

Product Profile

- Fiber optic connectivity without cumbersome and costly external converters
- 10/100 Ethernet for the highest data rates possible
- VoIP optimization to leverage the wireless LAN for voice and data
- Integrated Power over Ethernet solution eliminates expensive cabling
- IEEE 802.11b compliant and Wi-Fi™ certified ensures interoperability and investment protection
- 11 Mbps performance supports bandwidth-intensive applications
- NEMA4/IP54 case withstands harsh environments



MobileLAN™ access 2100

Most advanced wireless access point

MobileLAN™ access 2100 is the most advanced 11 Mbps wireless access point available for high-speed, high-throughput, demanding environments. Compliant with 802.11b standards, **MobileLAN** access 2100 sets a new standard in access points with advanced features and better performance. Housed in a NEMA4/IP54 case with heater options, **MobileLAN** access 2100 is the ideal access point for harsh environments where cold temperatures, small airborne particles and moisture are prevalent.

High performance wireless communications

Fiber optic network connectivity is now possible on **MobileLAN** access 2100 via an MT-RJ connector.

Wireless service on 100 Mbps networks is now achievable with 10Base-T/100Base-Tx compatibility on **MobileLAN** access 2100. It auto negotiates with the device it is connected to allowing the data rate to be set at the highest rate at which both devices can communicate.

Intermec's patented dual radio support as well as support for S-UHF, 900Mhz and Open Air technologies continue to be available on **MobileLAN** access 2100.

Recognizing that Ethernet can have data rates as high as 100Mbps and that radio

data rates are no more than 11 Mbps, Intermec designed a more efficient method for its access points to forward packets from the Ethernet to the radios. **MobileLAN** access 2100 uses hardware-based packet filtering, which ensures fewer dropped packets, less network congestion and better overall performance.

MobileLAN access 2100 leads the industry with seamless IP tunneling. This feature eliminates the requirement to have the routing application reside in the client. The technology supports wall-to-wall bridging, which allows your wireless network to grow without the expense of expanding the wired backbone.

MobileLAN access 2100 expands the options available to IT managers with integrated Power over Ethernet and support for VoIP.

IP addresses are easier and less expensive to administer on **MobileLAN** access 2100 with DHCP (Dynamic Host Configuration Protocol) server functionality. **MobileLAN** access 2100 can use any standard RADIUS server for optimum network security. Additional security is provided through WEP key management.

MobileLAN products are compliant with the IEEE 802.11b standard and will provide a migration path to support the pending standard, IEEE 802.11a.

Physical Characteristics

Length: 355 mm (14.0")
Height: 95 mm (3.75")
Width: 236 mm (9.3")
Weight: 2.63 kg (5.8 lb)
Input Voltage: 100-240 VAC Auto Ranging Power Supply
Input Power: 15 Watts Optional Heater Additional 75 Watts
 Supports dual radio and mixed dual radio operation wireless bridging DHCP client and server NAT server radius server

Wireless LAN Characteristics

IEEE 802.11b High Rate Wireless Radio
Frequency Band: 2.4 GHz, actual frequencies vary by country.
Radio Type: IEEE 802.11b High Rate (11 Mbps)
Modulation: Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
Radio Power Output: 15 dBm
Radio Data Rate: 11 Mbps High/5.5 Mbps Medium/2 Mbps Standard/1 Mbps low Automatic fallback for increased range
Channels: United States (FCC) 11 Channels, Europe (ETSI) 13 Channels, other countries per local regulations.
Bit Error Rate: Better than 10⁻⁵

Range	1Mbps	2 Mbps
Open Environment	1750ft (533m)	1300ft (396m)
Semi-Open	375ft (114m)	300ft (91m)
Closed Environment	165ft (50m)	130ft (40m)
Unlimited range with roaming		
Receiver Sensitivity:	-95 dBm	-92 dBm

Range	5.5 Mbps	11 Mbps
Open Environment	885ft (270m)	525ft (160m)
Semi-Open	230ft (70m)	165ft (50m)
Closed Environment	115ft (35m)	80ft (24m)
Unlimited range with roaming		
Receiver Sensitivity:	-87 dBm	-82 dBm

Security: IEEE 802.11 Wired Equivalent Privacy (WEP) standard, WEP64 and WEP128 are supported

2.4 GHz OpenAir™ Wireless Radio

Frequency Band: 2.4 GHz, actual frequencies vary by country.
Radio Type: WLI Forum OpenAir™
Radio Power Output: 500 mW /100 mW (Europe)
Radio Data Rate: 1.6 Mbps per channel. 800 Kbps fallback rate for extended range.

