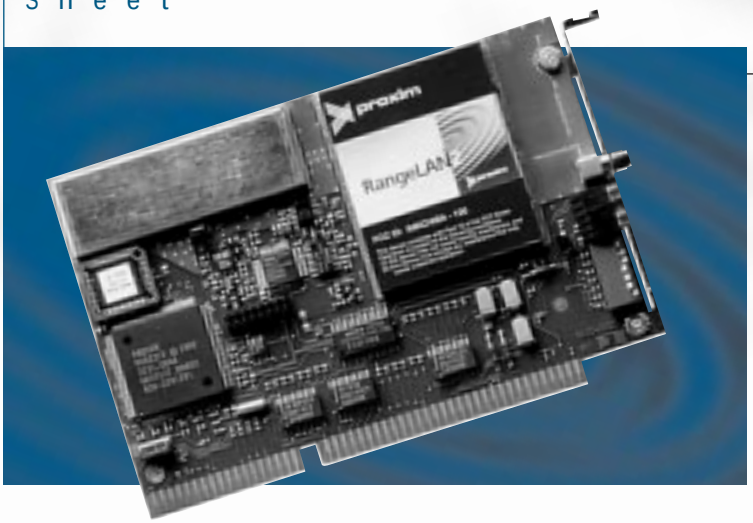
RangeLAN2™

7100 ISA Card

Wireless Connectivity for Desktop Computers

Data Sheet



Advantages

- **Long Range**
- **High Performance**
- **Easy to use**
- **Reliable**

Overview

The RangeLAN2 7100 ISA wireless LAN adapter is a long range, high performance wireless LAN adapter for AT-bus computers and servers. The 7100's data rate of 1.6 Mbps exceeds the data rate requirements of most standard PC applications, making it an ideal wireless platform for high-speed LAN environments. The RangeLAN2 family also delivers the longest range of any wireless product in its class—operating at a distance of up to 500 feet in typical office environments and up to 1000 feet in open space environments. In addition, the RangeLAN2 family also provides transparent access to standard wired LAN environments.

The RangeLAN2 7100 provides an easy-to-install wireless extension to existing wired client/server LANs for desktop locations that are difficult or expensive to wire. It can also be used as a standalone peer-to-peer networking solution in smaller companies or departments. With Proxim's unique spread spectrum architecture.

RangeLAN2 Architecture

Proxim is the worldwide leader in spread spectrum radio technology. Proxim's RangeLAN2 family sets a new standard for spread spectrum radio design excellence. RangeLAN2 is based on frequency hopping spread spectrum technology in the 2.4 GHz band. RangeLAN2's multi-channel approach enables 15 independent wireless LANs to operate within the same physical space, effectively increasing the aggregate capacity of RangeLAN2 networks by 15 times.

Applications

- *Desktop PC connectivity*
  - *Hard-to-wire office locations*
  - *Temporary moves*
  - *Older buildings*
  - *Small businesses, home offices*
  - *Classrooms, training centers*

proxim

RangeLAN2™

7100 ISA Card

Specifications

General

Bus interface	ISA bus
Range	Up to 500 feet (150 m) in typical office environments. Up to 1000 feet (300 m) in open spaces
Radio Data Rate	1.6 Mbps per channel, 800 Kbps fallback rate for extended range
Channels	Supports 15 independent, non-interfering virtual channels (frequency hopping patterns)
Certifications	Meets FCC Part 15 in the U.S.; ETSI ETS 300.328 and CE EMC-EEC in Europe; applicable MKK standards in Japan.
Compatibility	OpenAir™-compatibility ensures interoperability with the products of >20 Wireless LAN Interoperability Forum (WLIF) member companies
Warranty	1 year parts and labor (return to factory)

Network Information

Network Architecture	Supports ad hoc peer-to-peer networks and communication to wired Ethernet or Token Ring networks via Access Point(s)
Drivers Included	NDIS 3.1 (for Windows 95), ODI (for NetWare, Personal NetWare & others) and NDIS 2.1 (for TCP/IP & Microsoft networks)
Media Access Protocol	RangeLAN2 CSMA/CA (Proxim version of CSMA/CA optimized for spread spectrum radio; includes patented contention management protocol)
Error Detection/Correction	Spread spectrum encoding, decoding
Ethernet Standard Compliancy	Ethernet packet types
Roaming	Supports RangeLAN2 roaming for seamless roaming among RangeLAN2 Access and Extension Points
Domains	Up to 16 domains for simultaneous independent networks
Security	Hardware scrambling; Software encryption through 15 channels, 16 domains per network, >1 million encryption ID choices per domain

Radio

Frequency Band	2.4 GHz band. Frequency range varies by country
Radio Type	Frequency hopping spread spectrum (FHSS)
Output Power	100mW

Environmental

Temperature Range	-20 to 60 degrees centigrade
Humidity (non-condensing)	10 to 90% typical

Order Number

7100	ISA Card with antenna

proxim

Proxim, Inc

Corporate Headquarters
510 DeGuigne Drive
Sunnyvale, CA 94086 USA
Phone: 408-731-2700 / 800-229-1630
Fax: 408-731-3675
sales@proxim.com
www.proxim.com

Europe
4, avenue Morane Saulnier
78140 Velizy, France
Phone: +33 (0)1 30 70 61 18
Fax: +33 (0)1 30 70 61 19
europe@proxim.com
www.proxim.com

OpenAir 2.4

© 1999, Proxim, Inc. RangeLAN2 and Proxim are trademarks of Proxim, Inc. OpenAir is a trademark of the Wireless LAN Interoperability Forum (WLI Forum). All other trademarks are the property of their respective owners.

7680-0006 rev. E 6/99 CI/JA