ORiNOCO® AP-9100
Enterprise Class 802.11ac Access Point

Proxim introduces the all new 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 incredible MIMO 3x3:3 performance of 1750 Mbps aggregate data rate and unparalleled flexibility. In addition, Proxim’s new 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 finally unwire the wired LAN by providing greater performance than existing Ethernet networks

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

- 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

Standalone and Controller-Ready

ORiNOCO®AP-9100 offers advantage of both architectures

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

Cost Effective

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

- With twice the range and added throughput, AP-9100 setups now cost only a fraction of today’s 802.11n networks when deployed to achieve the same capacity
- AP-9100 simplifies installation by ensuring enhanced signal strength to hard-to-reach clients
- AP-9100 utilize a very convenient mounting hardware enabling simple swap out of old Proxim AP’s and making upgrades a snap
**PRODUCT MODELS**

**AP-9100**
ORiNOCO AP-9100, MIMO 3x3, 802.11 ac + b/g/n dual radio Access Point

**INTERFACES**

**WIRED ETHERNET**
One auto MDI-X RJ45 10/100/1000Mbps Ethernet

**WIRELESS PROTOCOL**
Radio #1: 802.11a/n/ac
Radio #2: 802.11b/g/n

**RADIO**

<table>
<thead>
<tr>
<th></th>
<th>Radio #1</th>
<th>Radio #2</th>
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</thead>
<tbody>
<tr>
<td><strong>FREQUENCY</strong></td>
<td>5.150 – 5.350, 5.470 - 5.850 GHz (Subject to Country Regulations)</td>
<td>2.400 – 2.484 (Subject to Country Regulations)</td>
</tr>
<tr>
<td><strong>MIMO</strong></td>
<td>802.11a, 802.11g, 802.11n</td>
<td>802.11b, 802.11g, 802.11n</td>
</tr>
<tr>
<td><strong>MODULATION</strong></td>
<td>OFDM BPSK - QAM256</td>
<td>OFDM BPSK - QAM64</td>
</tr>
<tr>
<td><strong>DATA RATE</strong></td>
<td>80 MHz, 40 MHz, 20 MHz</td>
<td>80 MHz, 40 MHz, 20 MHz</td>
</tr>
<tr>
<td><strong>TX POWER</strong></td>
<td>MC50: 20, MC50: 15, MC50: 19</td>
<td>MC50: 87, MC50: 90, MC50: 92</td>
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**ANTENNA**

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<tr>
<th></th>
<th>Radio #1</th>
<th>Radio #2</th>
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<tr>
<td><strong>Three integrated PIFA antennas: 5 dBi</strong></td>
<td>Three integrated PIFA antennas: 4.5 dBi</td>
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**MANAGEMENT**

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

**OTHER**
Syslog, and SNTP

**NETWORK**

**DHCP**
Client and Server

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

**WIRELESS**

**AP-AP COMMUNICATION**
WDS with STP loop avoidance

**RF ENVIRONMENT**
Rogue Scan

**QOS**
802.11e Enhanced Distributed Channel Access

**SECURITY**

**AUTHENTICATION**
Enterprise/802.1x, Personal/PSK (Pre Shared Key) or Open plus Internal MAC Address Control List

**802.1X SUPPORT**
P.EAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA

**ENCRYPTION**
802.11i Wireless Security with AES-128, TKIP or WEP

**THROUGHPUT**

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<tr>
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<th>Radio #1</th>
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<tr>
<td><strong>Upto 650 Mbps</strong></td>
<td>Upto 225 Mbps</td>
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**POWER**

**POWER OVER ETHERNET**
802.3at compliant

**POWER ADAPTER**
10/220 V AC - 50/60 Hz (input), 12 V DC - 1.25 A (output)

**CONSUMPTION**
<12.9 Watt typical

**ENVIRONMENTAL SPECS**

**OPERATING TEMPERATURE**
0º to 40ºC (32º to 104º Fahrenheit)

**STORAGE TEMPERATURE**
-20º to 60ºC (-4º to 140º Fahrenheit)

**HUMIDITY - IP RATING**
5% - 90% relative humidity

**SURFACE 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**

| PACKAGED               | 13.2 x 8.45 x 2.16 in. (335 x 215 x 55 mm) |
| UNPACKAGED            | 6.69 x 6.69 x 1.74 in. (170 x 170 x 44.1 mm) |
| **WEIGHT**            | 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)

**PACKAGE CONTENTS**

- One ORiNOCO® AP-9100
- One Wall / Ceiling mounting kit
- One power adapter
- One Quick Installation Guide

**MTBF**
Over 500k hours

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