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

Receiver Sensitivity: -77 dBm @ 1.6 Mbps / -85 dBm @ 800 kbps
Range: Up to 150meters (500 ft.) radius indoors, 300 meters (1000 ft.) outdoors.
Security: 20 digit security ID's available.

900MHz Falcon Wireless Radio

Frequency Band: 902-928 MHz frequency band
Radio Type: Direct Sequence Spread Spectrum (DSSS)

Radio Power Output:
Minimum: 24 dBm (250 mW)
Typical: 25.5 dBm (350 mW)
Maximum: 27 dBm (500 mW)
Radio Data Rate: 90, 255, or 450 Kbps
Channels: 7 @ 90 Kbps, 1 @ 225 or 440 Kbps
Range: Up to 600 meters (2000 ft.) (line of sight)
Coverage: 9,000-31,500 meters (100,000-350,000 sq. ft.) (conservative)

Synthesized UHF Wireless Radio

Frequency Band: 430-450 MHz (Low Band) 450-470 MHz (High Band)
Radio Type: Synthesized UHF (four-level frequency shift keying)

Radio Power Output: 0.5 W (27 dBm) Low and High Bands, 10 mW (10 dBm)
Radio Data Rate: 19.2 Kbps (14.4 Kbps with forward error correction)
Receiver Sensitivity: -105 dBm
Range: Up to 1,067 m (3,500 ft.) line of sight
Coverage: 0.5 W, 74,320 sq m (800,000 sq ft) indoors; 10 mW, 9,290 sq m (100,000 sq ft) indoors
 Channels Spacing: 20 KHz or 25 KHz

Network Information

Ethernet Interface: 10/100 BaseT
 Optional MT-RJ Fiber Interface (new)
Ethernet Data Rate: 10/100Mbps
Filtering Rate: Full Ethernet Rate
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 using Web Browser or TFI over the network or serial port.

Management

Management Interfaces: SNMP; Web browser-based manager; serial port, or Telnet via RF, serial and Ethernet.

SNMP Version 1 Agent supporting:

SNMP Traps: Cold start, authorization violation, MobileLAN access point enterprise specification

SNMP MIBs: RFC 1213, RFC 1398, RFC 1493, MobileLAN access point MIB

Environment

Operating:

Standard Unit: -25° to 70°C (-13° to 158°F)

Heater Option: -30° to 70°C (-22° to 158°F)

Heater Option with insulated bag:

-30° to 0°C (-22° to 32°F)

Storage Temperature Range:

-40° to 70°C (-40° to 158°F)

Humidity (Non-Condensing): 10 to 90%

relative humidity, non-condensing

Industrial Sealing: IP54 (NEMA 4)

Accessories

- Mounting Brackets
- Wide selection of RF Antennas and Cables

Regulatory Approvals

FCC Part 15.247 Certified; Canada RSS 210 Certified; ETS 300 328 Type Approved; EN 55022 / CISPR 22 Class A; FCC Part 15 & ICES-003 Class A; SCT Certification, NOM-EM-121; AS 3548, C tick Marked; Compliant with all European Directives, CE Marked (ETS 300 826); UL Listed, UL 1950/C22.2 #950 IEC; 60529-IP53 and C22.2 #94-ENC3.5; Non-incendive 2.4 GHz and 900 MHz antenna circuits UL Listed, UL 1604 & C22.2 #213 for Div 2; Class I-Groups A, B, C & D; Class II-Groups F & G; Class III; TÜV Licensed, EN 60950 & EN 60529-IP53; NYCE Certified, NOM 19

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