RangeLAN2™
Ethernet and Token Ring Access Points

Wireless Mobile Access to Wired LAN Services

Data Sheet

Now Available with XR Technology

Advantages

- **Fast**
  Delivers 1.6 Mbps data rate. Throughput optimization, a RISC processor, and line-speed filtering maximize performance.

- **Durable**
  Offers wide temperature range and robust mechanical design. Commercial-grade mounting options and heated NEMA enclosures available.

- **Large Coverage Area**
  500 mW XR technology delivers widest coverage area possible.

- **Easy to Manage**
  Handle all your management tasks via software from your server or remote configuration location. Never visit remote access points again.

- **Easy to Install**
  Units include site survey software. Wall and cubicle brackets and a wide variety of antenna and cabling options are available.

Providing Mobile Connectivity to your Ethernet or Token Ring LAN

RangeLAN2 Ethernet and Token Ring Access Points (APs) provide standards-based connectivity from your wired Ethernet or Token Ring network to your wireless RangeLAN2 or other OpenAir™-certified product. With comprehensive management features, easy installation, exceptional durability and reliability, and outstanding performance, Proxim access points meet your requirements for industrial-strength wireless networking equipment.

RangeLAN2 APs use Proxim's patented frequency-hopping spread-spectrum (FHSS) technology. This technology underpins the Proxim products that have been awarded *PC Magazine's* Editors' Choice and *LAN Magazine's* Product of the Year. Little wonder more OEM solutions providers have standardized on RangeLAN2 technology than all other wireless LAN solutions combined.

Multiple Management Options to Meet Your Needs

Manage your RangeLAN2 Access Points using the wired network interface, the wireless network, a direct serial link, or even a dial-up phone line (modem not included). Your choice of telnet, web browser, or SNMP interfaces let you remotely monitor traffic, set configuration parameters, and upgrade software. Advanced diagnostics help isolate problems. RangeLAN2 APs support many standard SNMP agents and Proxim's enterprise MIB for comprehensive management. SNMP traps provide notifications for fault conditions or security violations. The extensive management features available on RangeLAN2 APs could make installation your first and last physical visit to the unit.

Designed for Industrial Environments

RangeLAN2 APs are small, lightweight units, rugged enough to be placed in the harshest of industrial environments. RangeLAN2 APs bring connectivity to your most difficult locations with their wide temperature window and robust mechanical design (no moving parts). In hospitals or offices, RangeLAN2 AP styling is at home mounted on a cubicle wall or hidden behind ceiling tiles. An optional NEMA 4 enclosure further extends your AP placement options.

Optimized Bandwidth

All RangeLAN2 APs can filter traffic at full wire speeds, keeping unnecessary traffic off the airwaves and optimizing performance on busy networks. A variety of protocol and broadcast filters let network designers further eliminate traffic from the wireless medium. Proxim APs tailor MAC-level contention management protocols to optimize throughput based on current network loads.

XR Technology Delivers Widest Coverage Possible

For the largest possible area coverage Proxim XR technology boosts radio output power to 500mW*. Available in both the Ethernet and Token Ring APs, XR technology can provide area coverage increases approaching 30% indoors and 100% outdoors. APs equipped with XR technology are fully compatible with all RangeLAN2 and OpenAir™ certified products. Enhanced receiver circuitry with XR-enabled APs allowing you to use existing clients while still reaping the benefits of increased range.

*XR technology may not be available in all regions due to local regulatory requirements

proxim

Specifications

General

Ethernet Architecture........................Transparent bridge

Token Ring Architecture Options.......
- Source routing—Multi-ring (wireless network is assigned a ring number)
- Source routing—Single ring (wireless network shares the wired ring number)
- Transparent—MAC-level learning bridge

Radio Data Rate ....1.6 Mbps

Channels ....Supports 15 independent, non-interfering "virtual channels" (hopping patterns)

Range (Standard Antenna) ....Up to 500 ft. (150 meters) radius indoors 1,000+ ft. (300+ meters) radius outdoors XR technology can improve area coverage at your facility by up to 30% indoors and up to 100% outdoors

Certifications....................................US—FCC Part 15, UL International—Contact Proxim for a list of currently certified countries

Compatibility ....Fully interoperable with all RangeLAN2 and OpenAir-certified products

Warranty..1 year parts and labor (return to factory)

Network Information

Ethernet Interface.............................10 BaseT/RJ45 plug; 10 Base2/BNC plug

Token Ring Interface ....STP/DB9 plug & UTP/RJ45 plug; 4 or 16 Mbps ring speed

Ethernet Filtering Rate......................14,880 pps (maximum Ethernet wireline rate)

Token Ring Filtering Rate ....
- 25,000 pps in multi-ring mode
- 25,000 pps in other modes for up to 3 vendor destination addresses
- 5,000 pps with hardware filtering disabled

Filters...
- Protocol Filters—IP, IPX, NetBEUI, DECNET, AppleTalk, Other
- Broadcast Traffic Filters—IP ARP, Novell RIP, SAP and LSP, Adjustable Bandwidth Allocation

Software Upgrades ....Downloadable over the network or serial port, automatically distributed to other 7520s and 7530s on the network

Roaming Domains ....Provides a choice of 16 domains. Multiple access points enable simultaneous networks

Management

SNMP Agents* ....Token Ring — Version 1 RFC 1213, 1493 (IEEE 802.1D MIB), 1525 (Source Routing MIB), 1231 (Token Ring MIB), Proxim Enterprise MIB
Ethernet— Version 1 RFC 1213, 1493 (IEEE 802.1D MIB), Proxim Enterprise MIB

SNMP Traps ....Cold start, link up, link down, authorization*

Authorization Tables ....Input lists of allowed or disallowed MAC addresses, preventing unauthorized access*

Other Management Interfaces..........
- Web browser-based RangeLAN2 Manager*
- Text-based menus via serial port or Telnet*

Physical Management Connections ....Phone line via customer-supplied modem; Token Ring or Ethernet; wireless network; direct cabled connection*

Wireless Network Management........Identification of wireless clients synchronized to the access point; radio and Ethernet/Token Ring statistics; link quality diagnostics

Radio

Frequency Band ....2.4 GHz frequency band, actual frequencies in use vary by country

Radio Type..Frequency Hopping Spread Spectrum (FHSS)

Radio Power Output..........................100 mW, 500mW with XR technology

Environmental

Temperature Range............................-20 to 60 degrees centigrade

Humidity (non-condensing) ....10 to 90%

Physical Specifications

Weight ....approx. 1.5 lbs (0.7 kg)

Size ....1.66" high x 6.54" long x 8.54" wide (42mm x 166mm x 217mm)

Input Voltage ....10 to 18 VDC
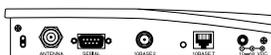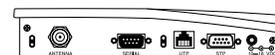
Ethernet AP   *Token Ring AP*

Accessories Included ....Power supply, 1dbi omnidirectional antenna and operating manual

Ordering Information

• **7510** RangeLAN2 Ethernet Access Point, 100mW	• **7520** RangeLAN2 Ethernet Access Point, 100mW	• **7530** RangeLAN2 Token Ring Access Point, 100mW
	• **7521** RangeLAN2 Ethernet Access Point XR, 500mW	• **7531** RangeLAN2 Token Ring Access Point XR, 500mW

* Not available on the 7510

*OpenAir*²·⁴