

# ORINOCO Outdoor Router System

<b>Hardware:</b>	<b>Central &amp; Remote Outdoor Router</b>
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 10Base-T (RJ-45) and 10Base-2 (BNC)
Wireless LAN connection	2 PCMCIA slots for WaveLAN 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

<b>Functionality:</b>															
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Warranty	1 year														

<b>Hardware:</b>	<b>ORINOCO Fixed Wireless PC Card</b>			
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	11-chip Barker sequence, CCK			
Media Access Protocol	TurboCELL			
Output Power	8 dBm (ETS, FR) 15 dBm (FCC)			
No. of Selectable Subchannels	ETS-13	France-4		FCC-11
Antenna Connector	Proprietary connector			
Data Rate	11 Mb/s	5.5 Mb/s	2 Mb/s	1 Mb/s
Receiver Sensitivity@BER 10 <sup>-5</sup>	-82 dBm	-87 dBm	-91 dBm	-94 dBm
Delay Spread@BER 10 <sup>-5</sup>	65ns	225ns	400ns	500ns
Warranty	3 years			

Distance FCC and Non Regulated Configurations						
Antennas		24 dBi	14 dBi	12 dBi	10 dBi	7 dBi
24 dBi	(1 Mb/s)	26.2 km/16.2 mi	19.0 km/11.8 mi	17.3 km/10.8 mi	15.8 km/9.8 mi	14.1 km/8.8 mi
	(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 mi	12.0 km/7.5 mi
	(5.5 Mb/s)	21.8 km/13.5 mi	14.4 km/9 mi	13.1 km/8.1 mi	12.0 km/7.5 mi	10.2 km/6.3 mi
	(11 Mb/s)	19.4 km/12 mi	12.8 km/8 mi	11.2 km/7 mi	10.2 km/6.3 mi	8.7 km/5.4 mi
14 dBi	(1 Mb/s)	12.0 km/7.5 mi	10.9 km/6.8 mi	9.5 km/ 5.9 mi	8.1 km/5 mi	7.1 km/4.4 mi
	(2 Mb/s)	10.2 km/6.3 mi	9.3 km/ 5.8 mi	8.1 kmi/5 mi	6.6 km/4.1 mi	5 km/3.1 mi
	(5.5 Mb/s)	8.7 km/5.4 mi	7.6 km/4.7 mi	6.6 km/4.1 mi	5.1 km/3.2 mi	3.5 km/2.1 mi
	(11 Mb/s)	7.1 km/4.4 mi	6.1 km/3.8 mi	5.1 km/3.2 mi	3.6 km/2.2 mi	2.5 km/1.5 mi

Distance ETS, France and Japan configurations						
Antennas			14 dBi	12 dBi	10 dBi	7 dBi
14 dBi	(1 Mb/s)	N/A	6.4 km/4 mi	6.3 km/3.9 mi	5.2 km/3.2 mi	3.7km/2.3 mi
	(2 Mb/s)	N/A	4.8 km/3 mi	4.7 km/2.9 mi	3.7 km/2.3 mi	2.6 km/1.6 mi
	(5.5 Mb/s)	N/A	3.4 km/2.1 mi	3.3 km/2 mi	2.6 km/1.6 mi	1.9km/1.2 mi
	(11 Mb/s)	N/A	2.4 km/1.5 mi	2.3 1.4 mi	1.9 km/1.2 mi	1.2 km/8 mi

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

Maximum ranges are based on Clear Line of Sight conditions, 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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