MobileLAN™access WA22G

Quick Start Guide

Intermec

For complete instructions on how to install, operate, configure, maintain, and troubleshoot your WA22G, see the *MobileLAN access WA22G System Manual* (P/N 074921). This manual is available as a PDF file on the Documentation for AIT-III CD. To order accessories, printed documentation, or CDs, contact your Intermec representative.

Specifications

Physical Dimensions

Length:	25.0 cm (9.8 in)
Height:	38.0 cm (1.5 in)
Width:	15.9 cm (6.3 in)
Weight:	625 g (1.4 lbs)

Electrical Specifications

Power over Ethernet electrical rating:	48V, 315 mA

Temperature and Humidity Specifications

Operating temperature:	-20°C to 55°C (-4°F to 131°F)
Storage temperature:	-40°C to 70°C (-40°F to 158°F)
Storage humidity:	10 to 90% relative humidity, non-condensing

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Out of the Box

Document package

MobileLAN access WA22G

Mounting bracket and shoulder screws (4)

Note: The WA22G does not ship with antennas. For a list of antennas and antenna accessories, see the *MobileLAN access WA2XG System Manual* or contact your Intermec representative.

Safety First

⚠️ **Caution**

Government regulatory agencies require that this access point only use approved antennas. Therefore, this access point uses a custom antenna connector. Do not use antennas that are not approved for use with this access point.

⚠️ **Caution**

The WA22G is intended to be powered only from an Ethernet host that complies with the IEEE 802.3af specification for power over Ethernet.

What Is the WA22G?

Intermec's MobileLAN™access WA22G is the ideal enterprise-class access point for light industrial applications. It provides the features necessary to support mission critical applications.
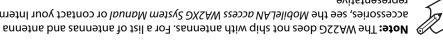
Wi-Fi CERTIFIED b|g

The WA22G with an IEEE 802.11g radio installed is Wi-Fi certified for interoperability with other 802.11g and 802.11b wireless LAN devices.

The WA22G also has these features:

- Integrated power-over-Ethernet solution eliminates the need and expense of installing separate cables and outlets for power and for Ethernet.
- Fiber optic solution enables wireless service on 100 Mbps networks.
- Advanced authorization, authentication, and encryption capabilities including WPA (PSK and 802.1x) security, 802.1x security, and basic WEP 64/128 security.

This quick start guide helps you to understand the WA22G ports and LEDs. You can also use this quick start guide to get an overview of how to install the WA22G, how to connect the WA22G to power and to your network, and how to use the MobileLAN access Utility to configure its IPv4 address. Once you assign the WA22G an IP address, you can continue configuring it using a web browser interface.
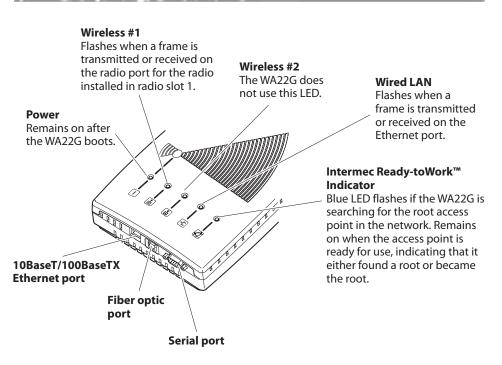

Understanding the LEDs and Ports

Wireless #1
Flashes when a frame is transmitted or received on the radio port for the radio installed in radio slot 1.

Wireless #2
The WA22G does not use this LED.

Wired LAN
Flashes when a frame is transmitted or received on the Ethernet port.

Power
Remains on after the WA22G boots.

Intermec Ready-toWork™ Indicator
Blue LED flashes if the WA22G is searching for the root access point in the network. Remains on when the access point is ready for use, indicating that it either found a root or became the root.

10BaseT/100BaseTX Ethernet port

Fiber optic port

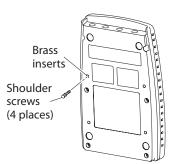**Serial port**

❶ Mounting the WA22G

You can place the WA22G on a stable surface or you can mount it to a wall or beam using the wall mounting bracket.

