RangeLAN2™

7420 Series PC Card

Networking Laptops and Handhelds Without Wires

Data Sheet



Advantages

- **Fast**
  Delivers a 1.6 Mbps data rate for responsive network connectivity.
- **Industry's Lowest Power Consumption**
  Marathon™ power management delivers an average <5 mA current draw in doze mode, significantly extending battery life.
- **One-piece PC Form Factor**
  Standard PCMCIA form factor means that it slips into any standard Type II card slot and is network-ready.
- **Drivers for Your Operating System**
  Standard drivers for Windows CE, Windows 95, Windows 98, Windows NT and others.

Seamless Connectivity Gives You the Freedom to Roam

The RangeLAN2 7420 PC Card is a high performance wireless LAN adapter designed to meet the needs of mobile users who require continuous LAN connectivity. It delivers an optimal combination of range, throughput, and low power consumption. It's the perfect solution for users of laptop PCs, Windows™ CE devices, and all other portable devices with standard Type II PCMCIA slots.

Imagine being able to take your laptop or handheld anywhere in your workplace with unbroken network connectivity. Scan your email while listening to a lecture. Call up an important file during a meeting. Use the web to verify a crucial fact. With the RangeLAN2 7420 PC Card and a RangeLAN2 network backbone in place in your facility, all this is not just possible, but today it is reality for thousands of satisfied customers worldwide.

Power Management That Keeps You on the Move

With Marathon Power Management, the RangeLAN2 7420 PC Card keeps you mobile longer. In most applications, when your device is neither transmitting nor receiving but needs to be network aware, the 7420 slips into doze mode, greatly reducing current draw. Further, the 7420 features the industry's lowest transmit (265 mA) and receive (130 mA) power consumption.

Guaranteed Interoperability

The RangeLAN2 7420 one-piece PC Card provides seamless roaming in your enterprise environment. Even small Windows CE platforms can benefit from wireless connectivity and long battery life. Proxim offers the only wireless LAN driver integrated in the Windows CE 2.11 OS (Handheld Pro Edition 3.0), in addition to Windows CE 2.0 driver support. And since the 7420 fully complies with the OpenAir™ standard, connectivity and interoperability is guaranteed with all of the large base of OpenAir-certified products from the more than twenty companies belonging to the Wireless LAN Interoperability Forum.

Standard Drivers and Software Tools for Easy Network Installation

Proxim's unique Site Survey software is provided with each unit to assist in fast and easy wireless network design and installation. With NOS drivers for all major operating systems, the RangeLAN2 7420 quickly becomes a natural wireless extension to your existing Ethernet or Token Ring network.

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Specifications

General

Radio Data Rate ..... 1.6 Mbps per channel, 800 Kbps fallback rate for extended range

Range ..... • With dipole antenna: ~500 feet (~152 m) in typical office environments. ~1000 feet (~305 m) in open spaces.
• With snap-on antenna: ~400 feet (~122 m) in typical office environments. ~700 feet (~213 m) in open spaces.

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

Power Management ..... 265 mA transmit, 130 mA receive, average 5 mA doze mode, 2 mA sleep mode (all are typical values)

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 infrastructure communication to wired Ethernet or Token Ring networks via Access and Extension Point(s)

Drivers Included ..... NDIS 3.1 (for Windows 95/98/ME/NT); NDIS 5 (for Windows 2000); NDIS 2.1 (for DOS, Windows for Workgroups); ODI 4.0 (for NetWare); Windows CE 2.0; Integrated in Windows CE 2.11 OS (Handheld Pro Edition 3.0)

Roaming ..... Seamless Roaming

Domains ..... Up to 16 domains for simultaneous independent networks

Security ..... Twenty character alphanumeric encrypted security ID

Installation & Diagnostics ..... Site survey tool included. Surveys other wireless units and spectrum conditions, reports link quality and ping statistics to APs. Desktop icon continuously reports connection status

Radio

Frequency Band ..... 2.4 GHz band. Actual frequencies in use vary by country

Radio Type ..... Frequency hopping spread spectrum (FHSS)

Output Power 100mW

Voltage ..... 5 V

Antenna Options ..... Dipole (1 dBi gain) or Snap-On (0 dBi gain)

Environmental

Temperature Range ..... -20 to +60 degrees (operating) -20 to +65 degrees (storage)

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

Physical Specifications

Form Factor ..... PCMCIA, Type II PC Card. Card and Socket Services 2.1 compliant

Weight ..... 1.09 ounces (31 g), PC Card only

Ordering Information

7421 ..... PC Card with dipole antenna

7422 ..... PC Card with snap-on antenna

OEM Version ..... Contact Proxim

Accessories

Driver and Site Survey Tool diskettes, antenna, operating manual

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