

EXPERIENCE THE FREEDOM OF WIRELESS NETWORKS FOR THE ENTERPRISE



ORiNOCO® AP-2000 11a Kit Access Point Family

Upgrade Your AP-2000 WLAN Infrastructure to Higher Speeds: from 11 Mbps to 54 Mbps in the 5GHz band

The ORiNOCO AP-2000 11a Kit gives you the flexibility to operate your wireless network on either the Wi-Fi 2.4 GHz (11Mbps or 54 Mbps) or 5GHz (54 Mbps) frequency, utilizing the AP-2000's dual radio architecture. Protecting your infrastructure investment, it provides full support for your existing client devices. The Kit can also work alongside the AP-2000 11g Kit, providing support for 11a, 11b and 11g clients simultaneously.

The 54-Mbps technology in the 5GHz band gives you the ability to run more "bandwidth hungry" applications, with faster response times. As a less-used band, it requires less bandwidth sharing, resulting in higher throughput. In addition, with more available radio channels, higher capacity systems can support more simultaneous users.

The 11a Kit includes a customized antenna for 5GHz transmission, delivering increased performance and range. The AP-2000 dual-radio architecture enables you to create simultaneous mixed frequency and mixed throughput networks to accommodate a mixture of client devices for various applications. The AP-2000 platform, with its 233MHz StrongArm 110 processor, can simultaneously support the 54 Mbps 5GHz technology, along with 11 Mbps (802.11b) or 54 Mbps (802.11g) Wi-Fi technology in the 2.4 GHz band.



The ORiNOCO AP-2000 11a Kit protects your infrastructure investment by easily upgrading the AP-2000 Access Point so you can serve client devices using 5GHz PC Cards. The Kit enables intuitive, easy migration to a more powerful radio that allows higher data rate and LAN throughput. The AP-2000 11a Kit is part of ORiNOCO's family of infrastructure and client products – everything you need for wireless networking throughout your enterprise or public hotspot.

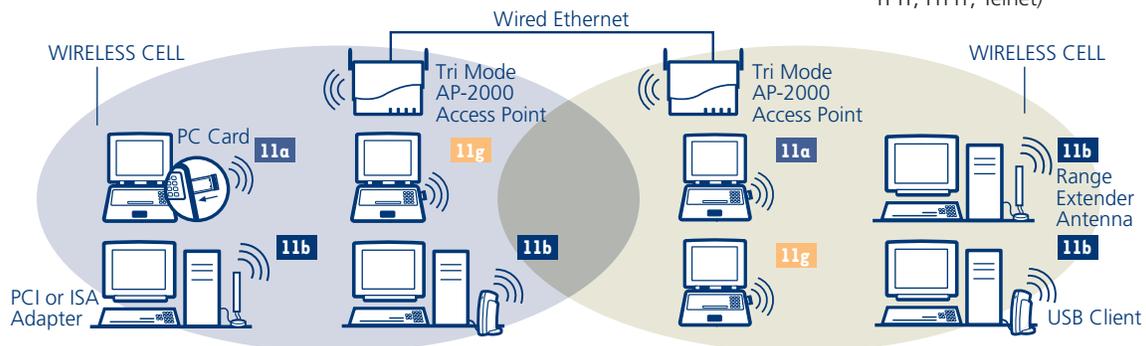
APPLICATIONS

- Large Enterprises: improve efficiency by providing wireless network access for staff and a separate guest services network
- Large Public Hotspots: accommodate customers utilizing mixed-bandwidth client devices
- Hospitals: enable location-wide transmission of bandwidth-intensive medical data and image files

FEATURES

ORiNOCO AP-2000 with AP-2000 11a Kit

- Easy upgrade using dual slot architecture for AP-2000 users to 5GHz
- Combined with the AP-2000 11b/g Kit, creates a tri-mode access point, providing simultaneous support for 802.11b Wi-Fi clients, 802.11g clients and 802.11a clients
- 802.1x support with re-key mechanism
- Support for Wi-Fi Protected Access (WPA) authentication and encryption
- Support for 16 VLANs per radio
- Wireless Distribution System support (on the Wi-Fi link)
- Broad management capabilities (SNMP, TFTP, HTTP, Telnet)



Supporting 11g and 11a clients requires the AP-2000 11g Kit and the AP-2000 5GHz Kit with the AP-2000

ORINOCO AP-2000 11a Kit Specifications

FREQUENCY

Bands	FCC UNII (8 Channels) 5150-5350 MHz (5.18, 5.2, 5.22, 5.24, 5.26, 5.28, 5.3, 5.32 GHz) TELEC- Japan (4 Channels) 5170, 5190, 5210, 5230 MHz
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MEDIA ACCESS PROTOCOL

CSMA/CA (Collision Avoidance) with ACK

INTERFACE

CardBus

RANGE

Semi Open Office	15m 120m	54 Mbit 6 Mbit
Open Environment	40m 400m	54 Mbit 6 Mbits

MAXIMUM OUTPUT POWER

17 dBm

RECEIVER SENSITIVITY

From -85 dBm at 6 Mbit/s to -65 dBm at 54 Mbit/s

DELAY SPREAD ROBUSTNESS

>160 nsec

ANTENNA

Two integral omni directional 5 dBi antennas with diversity 0-180 degrees articulation

DATA RATES

IEEE 802.11a compliant 54, 48, 36, 24, 18, 12, 6 Mbps with automatic fall back

WIRELESS MEDIUM

Orthogonal Frequency Division Multiplexing (OFDM)

MODULATION TECHNIQUE

Orthogonal Frequency Division Multiplexing (OFDM)
64 QAM, 16QAM, QPSK, BPSK With rate fallback

COMPLIANCE

United States	FCC,UL,
Japan	VCCI, Telec,JATE
Canada	Industry Canada
Europe	ETS

POWER CONSUMPTION

Maximum Power at 3.3V nominal 1.8W (545 mA)

TEMPERATURE RANGE

0°C - 70 °C; 95% max humidity (non condensing)

WARRANTY

1 year

RELATED PRODUCTS

AP-2000, AP-2000 11b/g Kit, 11b PC Card, 11a/b/g ComboCard client

ORDERING INFO

8856-FC	ORI AP-2000 11a KIT
8856-ET	
8856-ET2	
8856-JP	
8856-SG	
8856-ASIA	
8856-TW	

