

SPECIFICATIONS

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Note: Performance specifications are nominal and subject to change without notice.

7.1 Specifications For The 9150 Wireless Gateway

7.1.1 PC Card Radios



Important: For sites in Canada, Lucent WaveLAN 802.11 and Proxim Range-LAN 802.11 radios require a radio licence, unless they are installed totally within a building. (The user shall obtain this licence from Industry Canada.)

TRX7370 Narrow Band DSP

Transmit Power	2.0 Watts (North America) 0.5 to 2.0 Watts (International)
Frequency Range	403 to 512 MHz
Data Rate	9600 bps
No. of Channels	20

TekLAN 902 MHz DS Spread Spectrum (TRX7410)

Transmit Power	0.25 Watts (United States) 1.0 Watts (Canada and Australia)
Frequency	902 MHz
Data Rate	122 kbps
No. of Channels	7

TekLAN 2.4 GHz DS Spread Spectrum (TRX7425)

Transmit Power	0.1 Watt
Frequency Range	2.412 to 2.462 GHz
Data Rate	1 Mbps
No. of Channels	7

Proxim RangeLAN802 IEEE 802.11 FHSS 2.4 GHz (TRX7440)

Transmit Power	100 mW, 400 mW (XR)	
Frequency	2.4 GHz	
Data Rate	2 Mbps	
No. of Channels	79 (FCC, ETSI)	35 (FR)
	23 (JP)	27 (SP)

Lucent WaveLAN IEEE 802.11 DSSS 2.4 GHz (TRX7430)*

Transmit Power	32 mW	
Frequency Range	2.4 to 2.4835 GHz	
Data Rate	2 Mbps	
No. of Channels	11 (FCC)	13 (ETSI)
	4 (FR)	1 (JP)
	2 (SP)	

* For regulatory information concerning the Lucent WaveLAN PC Card, please see [page 148](#).

7.1.2 Power Requirements

Input voltage	100 - 240 V
Frequency	50/60 Hz
Current	1.0 A

7.1.3 Physical Description

Enclosure	Bayer Makroblend EL-700 (PC/PET blend), jet black in colour, texture to MT-11030 or equivalent	
Dimensions	Nominal	36.3 x 26.2 x 7.4 cm (14.3 x 10.3 x 2.9 in.)
	Maximum	36.8 x 26.7 x 7.6 cm (14.5 x 10.5 x 3.0 in.)
Weight	Nominal	2.9 kg (6.5 pounds)
	Maximum	3.2 kg (7.0 pounds)

7.1.4 Processor And Memory

Power PC 860DC, 40 MHz Processor
16 MB DRAM
2 MB Flash ROM

7.1.5 Environmental Requirements

Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Rel. Humidity	10% to 90% (Non-condensing)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Dust and Rain	IEC 529 IP42

7.1.6 Network Interfaces

On-Board Ethernet	10Base5 10Base2 10Base-T
Token Ring	Madge Token Ring Smart 16/4 Ringnode Adapter Type II PC card, 4 or 16 Mbps

7.1.7 SLIM Cards

Options	RS-232/20 mA Current Loop Optically isolated RS-232 Plus
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7.1.8 Approvals

FCC Part 15, subpart B, Class B
Electrical Safety: CSA/NRTL, TÜV, CB Scheme
CE Mark
ETS 300 113
ETS 300 086
ETS 300 220
ETS 300 328

Lucent WaveLAN PC Card Regulatory Information

The IEEE 802.11 WaveLAN PC Card must be installed and used in strict accordance with the manufacturer's instructions. This device complies with the following radio frequency and safety standards.

Canada - Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Europe - EU Declaration of Conformity

This device complies with the specifications listed below, following the provisions of the EMC Directive 89/336/EEC:

- ETS 300-826 General EMC requirements for Radio equipment.
- ETS 300-328 Technical requirements for Radio equipment.

USA - Federal Communications Commission (FCC)

This device complies with Part 15 of FCC Rules. Operation of the devices in a WaveLAN System is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference that may cause undesired operation.



Important: *Exposure to Radio Frequency Radiation.*

The radiated output power of the IEEE 802.11 WaveLAN PC Card is far below the FCC radio frequency exposure limits. Nevertheless, the WaveLAN PC Card shall be used in such a manner that the potential for human contact during normal operation is minimized. When using this device in combination with WaveLAN Outdoor Antenna products, a certain separation distance between antenna and nearby persons has to be kept to ensure RF exposure compliance. Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Lucent Technologies is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this IEEE 802.11 WaveLAN Kit, or the substitution or attachment of connecting cables and equipment other than specified by Lucent Technologies.

The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

For country-specific approvals, please consult the flyer “Radio Certification Information” that is included with the 9150 Wireless Gateway.

