ORiNOCO™
USB Client

High-Speed Wireless Internet Access and Networking for Desktops

Wireless Connectivity Made Easy

Lucent Technologies ORiNOCO USB Client provides high-speed (11 Mbit/s) wireless Internet Access and networking for USB enabled desktops anywhere, anytime. The USB Client connects directly to the desktop and is easy to install.

Benefits Begin Immediately

It's Easy – Users can have wireless connectivity simply by plugging the USB Client into a spare USB connector and installing the software on a desktop PC or notebook. That means…

• No desktop bus card installation

• No looking for an ISA or PCI slot

• No dealing with changing IRQs to avoid device conflicts

• No need for a separate power supply

It's Fast – The access point, residential gateway, or any other

802.11b compliant access point simply sends the radio signals to the USB Client. The USB Client receives them and transmits the signals to the desktop PC via the USB connector. Thus, when in reach of the residential gateway or access point, the USB Client provides high-speed wireless (11 Mbit/s) Internet access and networking.

It's Cost-effective – The USB Client doesn't require additional wiring.

It's Secure to – The USB Client Silver supports wired equivalent privacy (WEP), using a 64-bit key. The Gold version provides enhanced security with a 128-bit key, using RC4 encryption.
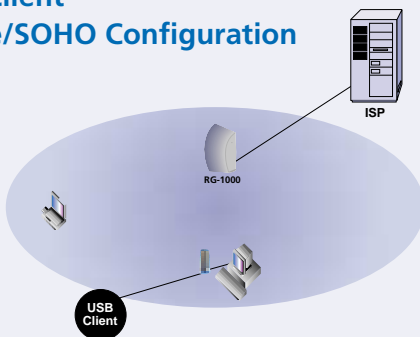
It's Powerful – Depending on the nature of surrounding structures, the USB Client provides a wireless range of 150m at 11 Mbit/s. For connections over longer distances, three automatic fall-back rates (5.5, 2 and 1 Mbit/s) provide improved range.
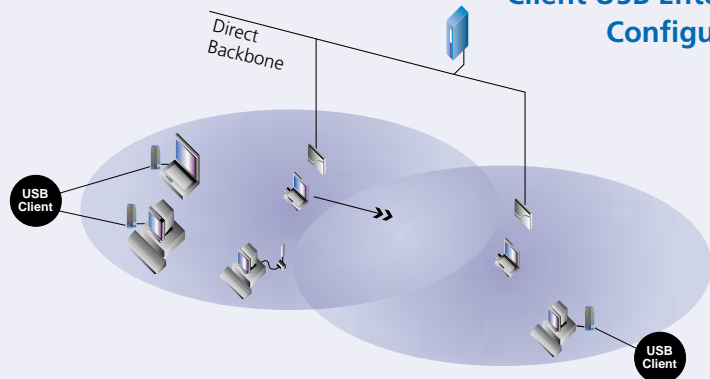
Industry-Wide Interoperability and Compliance

The ORiNOCO USB Client is interoperable with other manufacturers' high-speed IEEE 802.11b (Wi-Fi) compliant systems. It's compatible with Lucent's previous 2 Mbit/s and Turbo products. The USB Client works with ORiNOCO Enterprise and Home/SOHO infrastructure products.

USB Client Home/SOHO Configuration

ISP

RG-1000

USB Client

Client USB Enterprise Configuration

Direct Backbone

USB Client

USB Client

YOUR MOBILE BROADBAND CONNECTION

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THE NEW WAVELAN

- The USB client allows you to add or relocate networked desktop computers, without having to patch wires or run new cables.

- One single client operates with all ORiNOCO family access points, for instant access in every environment.

- Provides Ethernet-equivalent network throughput with the reliability you expect from Lucent Technologies Bell Labs.

- 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

ORiNOCO USB Client Specifications

Frequency Band	2400-2483.5 MHz			
Numbers of Selectable Sub-channels	11 worldwide certified (FCC/ETS/JP/FR)			
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	USB			
Dimensions (LxWXH)	63 mm X 89 mm X 145 mm			
Weight	170 grams			
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	Doze mode – 10 mA	Receiver mode – 245 mA	Transmit mode – 360 mA	
Power Supply	5V			
Temperature Range (operational)	0-40° 95% max. humidity (non condensing)			
Compatibility	Windows® 98/98 SE/2000/Millennium Edition (NDIS 5)			
Standards	IEEE 802.11b			
Regulations	Europe/APA: ETS 300-328, CE Marked USA: FCC 47 CFR Part 15C, Section 15.247 Canada: ISC RSS139 Japan: MPT Radio Regulations			
Warranty	1 year			

Comcodes

ORiNOCO USB Client

848 623 856	Silver (World)
848 623 864	Gold (World)

Acronyms

IEEE	—	Institute of Electrical and Electronics Engineers
IRQs	—	Interrupt Requests
ISA	—	Industry Standard Architecture
PCMCIA	—	Personal Computer Memory Card International Association
RG	—	Residential Gateway
SOHO	—	Small Office/Home Office
USB	—	Universal Serial Bus
WEP	—	Wired Equivalent Privacy
Wi-Fi	—	Wireless Fidelity

WiFi™

For additional information, please contact your Lucent Technologies Sales Representative.

You can also visit our web site at http://www.lucent.com or call 1-800-928-3526.

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