a/b/g/n APs with Quality of Service (QoS) support and mesh capabilities
- **ORiNOCO Wi-Fi Mesh –**
Outdoor and indoor Wi-Fi mesh for service providers and metro area WLANs
- **ProximVision ES Wireless Network Management System –**
Centralized wireless network management software for rapid network deployment, advanced security, mobility and system-wide visibility.

Proxim Wireless is a global provider of end-to-end broadband wireless systems that deliver the quadruple play. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

Higher Performance than Existing Wired LANs/WLANs

Proxim's ORiNOCO 802.11n products enable enterprises of all size to finally unwire the wired LAN by providing greater performance than existing Ethernet networks.

- Over 100 Mbps throughput for greater performance than wired LANs
- 5x the throughput of existing WLANs
- High reliability for quad play applications
- The only solution to provide dual 2.4 Ghz and dual 5Ghz operation
- The first solution to provide support for the entire 5 Ghz spectrum worldwide, providing the frequencies needed to resolve interference issues

Greatest Ease of Use

Superior engineering make Proxim's ORiNOCO 802.11n products the first to overcome the deployment challenges faced by competing products.

- Backward compatible with all existing Wi-Fi 802.11a/b/g and 802.11b/g clients
- When deployed, existing access points can simply be swapped out and replaced without running additional ethernet cables that are required by competing 802.11n access points
- Proxim's 802.11n solution provides 2 times the range of standard 802.11a/b/g access points to ensure optimal coverage and enhanced signal strength to all wireless clients in the office so users can truly become untethered

Industry-Leading ROI

Proxim's 802.11n solution drastically reduces the cost of 802.11n deployments by eliminating the need for forklift upgrades, additional wiring, or additional network planning.

- ORiNOCO 802.11n access points are the only APs on the market that are completely 802.3af compliant in all configurations, which avoids the cost of additional wiring as required by 802.3at compliant APs
- Though some competitors claim 802.3af compliance, they are only compliant in limited configurations – which means that most configurations will require an additional wire (additional cost) to power each AP
- By enabling ORiNOCO 802.11n access points to be simply swapped out in the location of existing APs, Proxim reduces the amount of time and cost spent upgrading networks to 802.11n

Compatibility with Proxim's End-to-End Portfolio

As always, Proxim leverages existing technology to ensure that all products – from WLANs and Wi-Fi Mesh to WiMAX to Point-to-Point – work together from end to end.

- All ORiNOCO 802.11n products operate seamlessly with existing Proxim products, making it an easy addition to your end-to-end wireless network
- All ORiNOCO 802.11n products are easily managed via ProximVision ES, the central network management console that manages existing Proxim end-to-end products

