



PCI Card with External Antenna

## ORiNOCO Wireless LAN

Proxim Wireless' industry-leading ORiNOCO® wireless LAN products deliver enterprise-class 802.11 a/b/g functionality, standards based networking, capacity, security and Quality of Service. This portfolio includes:

- **ORiNOCO Client Products –**  
Ultimate flexibility to connect to any Wi-Fi® network
- **ORiNOCO Access Points –**  
Enterprise-class AP with QoS support and mesh capabilities
- **ORiNOCO Wi-Fi Mesh –**  
Outdoor and indoor Wi-Fi mesh for service providers and municipalities

**Proxim Wireless** is a global pioneer in scalable broadband wireless networking. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, point-to-multipoint and point-to-point products are available through our extensive global channel network.

## Convenient Desktop Connectivity for Any Network

The ORiNOCO 11a/b/g PCI Card conveniently connects computers that have available PCI slots to any 802.11g, 802.11b or 802.11a wireless network. Ideal for enterprise applications in which computers and/or Internet connections are limited, the PCI card makes desktops mobile. Furnished with a ready-to-use external antenna and 1.5m cable, the PCI card allows users to determine optimal antenna placement for their specific environments. This placement flexibility guarantees maximum signal strength even when computers are located in areas where RF signals may not reach such as, under desks or inside rolling carts.

- Plugs directly into PCI Card slot
- External antenna with 1.5m cable for optimal connections
- Improved antenna design requires no assembly and improves coverage
- Intuitive client utility for easy, fast configuration
- ROHS Compliant

## High-Performance Solutions for High-Bandwidth Applications

Proxim's ORiNOCO family of 11a/b/g Cards delivers high performance solutions to securely connect laptops, desktops and dedicated function computers to 802.11g, 802.11b and 802.11a networks.

- Data rates up to 54 Mbps in 802.11g and 802.11a mode and up to 108 Mbps in Proxim's 2X mode support the most bandwidth intensive applications
- Unlimited number of location profiles, ideal for hot spot applications
- Transmitter power control for optimal performance

## Support for All Networks Protects Your Investment

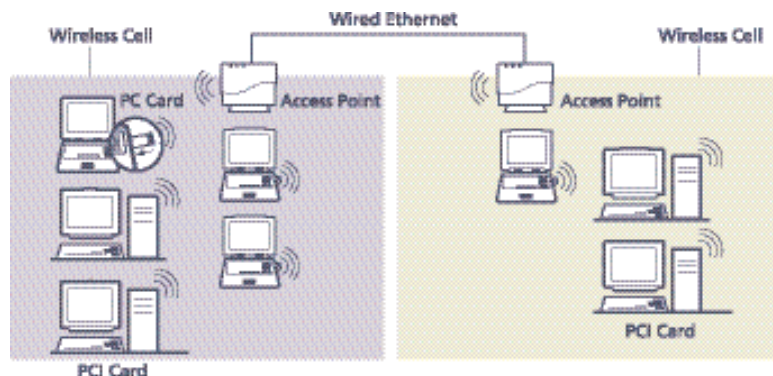
The ORiNOCO 11a/b/g Cards are fully compliant with all 802.11 standards and support a broad range of applications and host computer systems – completely protecting your network investment.

- Simultaneous support for 802.11g infrastructure within legacy 802.11b networks
- Seamless roaming between 802.11a/b/g networks

## Highest Wi-Fi Security Standards

Like all ORiNOCO Wi-Fi® solutions, the ORiNOCO 11a/b/g Cards provide the most advanced multi-level enterprise-class security capabilities.

- Enterprise-class 802.1x authentication
- WEP, TKIP and AES encryptions
- Wi-Fi Protected Access (WPA/WPA2) support
- QoS support based on W-Fi Multimedia (WMM) specifications



# ORiNOCO 11a/b/g PCI Card Specifications

<b>PRODUCT MODELS</b>	
8482-WD	ORiNOCO 11a/b/g PCI Card Gold - World
8482-JP	ORiNOCO 11a/b/g PCI Card - Japan (J52 band)
8482-JP2	ORiNOCO 11a/b/g PCI Card - Japan (J52, W52, W53 bands)
8482-FC	ORiNOCO 11a/b/g PCI Card Gold - FCC
<b>INTERFACE</b>	
CARDBUS TYPE	PCI Card (32-bit)
<b>RADIO CHARACTERISTICS</b>	
FREQUENCY	FCC (26 Channels) 2400-2484; 5150-5250; 5250-5350; 5725-5850 MHz ETSI (32 Channels) 2400-2484; 5150-5250; 5250-5350; 5470-5720 MHz TELEC (22 Channels) 2400-2484; 5150-5250 MHz; 5250-5350 MHz IDA (22 Channels) 2400-2484; 5150-5250; 5725-5850 MHz
MODULATION TECHNIQUES	802.11a, 802.11g Orthogonal Frequency Division Modulation (64 QAM, 16 QAM, QPSK, BPSK) 802.11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
MEDIA ACCESS PROTOCOL	CSMA/CA (Collision Avoidance) with ACK
MAXIMUM OUTPUT POWER	802.11a, 802.11b: 100mW, EIRP 802.11g: 80mW, EIRP
DATA SPEEDS (AUTOMATIC FALLBACK FOR EXTENDED RANGE)	802.11a, 802.11g modes: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11b mode: 11, 5.5, 2, 1 Mbps 2X mode: 108, 96, 72, 48, 36, 24, 18, 12 Mbps
POWER CONSUMPTION	802.11a: Tx – 520 mA, Rx – 310 mA 802.11b, 802.11g: Tx – 600 mA, Rx – 330 mA
<b>PHYSICAL SPECS</b>	
DIMENSIONS:	
PACKAGED	11 x 9 x 4 in (279.4 x 228.6 x 101.6 mm)
WEIGHT:	
PACKAGED	2 lbs (0.90 kg)
<b>ENVIRONMENTAL SPECS</b>	
TEMPERATURE:	
OPERATING	0° to 55°C
STORAGE	-10° to 75°C
HUMIDITY:	
OPERATING	90% (non-condensing)
STORAGE	95% (non-condensing)
<b>PCI CARD SPECS</b>	
PCI	32-bit interface
POWER SUPPLY VOLTAGE	3.3 VDC from host (+/-0.2V)
<b>OPERATING SYSTEM</b>	Windows 2000, XP
<b>SECURITY</b>	
802.1X SUPPORT	EAP-TLS, TTLS, MD5, PEAP, LEAP
ENCRYPTION	WEP, TKIP, AES
<b>WARRANTY</b>	1-year
<b>PACKAGE CONTENTS</b>	<ul style="list-style-type: none"> <li>• PCI Card with external antenna and 1.5m cable</li> <li>• Getting Started Guide</li> <li>• CD-ROM with drivers, installation and configuration utility</li> </ul>
<b>RELATED PRODUCTS</b>	AP-700, AP-4000, AP-4000M, AP-4000MR(-LR), AP-4900MR-LR ORiNOCO 11a/b/g ComboCard, 11b/g PC Card, 11b PC Card, 802.11b/g USB Client Adapter

## APPLICATIONS

- **Business and government enterprises:**  
Easily upgrades computers to latest 802.11 wireless standards  
Enables easier, more cost-effective adds/moves/changes
- **Hospitals and medical clinics:**  
Mobile computers with real time medical data improve patient care
- **Schools and universities:**  
Bring Internet connectivity to every desktop, classroom and student
- **Manufacturing:**  
Allows quick reconfiguration of equipment without new wiring



For detailed technical specifications, please go to <http://www.proxim.com/products/wifi>

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