RANGELAN2^M6330 Micro Design-in Module



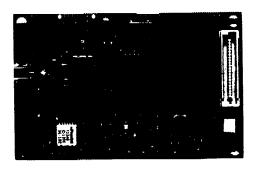
Bringing wireless LAN connectivity to a new class of mobile computing devices

Breakthrough Size Reduction Opens Up New Design Possibilities

RangeLAN2 6330 is the smallest and lightest high performance wireless LAN adapter on the market. Less than half the size of previous products, the 6330 enables high-speed 1.6 Mbps wireless communications to be brought to devices once thought to be too small for networked connectivity, including a new class of handheld PCs and application-specific handheld, palmtop, or wearable devices. Using state-of-the-art 2.4 GHz frequency hopping spread spectrum (FHSS) technology, high performance is achieved in a tiny 1.65" by 2.65" form factor, about half the size of a PCMCIA card. Even the

RangeLAN2 6330 Advantages

- Smallest and Lightest Offers the most compact form factor of any wireless LAN module, anywhere!
- High Performance Delivers a 1.6 Mbps data rate, the fastest FHSS wireless LAN design-in module available!
- Lowest Power Consumption Provides the lowest power draw in both transmit and receive modes, and with Marathon Power ManagementTM provides the lowest total power consumption in the industry!
- Greatest Compatibility Delivers full interoperability now with all RangeLAN2 and over 30 WLIF-compliant products, more than all other alternatives combined!
- Antenna Diversity Support Allows the 6330 to choose antenna signal on-the-fly, thus increasing performance in marginal situations.



ACTUAL SIZE

most compact devices can utilize the 6330 with its small 0.23 inch thickness and 0.2 inch stacking height. The 6330 uses a miniaturized connector through which most signals map directly to an ISA interface, thereby minimizing cost and allowing speedy integration.

Longer Battery Life with Marathon™ Power Management

For the newest class of small mobile devices, power consumption is even more critical than before. The 6330 utilizes MarathonTM power management, which provides the lowest power consumption of any wireless LAN adapter or designin module available. MarathonTM Doze mode means that you save valuable battery life whenever the device is not transmitting or receiving from the network, and it provides a fast transition from doze to active transmit or receive, allowing the 6330 to outperform the competition in applications that require many transactions.

Highest-Performing Module in Its Class

Small size doesn't mean low performance. In fact, the 6330 is the highest-performing design-in wireless LAN module in its class with a 1.6 Mbps data rate and an indoor range up to 500 feet with a 2 dB gain antenna in most office environments. Fifteen independent hopping patterns are available, each of which defines an independent, co-located channel, for an aggregate data rate of 24 Mbps to support large user populations. In addition, RangeLAN2 technology is carefully designed to provide fair network access among all clients regardless of network size. Seamless roaming ensures that your users can roam freely throughout their entire campus or facility.

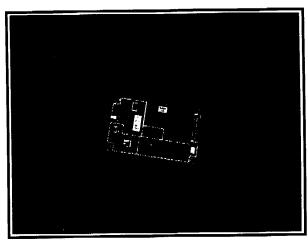


Interoperability Delivers Choices to Your Customers

In today's market, your customers expect the flexibility to choose compatible products from a wide range of vendors to meet their solution needs. As a Wireless LAN Interoperability Forum (WLIF) vendor, Proxim is one of over 20 companies that support an open industry specification designed to provide wireless LAN interoperability today. The WLIF provides an open RF specification, allowing independent parties to develop a wide array of compatible products and networks. More products interoperate based on the WLIF specification than all other alternatives combined.

Antenna Diversity Support Can Improve Performance in Difficult Environments

The 6330 provides support for antenna diversity, offering a design option to improve performance in difficult physical environments such as multipath or at the limits of the range. With antenna diversity, a control signal drives an external antenna switch to select the best incoming signal. This can increase range and throughput when multiple RF paths are present or when an antenna is having difficulty receiving a signal.



At 1.65" x 2.65", the 6330 is the world's smallest high-performance wireless LAN module available.

Award-Winning Technology Chosen by More Companies Worldwide

In 1996, Proxim RangeLAN2 technology was chosen as the Editor's Choice by PC Magazine, and Product of the Year by LAN Magazine. Further demonstrating Proxim's industry leadership, in 1997 InfoWorld announced that the 7400 PC Card and the 7520 AP-II access point are the magazine's Top Products of 1996. Most significant of all, RangeLAN2 products have been integrated into more products worldwide than all other alternatives combined.

