



## ORiNOCO 11b Client PC Card Specifications

### INTERFACE

PCMCIA

### RADIO CHARACTERISTICS

|                           |  |
|---------------------------|--|
| Frequency                 | 2400 - 2483.5 MHz  |
| Modulation Techniques     | Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)                  |
| Spreading                 | 11-chip Barker Sequence  |
| Media Access Protocol     | CSMA/CA (Collision Avoidance) with ACK                               |
| Bit Error Rate (BER)      | Better than $10^{-5}$  |
| Nominal Output Power      | 15 dBm   |
| Power Consumption PC Card | Doze mode – 9 mA<br>Receiver mode – 185 mA<br>Transmit mode – 285 mA |

| RANGE (METERS/FT)            | 11 MBIT/S     | 5.5 MBITS     | 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 (80 ft)   | 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 | 117.8mm X 53.95mm X 8.7mm (PC Card) |
| Weight     | 55 gram                             |

### ENVIRONMENTAL SPECIFICATIONS

|           | Temperature | Humidity             |
|-----------|-------------|----------------------|
| Operating | 0-55° C     | 95% (non condensing) |
| Storage   | -20-75° C   | 95% (non condensing) |

### POWER SUPPLY

Voltage 5VDC from host ( $\pm 0.2V$ )

### LEDS

2 LEDs: Power  
Network Activity

### OPERATING SYSTEMS

Windows 98/2000, Me and XP

### MTBF

150,000 hours based on workload, of 2040 hours/year (continuous operation), within operating conditions

### WARRANTY

3 years

### PACKAGE CONTENTS

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

### ORDERING INFO

|      |                                   |
|------|-----------------------------------|
| 8420 | ORINOCO 11b Client PC Card Gold   |
| 8421 | ORINOCO 11b Client PC Card Silver |

### RELATED PRODUCTS

AP-4000, AP-2500, AP-2000, AP-600, BG-2000  
Range Extender Antenna (2.5 dBi)

