



Easily upgrades the AP-2000 access point to meet the needs of clients using 5GHz PC Cards while protecting your infrastructure investment. 5GHz Kit enables intuitive and easy migration to a new, more powerful radio that achieves higher data rate and LAN throughput.

The ORiNOCO AP-2000 5GHz Kit is part of ORiNOCO's complete broad product family of infrastructure and client products—all you need to get a wireless network up and running throughout your enterprise, public places hot-spots, the small office, or the home.

# ORiNOCO® AP-2000 5GHz Kit

## Broadband Wireless Networking for the Enterprise

The ORiNOCO AP-2000 5GHz Kit enables network managers to support networks operating on either the Wi-Fi 2.4 GHz (11 Mbps) or 5GHz (54 Mbps) frequencies. The Kit includes an 802.11a radio for use with the ORiNOCO AP-2000 Access Point, designed to support 802.11a client devices in an existing ORiNOCO wireless LAN. The Kit includes an antenna fixture which consists of two 'rabbitear' antenna. The antenna fixture can be installed while the AP-2000 remains on the wall.

### Higher data rate and throughput

The new 54-bit technology provides faster response time and the ability to run more "bandwidth hungry" applications. The 5GHz band, which is less heavily used than the 2.4GHz, requires less bandwidth sharing, resulting in overall higher throughput. In addition, with more available radio channels, higher capacity systems can be deployed to allow more users in the same area to use the network simultaneously. The 5GHz band is also free from interferences such as a from microwave ovens and, cordless phones.

### Extended Range

The ORiNOCO AP-2000 5GHz Kit includes a customized antenna specifically designed for 5 GHz transmission, delivering increased performance and range.

### Migration Path for Investment Protection

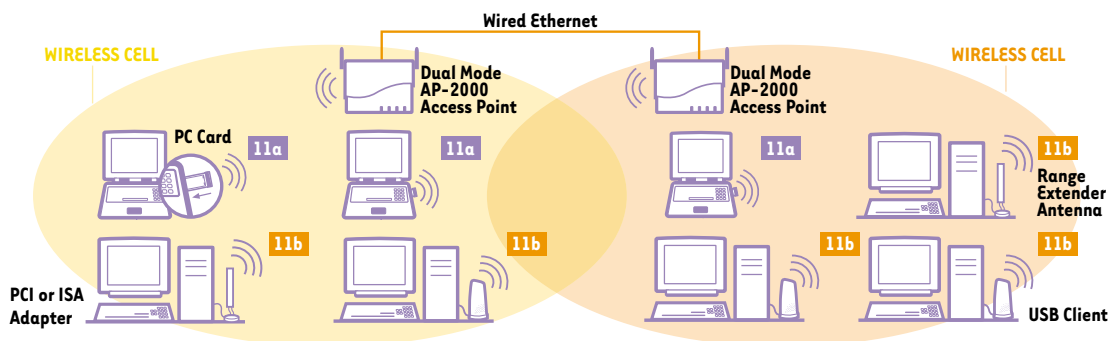
The ORiNOCO AP-2000 5GHz Kit offers a cost effective solution to existing AP-2000 infrastructure because rather than replacing complete access point units. The AP-2000 platform, with its 233MHz StrongArm 110 processor, has enough power to simultaneously support the new 54 Mbit/s 5GHz technology together with established 11Mbps Wi-Fi technology, as well as be ready for new 802.11g technology.

### ORiNOCO AP-2000 5GHz KIT FEATURES

- Easy migration path for AP-2000 users to 5GHz
- Simultaneously support Wi-Fi clients and 802.1.11a clients

### AP-2000 FEATURES

- 802.1x support with re-key mechanism
- Wireless Distribution System support (on the Wi-Fi link)
- Broad management capabilities (SNMP, TFTP, HTTP, Telnet)



## About Agere Systems

The Wireless Communications and Networking Division (WCND) of Agere Systems, formerly known as the microelectronics division of Lucent Technologies, is a global leader in wireless local area network (WLAN) technology. It designs and sells ORiNOCO wireless LAN products and solutions through a network of leading OEM customers. Agere Systems has also established WLAN sales channels to service providers, enterprise customers and end-users through several e-commerce sites and a vast array of value-added resellers. The ORiNOCO line of products encompasses a full range of indoor and outdoor WLAN products, as well as enhanced security products for public areas and security-conscious enterprises.



The Standard For  
Wireless Fidelity

Wi-Fi is a trademark of the Wireless Ethernet Compatibility Alliance, Inc.  
Windows and Windows Me are registered trademarks of Microsoft Corporation.

More information on ORiNOCO products:  
[www.orinocowireless.com](http://www.orinocowireless.com)



## Antenna Adapter 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	54 Mbit
	120m	6 Mbit
Open Environment	40m	54 Mbit
	400m	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

### 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