Proxim's Services and Tools Expedite Integration

Proxim offers a wide variety of support tools and services to facilitate our partners' design-in projects, including:

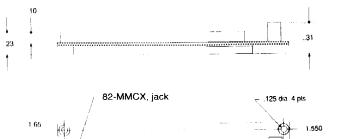
- Developer Kit with Design Guide A complete, integrated package that contains all the hardware, software, support, and documentation needed to quickly establish a 2-node network, evaluate the 6330, and begin an integration.
- Drivers Drivers for DOS, Windows 3.1, and Windows-95 clients may be licensed from Proxim in either object code or source code for use with the 6330 on PC platforms.
- **Driver Tools** A portable C code version of the drivers can be licensed from Proxim in source code form for porting to non-DOS platforms.
- Tools The site survey utility is a software tool that allows end users to install their RF network to provide the best coverage in their physical environment.

- Integration Engineering For your design-in questions, Proxim provides a team of skilled networking and wireless engineers that understand OEM requirements and have broad-based integration experience.
- Program Management Complete project management services are available from Proxim on a contracted basis.
- Worldwide Certifiability The 6330 Micro Module is certifiable worldwide, as are all our 2.4 GHz FHSS products. Certification information and guidance is available to our OEM partners.

These are some of the reasons why more OEMs have chosen Proxim than all other alternatives combined!

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Outline Drawing



1.550 AMP #177986-1 40 pin connector, .8mm pitch .983 .000 .000 .000 .000 .000

Pin-Out Summary

Pin Number	Signal	I/O
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 39 39 39 39 39 39 39 39 39 39 39 39	GND Reserved VDD Reserved VDD Reserved CD_LED Reserved AEN T/RX_LED RSSI SD14 SD7 SD13 SD6 SD12 SD5 SD11 SD4 GND GND GND SD3 CS# SD15 IOREAD# IOWRITE# INTR IOCHRDY SA2 SA1 SA0 SD0 SD8 SD1 SD0 SD8 SD1 SD9 SD2 SD10 I/OIS16 VDD GND	I N/A I N/A I N/A I N/A I N/A I N/O I/O I/O I/O I/O I/O I/O I/O I/O I/O I

ORIGINAL

Ordering Information

NOTE: All 6330 products have the same integration characteristics.

6330-02CF	For integration in devices intended for ETSI certification
6330 05CE	For integration in devices intended for US certification
6330-IP	For integration in devices intended for Japan certification
0733 02	Developer Kit, includes Design Guide and 0330-02015
0723 05	Developer Kit, includes Design Guide and 6330-05CE
0722 10	Developer Kit, includes Design Guide and 6330-JP
Y/33-JI	mmanarat. A



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Specifications

Specifications		
General		
Bus interface		
	digital connector	
Data rate		
Channele	Supports 15 orthogonal (non-interfering) co-located channels	
Marathan TM marran managament		
71		
Compliance	The 6330 is certifiable under FCC Parts 15.209 and 15.247, E131 E13 500.520,	
	and CE EMC-EEC 89/336. The 6530-3F product is certifiable under	
	RDR STD 33 in Japan.	
	NOTE: As with all wireless LAN products intended for integration,	
	certification is the responsibility of the OEM.	
Network Information		
Network architecture types	Supports ad hoc peer-to-peer networks as well as communications to	
	wired networks via an access point	
Drivers licensable with product	ODI (NetWare 2 x, 3.x, 4.x, Personal NetWare), NDIS (Windows for	
	Workgroups, LAN Manager) and Windows-93. The Child May of	
	licensed to facilitate design-in for non-PC platforms	
Media access protocol	Pangel AN2 CSMA/CA Proxim version of CSMA/CA optimized for	
	mercad enactions famo inclines halling company management	
Roaming	Supports transparent roaming between RangeLAN2 Access Points	
Socurity		
Security	15 channels and 16 domains per network - over 1 million ID choices	
	per domain	
- "		
Radio		
	NAME OF THE PROPERTY OF THE PR	
Radio type	+20 dBm FIRP with 2dBi gain antenna	
Output power	5 V nominal	
Voltage	-85 dBm in BFSK, -77 dBm in 4FSK (typical)	
Sensitivity	-05 dim in 22 stay	
Environmental		
Tomperature range (operating)	20° to +60° C	
Tamperature range (storage)	50 to +65 C	
Humidity (non-condensing)	10% to 90%	
Physical Characteristics		
Board dimensions	1.65 inch x 2.65 inch x 6.23 inch (6.54 inch veg) 42 mm x 68 mm x 6 mm (8mm height at connector)	
	72 IIII 1 W	
Antenna connector	MMCX	
Weight	Less than 0.7 ounce (20 grams)	
C		