



ORiNOCO™ 11b PCI Adapter



ORiNOCO wireless technology is the freedom to build a wireless LAN in your home, small office or enterprise Anytime. Anywhere. And any way you want. The ORiNOCO 11b PCI Adapter simply sits in a free PCI slot. Once locked on the board, the 11b PCI Adapter forms a Wireless Network Interface Card (NIC). The 11b PCI Adapter extends wireless LAN access to desktop PCs and is compatible with all IEEE 802.11b compliant wireless LAN systems.

Incredibly easy to use

The ORiNOCO 11b PCI Adapter provides wireless LAN access for desktop computers equipped with an available PCI slot. The ORiNOCO 11b PCI Adapter is controlled by a single driver that makes it easy to install and easy to use. The ORiNOCO 11b PCI Adapter is supplied with an ORiNOCO PCMCIA Card.

Bus mastering guarantees optimal PCI Bus performance

The 11b PCI Adapter implements a DMA controller (Direct Memory Access) to optimize data transfer between computer memory and the 11b PCI Adapter. This implementation of Bus Mastering reduces PCI Busload from approximately 30% to approximately 6%.

“Wake on LAN” support

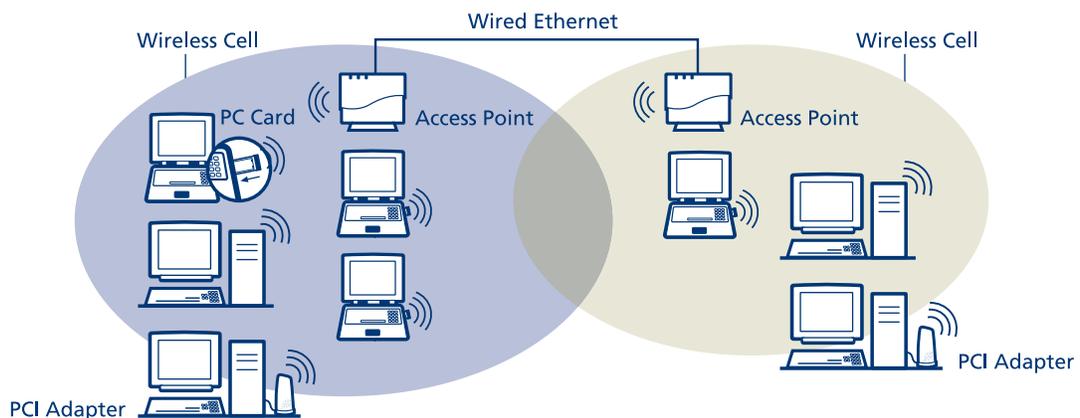
“Wake on LAN,” a desktop PC remote management feature, is supported. The 11b PCI Adapter can be set to constantly monitor the wireless LAN even when the desktop PC is switched off. The PC will boot up to enable remote management when the 11b PCI Adapter receives a “Magic Packet.”

PC Card lock

The 11b PCI Adapter is equipped with a lock to prevent the removal of the PC Card after installation, making it difficult to remove the PC Card without first having to open the PC.

ORiNOCO 11b PCI ADAPTER FEATURES

- 11b PCI Adapter seen as one device by the PC
- Single driver support for 11b PCI Adapter
- Bus Mastering (DMA) for optimal Bus performance
- Plug-and-Play functionality
- Support for PCI v2.2, 32-bit, 33 MHz Bus
- Works with 3.3V, 5V and 3.3/5V PCI v2.1 and v2.2 slots
- Based on QuickLogic QL5332 Programmable PCI Controller
- Confirms to IEEE802.11 and IEEE802.11b specification
- WHQL certification for Windows operating systems
- Meets requirements of PC 2001 System Design Guide
- Supports external antenna for improved signal in difficult locations



ORINOCO 11b PCI Adapter Specifications

RADIO CHARACTERISTICS

| | |
|-----------------------|----------------------------------------------------|
| Frequency | 2400 – 2483.5 MHz |
| Modulation Technique | Direct Sequence Spread Spectrum (CCK,DQPSK, DBPSK) |
| Spreading | 11 – chip Barker Sequence |
| Media Access Protocol | CSMA/CA with ACK |
| Bit Error Rate (BER) | Better than 10^{-5} |
| Nominal Output Power | 15 dBm |

| RANGE (METERS/FT) | 11 MBIT/S | 5.5 MBIT/S | 2 MBIT/S | 1 MBIT/S |
|------------------------------|---------------|---------------|----------------|----------------|
| Open | 160m (525 ft) | 270m (885 ft) | 400m (1300 ft) | 550m (1750 ft) |
| Semi-open | 50m (165 ft) | 70m (230 ft) | 90m (300 ft) | 115m (375 ft) |
| Closed | 25m (80ft) | 35m (115 ft) | 40m (130 ft) | 50m (165 ft) |
| Receiver Sensitivity dBm | -82 | -87 | -91 | -94 |
| Delay Spread (at FER of <1%) | 65ns | 225ns | 400ns | 500ns |

PHYSICAL SPECIFICATIONS

| | |
|------------|-------------------------------------------------------|
| Dimensions | 141 x 92 mm |
| Weight | 69.5 g excluding PC Card 124.5 g including PC Card |

ENVIRONMENTAL SPECIFICATIONS

| | TEMPERATURE | HUMIDITY (NON CONDENSING) |
|-----------|--------------|---------------------------|
| Operating | 0°C – 55°C | 95% |
| Storage | -40°C – 80°C | 95% |

ELECTRICAL SPECIFICATIONS

| | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Supply Voltage | 3.3 V DC (+/-0.3 V) or 5 V DC (+/-0.25 V) from PCI bus | |
| Power Consumption PC Card | <1.8 W | |
| Wake up time for Wake-on-LAN | >10 ms | |
| Current (operational) 11b PCI Adapter with PC Card | <375 mA (from Vaux) | |
| Current (standby) 11b PCI Adapter with PC Card | Configured for Wake-on LAN < 375 mA (from aux) – D3cold < 375 mA (from Vcc) – D3hot | Not configured for Wake-on-LAN < 20 mA (from Vaux) – D3cold < 20 mA (from Vcc) – D3hot |

LEDs

| | |
|--------|---------------------------|
| 2 LEDs | Power Network Activity |
|--------|---------------------------|

OPERATING SYSTEMS

Windows XP, Windows 2000, including Windows 2000 SP1, Windows Millennium Edition (Me), Windows 98 and Windows 98 SE, Windows 95, Windows NT4, SP3, SP5 and SP6, Windows NT4 (with 3rd party extensions for example Softwex DeskPower Controller), MS-DOS

MTBF

115,000 hours for PCI Adapter with PC Card, based on a workload of 8760 hours/year (continuous operation) within operating conditions. The card is guaranteed for a minimum of 100 insertions in a PCI slot.

WARRANTY

3 years

PACKAGE CONTENTS

- PC Card
- Getting Started Guide
- Installation Software CD-ROM

ORDERING INFORMATION

8422 - ORINOCO World 11b PCI Adapter Gold

