Intermec

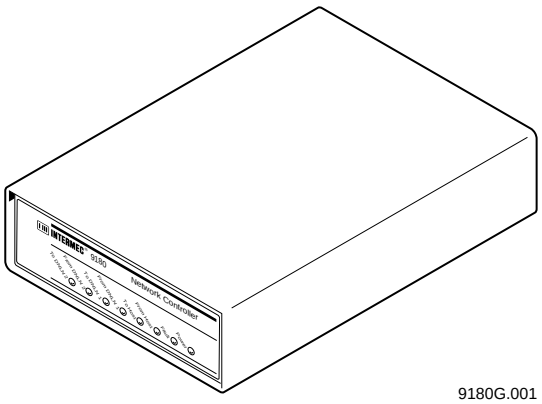
Getting Started Guide

9180 Network Controller

P/N 066120-002

Congratulations on Selecting Intermec

to help you meet your data collection needs. You have chosen a world leader in the data collection industry.



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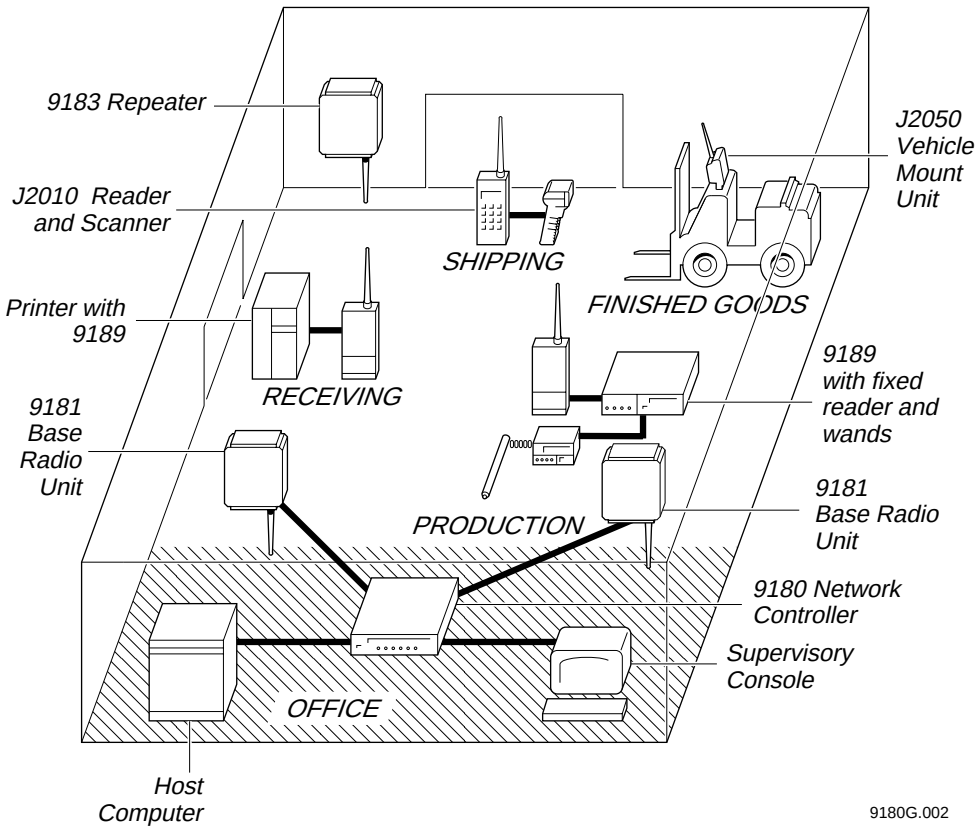
The 9180 Network Controller can handle all communications between the host computer and the Intermec 900 MHz radio frequency (RF) data collection network. It takes the data that is collected through the RF channels and sends it to the host computer. The 9180 Network Controller is also responsible for transmitting data from the host to the data collection devices. After it has been installed, the controller can be configured to meet your system's specific layout requirements.

How the 9180 Network Controller Fits in a Data Collection System

The Intermec 900 MHz RF data collection system is comprised of several devices that work together to compile all the data you collect and send to the host computer.

When installed and configured, the system works automatically and requires no assistance by an operator. The only devices that require operation are the scanners and readers used to collect the data. The rest of the RF system works as a transparent link between the data collection devices and the host computer.



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Getting Started

Place the controller on a clean stable surface that is close to an AC power outlet or surge protector. Also place the controller in an area that is protected from dirt, debris, and liquids. Position the controller so that the front panel is visible, and there is at least 6 inches (15.24 cm) behind the back panel.

To install the 9180 Network Controller you need

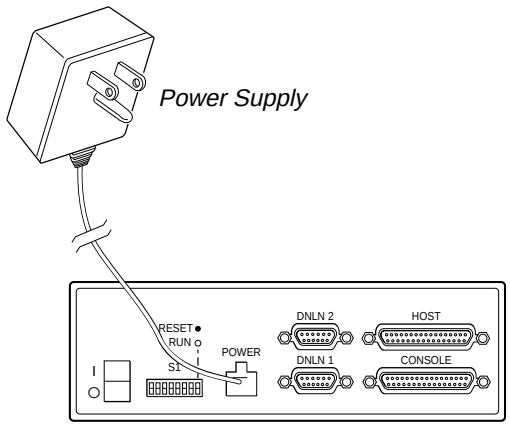
- an Intermec DC power supply (see "Basic Electrical and Environmental Specifications" for part numbers).
- a console to configure the controller.
- a standard RS-232 cable for connecting the console to the controller.
- an RS-232 cross-over modem bypass (null modem) cable to connect the controller directly to the host, or an RS-422 cable if the host is 50 feet (15 meters) to 4000 feet (1220 meters) from the controller.

  Note: *For distances greater that 4000 feet (1220 meters), use a modem and a modem cable assembly that supports an RS-232 interface.*

After you have placed the controller and have the power supply, console, and cables, you are ready to install the controller.

1. Make sure the controller is OFF. Connect the power supply four-pin connector into the connection marked POWER on the controller back panel. Connect the other end into the AC power outlet or surge protector.

   Do not turn on the controller.



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2. Connect the controller to the host directly or with a modem.

   To connect to the host For distances of up to 50 feet (15 meters), plug the 25-pin D-style connector prongs of the RS-232 null modem cable into the connection marked HOST on the controller back panel. Plug the other end into the host computer.

   Note: *For distances between 50 feet (15 meters) and 4000 feet (1220 meters) use an RS-422 connection.*

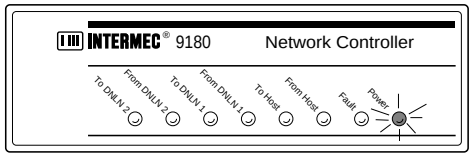
   To connect with a modem Plug the 25-pin D-style connector prongs of the RS-232 cable into the connection marked HOST on the controller back panel. Plug the other end into a modem.

   Connect a modem to the host. The two modems must be connected with an acoustic coupler or a direct telephone line.

3. Connect one end of the standard RS-232 cable to the connection marked CONSOLE on the controller back panel. Plug the other end into the console, or the modem.

4. Turn on the controller by pressing the power switch on the back panel to the ON (I) position.

   The light emitting diodes (LEDs) on the front panel will light, indicating the controller is performing a self-test. When the self-test is finished, the Power LED will remain on.



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5. Configure your console so you can use it with the controller. Refer to the *RF System/9180 Controller User's Manual* for more information.

   The console must be set for:

   - full duplex operation
   - 9600 bps
   - even parity
   - 7 data bits and 2 stop bits

6. Configure your controller using the console. