ORiNOCO® AP-8100
802.11n Access Points

Proxim introduces dual 802.11n radio ORiNOCO® AP-8100, combining compact design with breakthrough speeds of 300 Mbps and incredible flexibility.

High Performance
Proxim’s ORiNOCO® AP-8100 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 rates of 300+300Mbps
- 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

Highly Secure
Proxim’s ORiNOCO® AP-8100 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 device scan providing list of devices surrounding AP-8100
- Secure management (https/SSL, telnet/SSH and SNMPv3) preventing unwanted configuration change
- Kensington Lock protecting against product theft
- Fire resistant enclosure matching plenum installation requirement

Cost Effective
Proxim’s ORiNOCO® AP-8100 solution drastically reduces the cost of WLAN deployments
- With the added range and throughput, deployments now cost only a fraction of today’s 802.11a/b/g networks when deployed to achieve the same capacity
- AP-8100 provides two times the range of standard 802.11a/b/g APs ensuring enhanced signal strength to hard-to-reach clients in the office, which simplifies deployment

Unparalleled Flexibility and Convenience with Centralized Management
ProximVision network management system supports ORiNOCO® AP-8100 giving network architects unparalleled flexibility.
- 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

Reduced Cost of Upgrading
Proxim’s ORiNOCO® AP-8100 overcomes 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, AP-8100 networks can cost effectively scale to meet increasing bandwidth demands in the future
- ORiNOCO 802.11n APs are the only APs in 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
- 8100 APs utilize a very convenient mounting hardware enabling simple swap out of old APs and making upgrades a snap
PRODUCT MODELS
ORiNOCO® AP-8100

INTERFACES
WIRELESS PROTOCOL
One 802.11b/g/n radio, One 802.11a/n radio

RADIO & TX SPECS
MIMO
2x2 MIMO

MODULATION
OFDM with BPSK, QPSK, QAM16 and QAM64 / DSSS

FREQUENCY
2.400 – 2.484 GHz
5.150 – 5.850 GHz

CHANNEL SIZE
40 MHz and 20 MHz channel bandwidths

DATA RATE
6.5 – 300 Mbps for 802.11n mode (MCS 0 to 15), 6 – 54 Mbps for 802.11a/g mode (BPSK, QPSK, 16-QAM and 64-QAM), 1 – 11 Mbps for 802.11b mode (DBPSK, DQPSK and CCK)

TX POWER
Up to 17 dBm (single Tx chain), Up to 20 dBm (two Tx Chain)

RX SENSITIVITY (BER=10^-6)
802.11b
-93 dBm
802.11g
-90 dBm
802.11a
-90 dBm

ANTENNA
PIFA High Efficiency
3 dBi peak
4 dBi peak

MANAGEMENT
REMOTE
Telnet and SSH, Web GUI and SSL, TFTP, SNMP v1, v2c and v3

SECURITY
ENCRYPTION
WEP, TKIP and AES, based on 802.11i standard

WIRELESS
AP-AP COMMUNICATION
WDS with STP loop avoidance

NETWORK
DHCP
Client and Server

QoS
Wireless Multimedia Extensions, based on 802.11e EDCA standard

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

ELECTRICAL
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
7 Watt average, 12 Watt peak

ENVIRONMENTAL SPECS
OPERATING TEMPERATURE
0º to 45ºC (32º to 113º Fahrenheit)

STORAGE TEMPERATURE
-40º to 70ºC (-40º to 158º Fahrenheit)

HUMIDITY
5 to 95 % relative humidity (non-condensing)

PHYSICAL SPECS
DIMENSIONS (PACKAGED)
13x8.5x2.17 in (300x216x55 mm)

DIMENSIONS (UNPACKAGED)
6.69 x 6.69 x 1.74 in. (170 x 170 x 44.1 mm)

WEIGHT (PACKAGED)
17 lbs (770 kg)

WEIGHT (UNPACKAGED)
0.75 lbs (0.340 kg)

SAFETY STANDARDS
UL 60950-1, plenum rated (ATX 200 material)

PACKAGE CONTENTS
- One ORiNOCO® AP-8100 unit
- One power adapter
- One Wall/Ceiling mounting kit
- One Quick Installation Guide

MTBF & WARRANTY
Over 100k Hours

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