


AP-8000 802.11n Access Point
ORiNOCO Wireless LAN

Proxim Wireless' industry-leading ORiNOCO® wireless LAN products deliver standards-based, enterprise-class 802.11a/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** – *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 pioneer of end-to-end broadband wireless systems that deliver quadruple play services. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

Proxim is First to Break the 300 Mbps Speed Barrier for 802.11n Solutions, Enabling WLAN Networks at Half the Cost

With the introduction of its ORiNOCO 802.11n product line, Proxim Wireless is announcing the availability of the industry's first 802.11n solution to achieve 320 Mbps of throughput with a dualradio solution. In addition, Proxim's new 802.11n products have been designed to be customer friendly and overcome the barriers of cost and complexity faced by competing products to deliver 802.11n networks at half the price of existing WLANs. With Proxim's ORiNOCO® AP-8000 and AP-800 802.11n access points, organizations of all sizes can achieve higher performance than their existing wired and wireless LANs while avoiding the costly controller upgrades, deployment challenges, and additional network planning that have deterred enterprises from upgrading to 802.11n.

IEEE 802.11n is the next generation of the Wi-Fi standard. The primary advantages of 802.11n compliant products are significantly higher throughput and longer range. With the advent of 802.11n technology, the truly unwired enterprise is possible – yet many organizations cite the high cost of migration and the complexity of deployment as barriers to moving to 802.11n.

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

- Highest throughput with single radio rates of over 170Mbps and dual radio rates of 320Mbps
- Substantially higher throughput than typical 10/100 wired LANs
- No need to run new cable to add stations to a LAN
- 7x the throughput of existing typical WLANs
- High reliability for quad play applications
- The only solution to provide dual 2.4 GHz and dual 5GHz operation
- The first solution certified to work for the entire 5 GHz spectrum worldwide

Half the Price of Existing WLANs

Proxim's 802.11n solution drastically reduces the cost of WLAN deployments using 802.11a/b/g products.

- With the added range and throughput, ORiNOCO 802.11n deployments cost only half of today's 802.11a/b/g networks when deployed to achieve the same capacity
- Proxim's 802.11n solution provides two times the range of standard 802.11a/b/g APs to ensure enhanced signal strength to hard-to-reach clients in the office, which simplifies deployment

Reduced Cost of Upgrading to 802.11n

Proxim's ORiNOCO 802.11n products are the first to overcome the deployment challenges and the associated costs of competitive 802.11n products by eliminating the need for forklift upgrades, additional wiring, or additional network planning.

- Because Proxim does not require costly WLAN controllers, Proxim 802.11n networks can cost effectively scale to meet increasing bandwidth demands in the future
- ORiNOCO 802.11n APs are the only APs on the market that are completely 802.3af compliant in all configurations, which avoids the cost of additional wiring or power injectors as required by 802.3at compliant APs

Distributed WLANs with Centralized Management

To provide centralized management of Proxim 802.11n networks, the ProximVision ES network management system supports the ORiNOCO AP-8000 and AP-800 products.

- **Rapid Network Deployment** – ProximVision ES automates configuration processes for faster, more efficient deployment of Proxim Wireless networks.
- **Mobile Configuration Capabilities** – ProximVision ES gives network managers a mobile option for exhaustive device configuration with a software-based tool.
- **Greater Ease of Use and Upgradability** – ProximVision ES can support a greater number of APs than competitively priced solutions and provides the simplest path to configuration and upgrade.

	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 • 1 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 - 6.08 GHz 2.4 - 2.483 GHz	5.15 - 6.08 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 (OPTIONAL)	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; SNMP; Scan & Change; BootP; Syslog	SNMP v1; SNMP v2c ; DHCP; Telnet; HTTP; TFTP; SNMP; 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) 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) 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

APPLICATIONS

• Hotspots

Video and high-speed broadband access solutions for municipalities, public access and local businesses

• 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



For detailed technical specifications, please go to <http://proxim.com/products/enterprise-wireless-lan-wi-fi-mesh/orinoco-ap-8000-and-ap-800>

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