ORiNOCO™
PC Card

Home, Office, and Public Mobile Broadband Internet Access

One Card, One Technology, One Solution

The same ORiNOCO PC card can be used for the Enterprise, ISP, Public Access or Home/SOHO markets using any of the ORiNOCO access point infrastructure products. The card provides high-speed wireless networking at 11 Mbit/s, and secure Internet access for laptop and desktop computers, as well as a wide range of mobile client computing devices. The ORiNOCO suite of products builds on Lucent's industry-leading WaveLAN® wireless LAN technology.

Freedom to Work Anywhere

ORiNOCO PC Card delivers the same high-performance connectivity as wired systems, with the added freedom to move around your building or campus.

Compatible with Industry Standards

The ORiNOCO PC Card is interoperable with other manufacturers' high-speed IEEE 802.11b compliant systems and is fully compliant with the WECA Wi-Fi (wireless fidelity) standard. It is also compatible with Lucent's previous 2 Mbit/s and Turbo products.

Data Protection and Security

Our ORiNOCO PC Card is designed with a choice of security levels to protect your data. The standard level, 'Silver' PC Card, has wired equivalent privacy (WEP), using a 64-bit key. The 'Gold' version provides enhanced security with a 128-bit key, using RC4 encryption.

Basic ORiNOCO PC Card Configuration

Direct backbone

PC card

ISA adapter
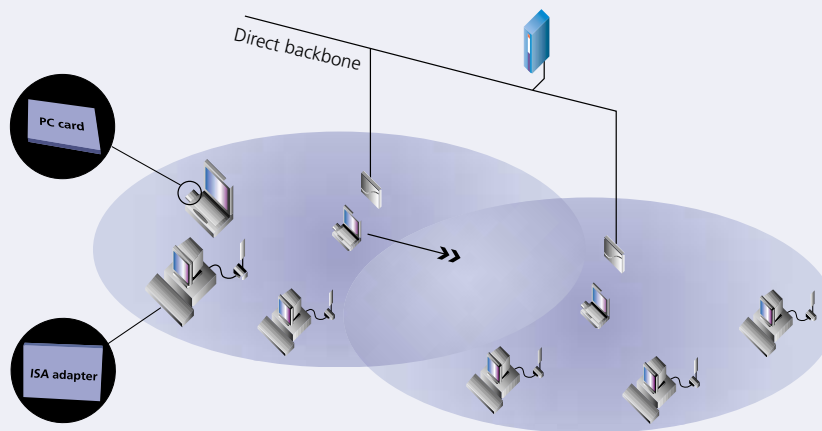
YOUR MOBILE BROADBAND CONNECTION

orinoco
THE NEW WAVELAN

ORiNOCO PC Card Specifications

Frequency Band	2400-2483.5 MHz			
Numbers of Selectable Sub-Channels	11 (USA FCC)			
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)			
Spreading	11-chip Barker sequence			
Bit Error Rate	Better than 10^{-5}			
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK			
Interface	PC card (ISA and PCI adapter cards are available			
Dimensions	117.8 mm X 53.95 mm X 8.7 mm (PC Card)			
Range in meters (feet) (100 bytes user data)	11 Mbit/s	5.5 Mbit/s	2 Mbit/s	1 Mbit/s
Open Office	160 m (525 ft)	270 m (885 ft)	400 m (1300 ft)	550 m (1750 ft)
Semi Open Office	50 m (165 ft)	70 m (230 ft)	90 m (300 ft)	115 m (375 ft)
Closed Office	25 m (80 ft)	35 m (115 ft)	40 m (130 ft)	50 m (165 ft)
Receiver Sensitivity dBm	–82	–87	–91	–94
Delay Spread (at FER of <1%)	65ns	225ns	400ns	500ns
Output Power	15 dBm			
Power Consumption PC Card	Doze mode – 9 mA Receiver mode – 185 mA Transmit mode – 285 mA			
(5 V power supply) ISA	+25mA			
Temperature Range (operational)	0-55° 95% max. humidity (non condensing)			
Compatibility	Novell Client 3.x & 4.x, Windows® 95/98/2000 and Windows NT (NDIS Miniport driver); Apple®; Windows/CE			
Standards	IEEE 802.11b HR			
Regulations (USA/FCC/Canada)	USA: FCC 47 CFR Part 15C, Section 15.247 Canada: ISC RSS139			
Warranty	3 years			

Comcodes

ORiNOCO PC Cards

848 441 481	(FCC); WEP; Silver
848 441 556	(FCC); 128RC4; Gold

ORiNOCO PC Card Accessories

848 072 559	ISA adapter card (without PC Card)
848 463 055	PCI adapter card (without PC Card)
848 072 633	Indoor Range Extender antenna (2.5 dBi)

Orinoco Adapter Cables and Accessories by Hyperlink Technologies

CA-WL2CABLE1	Orinoco to N-Male Adapter Cable 1.5m
CA-WL2CABLE4	Orinoco to N-Male Adapter Cable 19"

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Hyperlink manufactures a complete line of Orinoco antennas, amplifiers and accessories

Acronyms

IEEE   — Institute of Electrical and Electronics Engineers
ISA   — Industry Standard Architecture
PCI   — Peripheral Component Interconnect
SOHO   — Small Office Home Office
WECA — Wireless Ethernet Compatibility Alliance
WEP   — Wired Equivalent Privacy

Key Advantages of the ORiNOCO PC Card

- One single card operates with all ORiNOCO family access points, for instant access in every environment.
- Provides Ethernet-equivalent network throughput with the reliability you expect from Bell Labs.
- Consumes very little power, making it ideal for mobile units where long battery life is essential.
- Provides excellent coverage and range, lowering overall network equipment costs
- Offers automatic rate selection: 11 Mbit/s, 5.5 Mbit/s, 2 Mbit/s and 1 Mbit/s
- For desktops, Lucent offers an ISA and PCI adapter. Combined with the ORiNOCO PC Card, the adapter allows you to add or relocate networked desktop computers, without having to patch wires or run new cables.

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