ORiNOCO™ Outdoor Router System

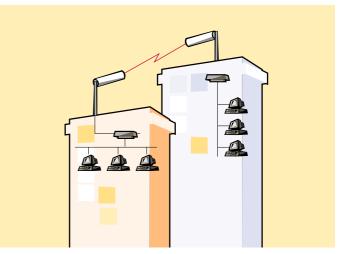
High Speed Fixed Wireless Data Networking

High speed data networking system for point-to-multipoint and point-to-point links operating in the 2.4 GHz band. The system includes the ORINOCO COR-1100 Central Outdoor Router, the ROR-1000 Remote Outdoor Router and the Outdoor Router Client (ORC).

- Creates a PtP system linking two LANs, using 2 ROR's
- Creates a PtMP system using one COR and up to 16 ROR's per channel, up to 3 collocated channels are possible
- ISP's can create a wireless network providing Internet access to residential customers operating on Windows 95,98, or NT desktop or laptop computers, using ORC software and ORiNOCO PC Cards
- Three co-located COR's connect up to 96 customers using ORCs
- Range of up to 16 miles (26 km)

- With a data rate of 11 Mbps and 5.5 Mbps, the system is faster than an E1/T1 data link
- Sophisticated dynamic polling mechanism avoids air collisions
- 10/100Base-T Ethernet interface allows integration in both 10 and 100 Mb/s Ethernet environments
- Highly secure system using data encryption levels of 64- bit WEP and 128 bit RC4, Mac Address based Access Control Table, and System Access Pass Phrase
- Standard IP Routing enables multiple LANs with different IP-Subnets enabling connection and set up of secure separate networks, allowing easy additions of wireless components to an existing wired network
- Bandwidth management allows network managers to set maximum data throughput pipes in ORC with settings of 64k, 128k, 256k, 384k, 512k and Max.
- Transparency to VLAN tags allows network managers to include Outdoor Routers in their Virtual LAN environment
- Creates in-building wireless LAN using Access Point roaming functionality on the 2nd PC card slot
- Remote Software Upgrades and Configuration of ROR's and COR's from any node in the network





YOUR MOBILE BROADBAND CONNECTION



ORINOCO Outdoor Router System

Hardware:		COR-1100 & ROR-	1000				
Dimensions		261mm x 185mm x 50mm (10.2 in x 7.3 in x 2 in)					
Temperature range		0-40 degrees Celsius					
Humidity		20% to 80% relative humidity					
Weight		1.75 kg (3.86 lb.)					
Wired LAN Connection		Ethernet 10/100Base-T (RJ-45)					
Wireless LAN connection		2 PCMCIA slots for ORiNOCO PC Cards					
LED indicators		4 LEDs: Power, Ethernet LAN Activity, Wireless LAN Activity Slot A and Slot B					
Wired LAN protocol		IEEE 802.3 (CSMA/CD)					
Power Supply		Integrated module; Autosensing 100/240 VAC 50/60 Hz; 0.2A					
Functionalit		integrated module, P	tutosensing 100/240 VF	10 70/00 1	12, 0.2A		
Features		11 Mbps, 5.5 Mbps, 2 Mbps and 1 Mbps Data Rate Adaptive Dynamic Polling Data Compression Authentication based MD-5 CHAP MAC Address Table				Protocol Filtering for bridged protocol Data Encryption (Via PC Card): • 64 WEP • 128RC4 Transparent to VLAN tags Access Point Roaming IP Routing (RIP 1 compliant)	
Warranty		l year					
Hardware:		ORINOCO PC Card					
Dimension		PCMCIA Type II					
Data Rate		11 Mbps, 5.5 Mbps, 2 Mbps and 1 Mbps Data Rate					
Modulation technique		Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)					
Spreading		CCK 11-chip Barker sequence					
Media Access Protocol		TurboCELI.					
Output Power		8 dBm (ETS, FR) 15 dBm (FCC)					
No. of Selectable		ETS-13 France-4					
Subchannels		FCC-11					
Antenna Connector		Proprietary connector					
Data Rate		11 Mb/s	5.5 Mb/s		2 1	Mb/s	1 Mb/s
Typical Receiver Sensitivity@BER 10 ⁻⁵		-82 dBm	-87 dBm			l dBm	-94 dBm
Delay Spread@BER 10 ⁻⁵		65ns	225ns	40		0ns	500ns
Warranty		3 years					
			Non Regulated Co	nfigura <u>ti</u>	ons		
Antennas		24 dBi	14 dBi	12 dBi		10 dBi	7 dBi
24 dBi	(1 Mb/s)	26.2 km/16.3 mi	19.0 km/11.8 mi		n/10.7 mi	15.8 km/9.7 m	
	(2 Mb/s)	24.5 km/15.2 mi	16.9 km/10.5 mi	15.4 km/9.6 mi		14.1 km/8.8 m	
	(5.5 Mb/s)	21.8 km/13.5 mi	14.4 km/8.9 mi	13.1 km/8.1 mi		12.0 km/7.5 m	
	(11 Mb/s)	19.4 km/12.0 mi	12.8 km/8.0 mi	11.2 km/7.0 mi		10.2 km/6.3 m	
14 dBi	(1 Mb/s)	N/A	12.0 km/7.5 mi	10.9 km/6.8 mi		9.5 km/ 5.9 mi	
	(2 Mb/s)	N/A	10.2 km/6.3 mi	9.3 km/ 5.8 mi		8.1 kmi/5.0 mi	
	(5.5 Mb/s) (11 Mb/s)	N/A N/A	8.7 km/5.4 mi 7.1 km/4.4 mi	7.6 km/4.7 mi 6.1 km/3.8 mi		6.6 km/4.1 mi 5.5 km/3.4 mi	5.5 km/3.4 mi 4.0 km/2.5 mi
	(11 1/10/5)		France Configuration		וווו ס.כ	J.J KIII/ 3.4 IIII	4.0 KIII/2.3 IIII
Antennas		Distance E13 and	14 dBi	12 dBi		10 dBi	7 dBi
	(1 Mb/s)	N/A	7.0 km/4.3 mi	6.9 km/4.3 mi		5.5 km/3.4 mi	4.0 km/2.5 mi
	(2 Mb/s)	N/A	5.0 km/3.1 mi	4.9 km/3.0 mi		4.0 km/2.5 mi	2.7 km/1.7 mi
				3.5 km/2.2 mi			
14 dBi	(5.5 Mb/s)	N/A	3.5 km/2.2 mi	3.5 km	/2.2 mi	2.7 km/1.7 mi	1.9 km/1.2 mi

The distances referenced here are approximations and should be used for estimation only.

Maximum ranges are based on a clearance of 10 meters, without any obstacles in the path of the antenna beam and using standard Lucent Technologies accessories including Antenna Cable Type (6m/20 ft.)

For additional information, please contact your Lucent Technologies Sales Representative. You can also visit our web site at http://www.lucent.com/orinoco or call **1-800-928-3526**

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