Note: Intermec offers a variety of mounting bracket kits, antennas, and antenna accessories. For a complete list, see the *MobileLAN access WA2XG System Manual*.
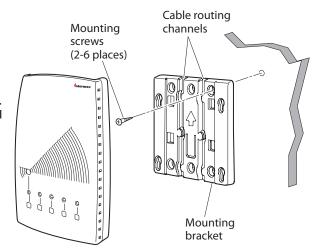
To use the wall mounting bracket

❶ On the back of the WA22G, insert a shoulder screw into each of the brass inserts and tighten securely.

❷ Using the wall mounting bracket as a template, mark the location of the mounting holes on the mounting surface.

❸ Drill the holes.

❹ Position the bracket on the mounting surface with the arrow pointing up.

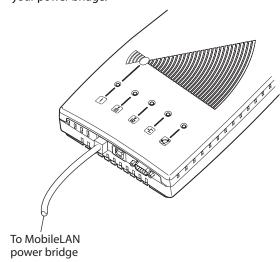❺ Using screws that you provide, secure the bracket to the mounting surface.

Brass inserts

Shoulder screws (4 places)

Mounting the WA22G (*continued*)

❻ Route the Ethernet cable through the cable routing channels.

❼ Mount the WA22G in the bracket by inserting the shoulder screws into the keyhole slots in the bracket. Slide the WA22G down until it is firmly seated in the bracket.

❽ Attach antennas to the WA22G.

Mounting screws (2-6 places)

Cable routing channels

Mounting bracket

❷ Connecting to Power

❶ Connect the WA22G to power. Use an Ethernet cable to connect the Ethernet port to a MobileLAN power bridge, a Cisco power bridge, or another 802.3af-compliant power bridge.

❷ Connect the power bridge to power. For help, see the documentation that shipped with your power bridge.
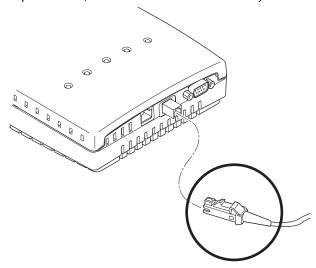
To MobileLAN power bridge

❸ Connecting to Your Network

Connect the power bridge to your Ethernet network. For help, see the documentation that shipped with your power bridge.

Or, you can connect the WA22G fiber optic port to your fiber optic network. The fiber optic port has a male MT-RJ connector interface. Therefore, you must supply a patch cord with a female MT-RJ connector to insert into this port.

You must also supply a patch cord and an adapter, depending on the type of network to which the WA22G is connected: MT-RJ, square connector (SC), or straight tip (ST). Patch cords and adapters are available from many different manufacturers. For more help connecting to a fiber optic network, see the *MobileLAN access WA2XG System Manual*.

Insert a **female** MT-RJ connector into the fiber optic port

❹ Setting an Initial IP Address

Note: If you are using IPv6 addressing, you must use a communications program, such as HyperTerminal, to assign the WA22G an initial IP address. For help, see the *MobileLAN access WA2XG System Manual*.
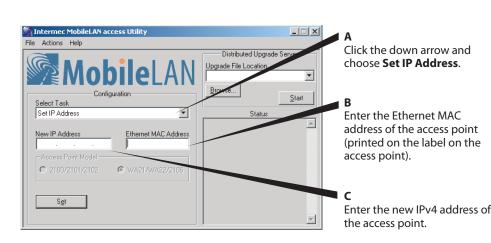
To set an initial IPv4 address

❶ Install the MobileLAN access utility on your PC. Download the utility from the Intermec web site (www.intermec.com), extract the .ZIP file, double-click the .EXE file, and then follow the instructions that appear on your screen.

Note: Your PC must be on the same Ethernet segment as the access point. Or, if your PC is communicating wirelessly with the access point, you must have an active radio connection.

❷ Start the utility.

❸ Configure parameters A through C. See the screen to the right.

❹ Click **Set**.

❺ Immediately reboot the access point by disconnecting the Ethernet cable and reconnecting it. The Status box lets you know when the new IP address is successfully set.

A
Click the down arrow and choose **Set IP Address**.

B
Enter the Ethernet MAC address of the access point (printed on the label on the access point).

C
Enter the new IPv4 address of the access point.

Congratulations!

Your wireless end devices can now begin transmitting data packets through the WA22G to your wired network. To continue configuring the access point, from the **Actions** menu choose **Configure Access Point**. Your web browser application (for example, Internet Explorer) starts and the Access Point Login screen appears.