

## Product Profile

- Dual Radio Capability Supports Mixed Wireless Technologies, Voice Data Segmentation, Wireless Bridging, and Wireless Access Points
- High Performance 10/100 Ethernet With Hardware Switching Support
- Fiber optic connectivity without cumbersome and costly external converters
- QOS for VoIP optimization to leverage the wireless LAN for voice and data
- IEEE 802.11b compliant and Wi-Fi™ certified ensures interoperability
- 11 Mbps performance support for bandwidth-intensive applications



### MobileLAN™ access 2101

**Most advanced wireless access point**  
MobileLAN™ access 2101 is an 11 Mbps wireless access point available for high-speed, high-throughput, demanding environments. 802.11b compliant, MobileLAN access 2101 sets a new standard in access points with advanced features, better performance and a lower price.

#### High performance wireless communications

Extensive feature set for Enterprise applications. MobileLAN access 2101 continues to expand the rich feature set within Intermec access points. New features include an internal RADIUS server for client authentication, DHCP server and NAT support. These features are in addition to IP tunneling support, system wide software distribution, and other current features.

Fiber optic network connectivity is now possible on MobileLAN access 2101 via an optional MT-RJ connector.

Wireless service on 100 Mbps networks is now achievable with 10Base-T/100Base-Tx compatibility on MobileLAN access 2101. 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 Open Air technology continues to be available on MobileLAN access 2101.

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 2101 uses hardware-based packet filtering, which ensures fewer dropped packets, less network congestion and better overall performance.

MobileLAN access 2101 leads the industry with seamless IP tunneling. This feature allows multiple subnet mobility for any IP clients, without the need for specific IP mobility software within client devices. Wireless bridging support, and wireless access points serving as repeaters continue to be supported as well.

MobileLAN access 2101 is part of the comprehensive family of MobileLAN wireless products. Based on the direct sequence spread spectrum technology, MobileLAN products are compliant with the IEEE 802.11b standard.

**Physical Characteristics**

**Length:** 250 mm (9.84")  
**Height:** 38 mm (1.49")  
**Width:** 159 mm (6.27")  
**Weight:** .526 kg (1.16 lb)  
**Input Voltage:** 5 VDC, Supply with external power supply, 100-240 VAC Auto Ranging Power Supply, AC requirements 15 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	1 Mbps	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, 128-bit wep, 64 bit WEP supported

2.4 GHz OpenAir™ Wireless Radio  
**Frequency Band:** 2.4 GHz, actual frequencies vary by country  
**Radio Type:** WLI Forum OpenAir™ Compatible Frequency Hopping Spread Spectrum (FHSS)  
**Radio Power Output:** 100 mW  
**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)  
**Range:** Up to 150 meters (500 ft.) radius indoors, up to 300 meters (1000 ft.) radius outdoors  
**Compatibility:** Fully interoperable with Model 0110, 0111 & 6710 Access Points as well as all certified WLI Forum OpenAir™ products  
**Security:** 20 digit security id's available

**Network Information**

**Ethernet Interface:** 10/100 BaseT  
**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 TFTP over the network or serial port

**Management**

**Management Interfaces:** SNMP; Web browser-based manager; text-based menu system, serial port, or Telnet via RF, serial and Ethernet  
**SNMP Version 1 Agent supporting:**  
**SNMP Traps:** Cold start, authorization violation, MobileLAN access point enterprise specific trap  
**SNMP MIBs:** RFC 1213, RFC 1398, RFC 1493, MobileLAN access point MIB

**Physical Management Connections:**  
**Phone line via customer-supplied modem:** Ethernet; wireless network; direct cabled connection/DB9 plug, requires customer-supplied null modem cable

**Environment**

**Operating:** Standard Unit -20° to 65° C (-4° to 149° F)  
**Storage Temperature Range:** -40° to 70° C (-40° to 158° F)  
**Humidity (Non-Condensing):** 10 to 90% relative humidity, non-condensing

**Accessories**

- Mounting Brackets
- Serial Console Cable
- 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 B  
 FCC Part 15 & ICES-003 Class A  
 SCT Certification, NOM-EM-121, pending AS 3548, C tick Marked  
 Compliant with all European Directives, CE Marked (~ETS 300 826)  
 UL Listed, UL 1950 & IEC 60529–IP53  
 CSA Certified, C22.2 #950 & C22.2 #94–ENC 3.5  
 TUV Licensed, EN 60950 & EN 60529–IP53  
 NYCE Certified, NOM 19

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**The Standard for Wireless Fidelity.**

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