



ORiNOCO 11a/b/g ComboCard

### 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.

### Simple, Convenient and Secure Wireless LAN Connectivity for Every Network

Proxim's ORiNOCO ComboCard delivers the utmost mobile convenience and performance, allowing secure connections to 802.11b, 802.11a and 802.11g networks from a single card. With the ORiNOCO ComboCard, you can move easily between 802.11 networks at work, home, and in public spaces. The ComboCard provides wireless networking data rates of up to 54 Mbps in 802.11 mode and 108 Mbps in Proxim's 2X mode. The ComboCard provides throughput five to ten times higher than 802.11b-only products and supports bandwidth-intensive applications.

Wi-Fi® certified, ORiNOCO client products support WPA, WPA2 and 802.11e standards, delivering high-performance for a broad range of applications and host computer systems. The 11a/b/g ComboCard protects your network investment by allowing you to deploy and simultaneously support new higher speed 802.11a and g infrastructure within legacy 802.11b networks. The ORiNOCO Clients provides multiple security levels, with WEP, TKIP and AES encryptions and 802.1x authentication for enterprise-class security.

### Features

- Plugs directly into CardBus Type-II slot
- Intuitive client utility for easy, fast configuration
- Transmitter power control for optimal performance
- ROHS compliant

### Support for All Networks Protects Your Investment

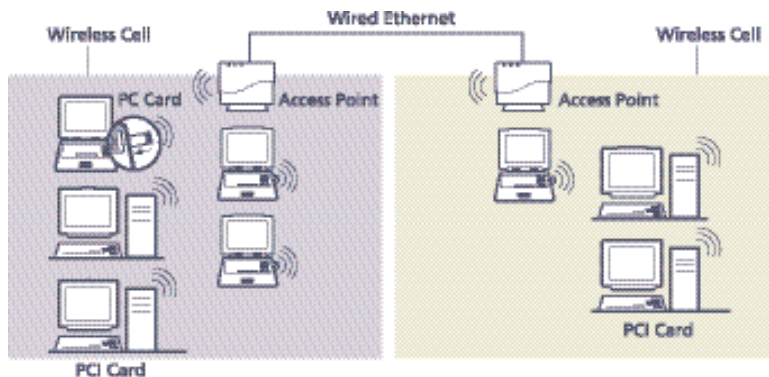
The ORiNOCO 11a/b/g Cards are fully compliant with all 802.11 standards and support a broad range of applications and host computer systems – completely protecting your network investment.

- 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 ComboCard provides 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 Wi-Fi Multimedia (WMM) specifications



# ORiNOCO 11a/b/g ComboCard Specifications

<b>PRODUCT MODELS</b>	
8480-WD	ORiNOCO 11a/b/g ComboCard Gold - World
8480-JP	ORiNOCO 11a/b/g ComboCard Gold - Japan (J52 band)
8480-JP2	ORiNOCO 11a/b/g ComboCard - Japan (J52, W52, W53 bands)
<b>INTERFACE</b>	
CARDBUS TYPE	CardBus Card (32-bit) Type-II PC Card
<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, 802.11g: 60mW, EIRP 802.11b: 85mW, 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	10.25 x 8 x 1.5 in (260.3 x 203.2 x 114.3 mm)
UNPACKAGED	4.79 x 2.13 x 0.2 in (121.75 x 54 x 5 mm)
WEIGHT:	
PACKAGED	12.99 oz (368.5 g)
UNPACKAGED	1.94 oz (55 g)
<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>PC CARD SPECS</b>	
TYPE II CARDBUS	32-bit interface
POWER SUPPLY VOLTAGE	3.3 VDC from host (+0.2V)
<b>LEDS</b>	
2 LEDS	Power, Network Activity
<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>• CardBus Card</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 PCI Card, 11b/g PC Card, 802.11b/g USB Client Adapter

## APPLICATIONS

- **Community Access Networks:**  
Mobile connection to public hotspots
- **Small/medium business, enterprises:**  
Improved productivity with mobile network, Internet, email inside buildings and around campuses
- **Universities:**  
Flexible, immediate, mobile faculty and student connectivity in dorms, classroom and offices
- **Healthcare:**  
Hospital-wide transmission of bandwidth-intensive medical data and image files to mobile computing devices

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

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