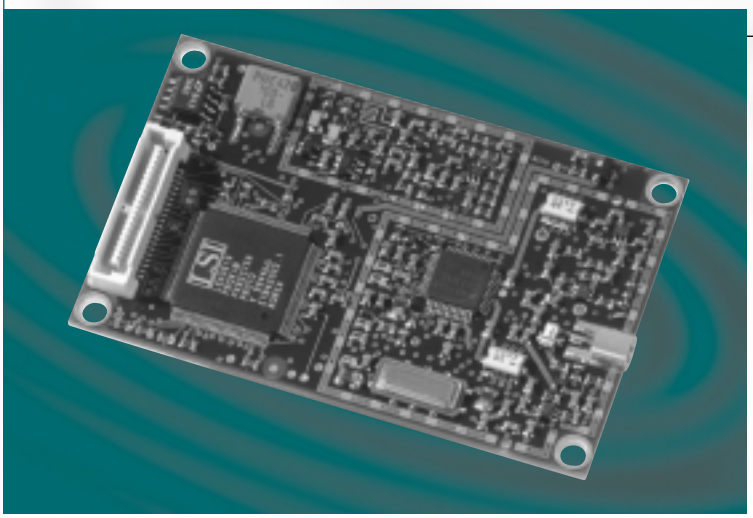
RangeLAN2™

6333 Micro Jr. Design-in Module

Smallest and Lightest Wireless LAN Module Designed for Integration

Data Sheet



Advantages

- **High Performance**
  Delivers data rate of 1.6 Mbps for responsive network connectivity
- **Lowest Power Consumption**
  Marathon power management delivers an average <5 mA current draw in doze mode, significantly extending battery life
- **Greatest Compatibility**
  Guaranteed interoperability with all OpenAir products
- **Pre-certified Modules Available**
  Only Proxim provides pre-certified modules, reducing your time to market

Proxim Has Taken a Good Thing and Made it Even Better

Keeping the same tiny form factor of its popular RangeLAN2 Micro Design-in Module, Proxim introduces the newest member to its RangeLAN2 family: The RangeLAN2 6333 Micro Jr. Design-in Module. The 6333 represents yet another example of Proxim's role as an innovator in the wirefree marketplace.

Low Power Consumption Results in Longer Battery Life

Proxim's 3.3V Micro Jr Design-in Modules consume up to 50% less power than the 5V modules currently in today's market. We realize that mobility is important to you, so extending the battery life extends the mobile functionality and, consequently, the value of the product for your customer.

Integration Made Easy

Rely on our expertise to assist your integration. Benefit from Proxim's wide array of OEM Services; including integration engineering support, certification assistance, and ongoing technical support. Proxim, the leading supplier of wirefree networks, continually innovates to ensure that we remain the partner that keeps you on the cutting edge of technology.

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RangeLAN2™

6333 Micro Jr. Design-in Module

Specifications

General

Electrical Interface	40-pin, ISA-style interface
Radio Data Rate	1.6 Mbps per channel, 800 Kbps backoff
Network Size Channels	Supports 15 orthogonal (non-interfering) co-located channels
Power Management	Transmit 250 mA Receive 175 mA Doze ≤ 5 mA Sleep ≤ 2 mA
Modulation	4FSK (BFSK in backoff mode)
Typical Range	Up to 500 feet (152.4 m) indoors; up to 1000 feet (304.8m) in open spaces; unlimited with transparent roaming
Voltage	3.3 V

Radio

Frequency Band	2.4 – 2.4835 GHz (ISM Band).
Radio Type	Frequency hopping spread spectrum (FHSS)
Output Power	+20 dBm EIRP with 2 dBi gain antenna
Antenna Connector	MMCX

Physical

Dimensions	1.65" L x 2.65" W x 0.23" H (0.31" height at connector); 42 mm L x 68 mm W x 6 mm H (8 mm height at connector)
Weight	< 0.7 ounces (20 grams)
Mating Connector	40-pin, vertical orientation

Environmental

Temperature Range	Operating: -20 to +60 C degrees Storage: -50 to +85 C degrees
Humidity (Non-Condensing)	10% to 90%

Network Information

Network Architecture	Supports ad hoc peer-to-peer networks as well as communications to wired networks via Access Point(s)
Drivers Available	ODI (NetWare 2.x, 3.x, 4.x, Personal NetWare), NDIS 2.1 (Windows for Workgroups, LAN Manager); Windows 95/98/NT. The C_LLD may be licensed to facilitate design-in for non-PC platforms.
Media Access Protocol	RangeLAN2 CSMA/CA. Proxim version of CSMA/CA optimized for spread spectrum radios, includes patented contention management protocol
Roaming	Seamless Roaming
Security	Hardware scrambling of Security ID. Software encryption through 15 channels and 16 domains per network—over 1 million ID choices per domain.
Domains	Support for 16 domains for simultaneous independent overlapping network
Network Management Tools	Integrated modules support many standard SNMP agents such as Version 1 RFC 1213, 1493 and Proxim's enterprise MIB for comprehensive management. SNMP traps provide notifications for fault conditions or security violations. RangeLAN2 Manager, a web-based tool, provides ID of wireless clients, radio and Ethernet statistics, link quality diagnostics

Certifications

Meets FCC Part 15 in the U.S.; ETSI ETS 300.328 and CE EMC-EEC in Europe; applicable TELEC standards in Japan

Compatibility

OpenAir-compatibility ensures interoperability with the products of more than 20 Wireless LAN Interoperability Forum (WLI Forum) member companies

Warranty Information

1 year parts and labor (return to factory)

Ordering Information

6333	For integration in devices intended for US or ETSI certification

Note: Pre-certified products can be purchased from Proxim at no additional cost. Please contact your Proxim sales representative for more information.

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