ORiNOCO® AP-2000 5GHz Kit

Access Point Family

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

The ORiNOCO AP-2000 5GHz Kit gives you the flexibility to operate your wireless network on either the Wi-Fi 2.4 GHz (11 Mbps) or 5GHz (54 Mbps) frequency, utilizing its dual-mode architecture. Protecting your infrastructure investment, it provides full support for your existing 802.11a 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 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 5GHz Kit includes a customized antenna for 5GHz transmission, delivering increased performance and range. The AP-2000 dual-mode 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 new 54 Mpbs 5GHz technology, along with 11 Mbps Wi-Fi technology, and is ready for the new 802.11g technology.

The ORiNOCO AP-2000 5GHz 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 5GHz 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
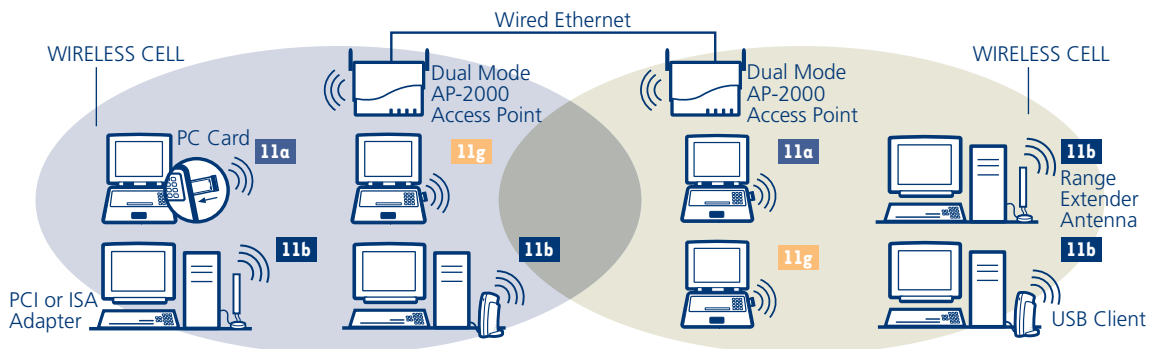
FEATURES

ORiNOCO AP-2000 5GHz Kit

- Easy upgrade using dual-mode architecture for AP-2000 users to 5GHz
- Simultaneous support for 802.11b Wi-Fi clients, 802.11g clients and 802.11a clients

AP-2000

- 802.1x support with re-key mechanism
- 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 5GHz 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	

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 Multipiexing (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 5GHz Kit, PC Card, Extended Antenna

ORDERING INFO	
8800-FC	ORI AP-2000 11G KIT FCC
8800-ET	ORI AP-2000 11G KIT ETS
8800-JP	ORI AP-2000 11G KIT MKK

WiFi CERTIFIED