Xircom Wireless LAN Module for Palm Regulatory and Safety Notices

Product Specifications

Model
PWE1130 Xircom Wireless LAN Module for Palm™ Handhelds

System Requirements
Palm™ m500 or m505 handheld
Palm® Operating System version 4.0 or later

Standard
IEEE 802.11b high-rate standard for Wireless Local Area Networks

Network Architecture Types
Supports peer-to-peer networking and communication to wired networks via access points

Data Rates Supported
1,2, 5.5 and 11 Mbpss

Modulation
11 Mbps and 5.5 Mbps: CCK;
2 Mbps: DQPSK; 1 Mbps: DBPSK

Wireless Medium
Direct Sequence Spread Spectrum (DSSS)
Media Access Protocol
Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Security
Supports 0, 40 or 128-bit WEP (Wired Equivalent Privacy) encryption

Frequency Band
2400-2483.5 MHz

Operating Channels
11 channels (US, Canada)
13 channels (ETSI)
4 channels (France)
14 channels (Japan)

Simultaneous Channels
Three non-overlapping channels

Roaming
IEEE 802.11b compliant

Typical Range at 11 Mbps
Up to 300 ft (90 m) in open environments and 100 ft (30 m) in office environments

Typical Range at 1 Mbps
Up to 1000 ft (300 m) in open environments and 300 ft (90 m) in office environments

Battery
Li-ION rechargeable (2 hours of continuous transmission)

LED Indicators
Active, Status and Charging

Certifications
FCC Class B, FCC Part 15.247, Canada ICES Class B, CE, UL, CSA
Call for other information outside the USA

Warranty
One-year limited warranty

812-pweregs-001A

FCC Regulations - Part 15 Declaration of Conformity (DoC)
Xircom, Inc. declares that the equipment described in this document is within the requirements of the Code of Federal Regulations listed below:
Title 47 Part 15, Subpart B, Class B for a digital device.
This declaration is based upon compliance of the Xircom Wireless LAN Module for Palm Handhelds model PWE1130 to the above standards. Xircom has determined that this model has been shown to comply with the applicable technical standards if no unauthorized change is made in the equipment and if the equipment is properly maintained and operated.
These units are identical to the units tested and found acceptable with the applicable standards. Records maintained by Xircom continue to reflect that units being produced under this Declaration of Conformity, within the variation that can be expected due to quantity production and tested on a statistical basis, continue to comply with the applicable technical standards.
R.W. Bass, Vice President, Operations, Xircom, Inc., 2300 Corporate Center Drive, Thousand Oaks, California 91320 U.S.A.
Federal Communications Commission Information for the User
This device complies with Part 15 rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and radiates radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference. However, there is no guarantee that interference will not occur. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference by one of the following measures:

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

CAUTION: The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to said product not expressly approved by Xircom could void the user's authority to operate this device.

Canadian Department of Communications Industry Canada (IC) Notice

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

This device complies with Class B Limits of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The device is certified to the requirements of RSS-102 and RSS-210 for 2.4 GHz spread spectrum devices. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office.

European Community - CE Mark
Declaration of Conformity

Xircom, Inc. declares that the equipment described in this document is in conformance with the requirements of the European Council Directive listed below:

73/23/EEC Low Voltage Directive with Amendment 93/68/EEC

89/336/EEC EMC Directive with Amendments 92/31/EEC and 93/68/EEC

1999/5/EC Radio and Telecommunications Terminal Equipment Directive

This declaration is based upon compliance of the product to the following standards:

ETS 300 328/A1 (1997-07, Edition 2) Radio Equipment and Systems (RES); wideband transmission systems; technical characteristics and test conditions for data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques

ETS 300 826 (1997-11, Edition 1) Electromagnetic compatibility and radio spectrum matters (ERM); electromagnetic compatibility (EMC) standard for 2.4 GHz wideband transmission systems and high performance radio local area network (HIPERLAN) equipment

EN 60950 1992 2nd Edition (A1 - A4, A11) Safety of Information Technology Equipment, Including Electrical Business Equipment

Warning: Due to the fact that the frequencies used by 802.11b are not yet harmonized, certain Xircom 802.11b products are designed for use only in specific countries, and may not function properly in a country other than the country of designated use. As a user of these products, you are responsible for ensuring that the products are used only in the countries for which they were intended.
The following bandwidth restrictions are in effect:

France	2446.5 - 2483.5 MHZ
Other EU countries	2400 - 2483.5 MHZ

Product Descriptions: Xircom Wireless LAN Module for Palm Handhelds model PWE1130
R.W. Bass, Vice President, Operations, Xircom Europe, Middle East, and Africa, Veldkant 31, 2550 Kontich, Belgium.

Japan Regulatory Notices

TELEC

This equipment has been certified to confirm with the technical regulations of the specified radio equipment under the radio law of Japan. If you open the case to modify the circuit, you may be punished by law.

In the frequency bandwidth of this equipment, industrial device, scientific device, medical device like microwave oven, licensed premises radio station and non-licensed specified low power radio station for mobile object identification system (RF-ID) that is used in product line of factories are used.

1. Please make sure before using this equipment that no premises radio station and no specified low-power radio station of RF-ID are used in the neighborhood.
2. In case that RF interference occurs to licensed premises radio station of RF-ID from this equipment, please change promptly the frequency for use or stop emitting radio, and contact the number below and ask how to deal with it to avoid radio interference, such as setting of partitions.
3. Please contact the number below if you have a problem, such as interference from this equipment to specified low-power radio station of RF-ID. Contact: Xircom Japan Technical Support, 03-3407-1900.

JATE

The JATE approval number of this equipment is pending. See the hardware for the approval number.

Safety Notices

⚠ Caution! Use recommended battery charger. Follow manufacturer instructions to replace the battery.

Caution! Risk of explosion if battery is replaced by the incorrect type. Dispose of used batteries according to the manufacturer's instructions.

The FCC with its action in ET Docket 96-8 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC certified equipment. The Xircom Wireless LAN Module for Palm Handhelds meets the uncontrolled environmental limits found in OET-65 and ANSI C95.1, 1991. Proper operation of this radio according to the instructions found in this online user guide will result in user exposure that is substantially below the FCC recommended limits.

- Do not touch or move antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate a portable transmitter near unshielded blasting caps or in an explosive environment unless it is a type especially qualified for such use.
- Do not operate the radio or attempt to transmit date unless the antenna is connected; if not, the radio may be damaged.

Warning for handheld users: In order to comply with the FCC RF exposure limits, it is recommended, when using a handheld computer with a wireless Ethernet module, that the module's integrated antenna should not be positioned closer than 2 inches (5 cm) from your body or nearby persons for extended periods of time while it is transmitting (or operating). If the antenna is positioned less than 2 inches (5 cm) from the user, it is recommended that user exposure time be limited.

Explosive Device Proximity Warning

Warning: Do not operate your wireless network device near unshielded blasting caps or in an explosive environment unless the device has been modified to be especially qualified for such use.