ORiNOCO® Outdoor 802.11n Access Point

Enabling high performance Wi-Fi networks

ORiNOCO® AP-8000MR Access Point

End-to-End Broadband Wireless Product Portfolio

Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products. This portfolio includes:

- ***ORiNOCO®AP -*** *World-class performing enterprise 11n access points*
- ***Tsunami® MP-8100 –*** *Proxim's Point-to-Multipoint Product line delivering wireless performance in excess of 4G products on the market today.*
- ***Tsunami® MP.11 –*** *Proxim's best selling Point-to-Multipoint product line for global markets*

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.

High Capacity 802.11n Outdoor Wi-Fi Access Point Delivers Flexible, Scalable and Reliable Data, Voice and Video for Large Metropolitan and Enterprise Wi-Fi Deployments.

Powered by the next generation high performance dual-radio architecture, the IP-67 rated ruggedized ORiNOCO® 802.11n Outdoor Wi-Fi Access Point delivers data, voice and video over Wi-Fi to the edge of the wireless network while significantly increasing capacity. The main highlights of these product include:

- 2x2 MIMO 802.11n Radios
- High power radio capable of 24 dBm Tx Power
- Ruggedized IP-67 rated outdoor form factor
- More than 150Mbps of application throughput performance per radio
- Two Gigabit Ethernet ports
- Secure management interfaces: SNMPv3, SSL and SSH
- Power-over-Ethernet support

Proactive Security Measures to Protect Your Network

ORiNOCO® access point supports the latest security standards, including IEEE 802.11i and AES encryption, and add proactive security measures to prevent attacks.

- Intra-cell blocking and traffic redirection to prevent subscriber-to-subscriber attacks
- Broadcast bandwidth throttling prevents broadcast attacks
- IEEE 802.1x mutual authentication with dynamic per-user, per-session rotating keys
- Secure management interfaces: SNMPv3, SSL and SSH
- Encrypted storage for security and management parameters eliminates unauthorized access

Reliable by Design

With over 10 years of experience in the design and manufacture of wireless LANs, Proxim Wireless understands that service providers and enterprises require the same uptime and reliability in a wireless network as in a wired network. ORiNOCO® Wi-Fi Access Points offer:

- Robust features for metropolitan Wi-Fi and enterprise applications
- Power-over-Ethernet support

Key Features

IEEE 802.11a/b/g/n	Pre-configured, simultaneous IEEE 802.11a/b/g/n support on both radios
802.11n High throughput Mode	Delivers 150 Mbps TCP/UDP throughput performance per radio
Field Upgradeable	Software upgradeable to support new standards
IEEE 802.11i and AES Encryption	Highest level of authentication and encryption methods including mutual authentication, message integrity check (MIC), per-packet keys initialization vector hashing and broadcast key rotation
Secure Management Interfaces	SNMPv3, SSL and SSH protect against unauthorized AP changes via the management interface
Multiple BSSID Support	Up to 4 Basic Service Set identifiers (BSSIDs) per radio
Quality of Service (QoS)	IEEE 802.11e/WMM support along with 802.1p and 802.1q which improves the performance of video and voice applications
Transmit Power Control	Supports selectable transmit power levels to adjust coverage cell size
Automatic Channel Selection	Simplifies installation by choosing the best possible channel upon installation
RADIUS Support	Extensive RADIUS Authentication and RADIUS Accounting support
Advanced Filtering Capabilities	IEEE 802.1d bridging with static MAC address filtering Network protocol filtering TCP/UDP port filtering, Intra-cell traffic filtering to prevent client-to-client snooping
Non Line of Sight Capable	Non Line of sight connectivity with 2x2 MIMO extends deployment flexibility in rural as well as high-density urban areas

	ORiNOCO AP-8000MR Access Point
RADIO SPECIFICATION	2x Dual-band 2x2 MIMO radios
MODULATION	
802.11B/G/N	OFDM, DSSS , and CCK
802.11A/N	OFDM
FREQUENCY BAND[1]	
802.11B/G/N	2.412 to 2.472 GHz
802.11A/N	5.15 to 5.25GHz, 5.25 to 5.35GHz, 5.47 to 5.725GHz, and 5.745 to 5.825GHz
DATA RATE	
802.11B	1, 2, 5.5, 11 Mbps
802.11G	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11A	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11N	Up to 300 Mbps
MAX TRANSMIT POWER	24 dBm
INTERFACES	
WIRED	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet - Port #1 with PoE in & Data - Port #2 with PoE out & Data
	Management console port (RJ11)
WIRELESS	Integrated 802.11a/b/g/n 2x2 MIMO radios
ANTENNA	4 N-Type connectors
LEDs	▪ Power, and Ethernet link status ▪ Wireless links status
WIRELESS SPECIFICATION	IEEE 802.11abgn IEEE 802.11d – Worldwide regulatory domains IEEE 802.11e - WMM IEEE 802.11h – DFS and TPC IEEE 802.11i - WPA/WPA2
PHYSICAL SPECIFICATION	
DIMENSIONS	10.5 x 10.5 x 3.25 in (267 x 267 x 83 mm)
WEIGHT	7.27 lbs (3.3 kg)
ENVIRONMENTAL	
TEMPERATURE	Operating: -40º to 50ºC (-40º to 122º Fahrenheit) Storage: -55º to 85ºC (-67º to 185º Fahrenheit)
HUMIDITY	Max 95% relative humidity (non-condensing)
WIND LOADING	125 mph
WATER & DUST PROOF	IP67
ELECTRICAL	
POWER SUPPLY	PoE: 110/240 VAC (input); 48 VDC ± 10%(output)
POWER CONSUMPTION	22Watts (typical)
MANAGEMENT	
LOCAL	RS-232 serial (RJ11 to DB-9)
REMOTE	Telnet and SSH, Web GUI, SSL, TFTP, and Syslog
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412,RFC-3414, Private MIB
S/W UPGRADE	Remote upgradeable through TFTP or HTTP
CERTIFICATIONS	
IP RATING	IP67
REGULATORY	Europe – ETSI EN301 893, EN301 489-1 and -17, EN 301 893 v1.5.1
PACKAGE CONTENTS	One AP unit with 2 or 4 Type-N Connectors One PoE injector and country specific power cord One Wall/Pole mounting kit One Grounding Kit One Connector Weather proofing Kit One serial(RJ-11 to DB9) cable One Gigabit PoE Surge Arrestor One Printed Quick Install Guide
MTBF AND WARRANTY	75,000 hours; 1-year on parts and labor

[1]Frequency Band support varies by region and country.