ORiNOCO® AP-8000 & AP-800

Technical Specifications

	ORiNOCO AP-800	ORiNOCO AP-8000
PRODUCT MODELS	9411-XX ORiNOCO 802.11n single radio access point with integrated 802.11a/b/g/n radio	9422-XX ORiNOCO 802.11n dual radio access point with 2 integrated 802.11a/b/g/n radios
RADIO & TRANSMISSION		
RADIO	<ul style="list-style-type: none"> Single Radio Access Point with 802.11a/b/g/n radio 3x3 MIMO 	<ul style="list-style-type: none"> Dual Radio Access Point with 2 802.11a/b/g/n radios 3x3 MIMO
RADIO CONFIGURATIONS	<ul style="list-style-type: none"> 1 x 802.11b/g/n 1 x 802.11a/n 	<ul style="list-style-type: none"> 2 x 802.11b/g/n 2 x 802.11b/g/n and 1 x 802.11a/n 2 x 802.11a/n
MODULATION METHOD	<ul style="list-style-type: none"> MSC0 - MSC15 for 802.11n (6.5Mbps - 300Mbps) BPSK, QPSK, 16-QAM and 64-QAM for 802.11a and 802.11g (6Mbps-54Mbps) DSSS for 802.11b (1Mbps-11Mbps) 	<ul style="list-style-type: none"> MSC0 - MSC15 for 802.11n (6.5Mbps - 300Mbps) BPSK, QPSK, 16-QAM and 64-QAM for 802.11a and 802.11g (6Mbps-54Mbps) DSSS for 802.11b (1Mbps-11Mbps)
FREQUENCY BAND	5.15 - 5.85 GHz 2.4 - 2.483 GHz	5.15 - 5.85 GHz 2.4 - 2.483 GHz
TRANSMIT POWER		
802.11n	19.5dBm	19.5dBm
802.11a	17dBm	17dBm
802.11bg	16.5dBm	16.5dBm
INTERFACES		
ANTENNA CONNECTOR	3 RP-SMA connectors	6 RP-SMA connectors (3 per radio)
ANTENNAS	3 Dual-Band reverse SMA connector Omni Antenna with 3dBi gain	6 Dual-Band reverse SMA connector Omni Antenna with 3dBi gain
ETHERNET	Auto-sensing 10/100/1000BASE-T Ethernet	Auto-sensing 10/100/1000BASE-T Ethernet
PHYSICAL		
DIMENSIONS UNPACKAGED	11 5/16 x 7 x 1 3/4 in (287.34 x 177.8 x 44.75 mm)	11 5/16 x 7 x 1 3/4 in (287.34 x 177.8 x 44.75 mm)
WEIGHT UNPACKAGED	1.4 lbs (.6 kg)	1.5 lbs (.7 kg)
ENVIRONMENTAL		
TEMPERATURE	0° to 55°C (Operating) -20° to 75°C (Storage)	0° to 55°C (Operating) -20° to 75°C (Storage)
HUMIDITY	Max 95% relative humidity (non-condensing)	Max 95% relative humidity (non-condensing)
ELECTRICAL		
POWER SUPPLY	110/220 VAC, 50/60 Hz (input), 5V 3A (output) power adapter	110/220 VAC, 50/60 Hz (input), 5V 3A (output) power adapter
POE	802.3af	802.3af
LEDS	Four indicators on the top panel indicate power, wireless traffic, Ethernet traffic, and error conditions.	Four indicators on the top panel indicate power, wireless traffic, Ethernet traffic, and error conditions.
MANAGEMENT		
LOCAL	RS-232 Serial Port; DB9 Female	RS-232 Serial Port; DB9 Female
REMOTE	SNMP v1; SNMP v2c ; DHCP; Telnet;HTTP; TFTP; SNTp; Scan & Change; BootP; Syslog	SNMP v1; SNMP v2c ; DHCP; Telnet;HTTP; TFTP; SNTp; Scan & Change; BootP; Syslog
SECURE	SSH, SNMPv2, HTTPS	SSH, SNMPv2, HTTPS
MTBF AND WARRANTY	43,800 hours ; One year parts and labor	43,800 hours ; One year parts and labor
PACKAGE CONTENTS	<ul style="list-style-type: none"> (1) AP-800 802.11n access point (1) 110/220V worldwide power adapter (1) Wall/ceiling mount kit (1) Cable security attachment (3) 2.4GHz/5GHz omni-directional antennas with reverse SMA connectors (1) Installation CD-Rom with Software and Documentation (1) Quick Install Guide 	<ul style="list-style-type: none"> (1) AP-8000 802.11n access point (1) 110/220V worldwide power adapter (1) Wall/ceiling mount kit (1) Cable security attachment (6) 2.4GHz/5GHz omni-directional antennas with reverse SMA connectors (1) Installation CD-Rom with Software and Documentation (1) Quick Install Guide

* Product is currently undergoing Wi-Fi Alliance 802.11n draft 2.0 certification

Applications:

- Security and Surveillance –**
 High definition IP-surveillance cameras for monitoring city streets, airports, bridges, seaports, transportation hubs, offices and warehouses
- Enterprise –**
 Enable office workers to be mobile while delivering greater throughput performance than at their desks
- Healthcare –**
 High resolution image files can be transferred with safety and higher speeds than wired networks
- Hotspots –**
 Video and high-speed broadband access solutions for municipalities, public access and local businesses



For detailed technical specifications, please go to <http://www.proxim.com/products>

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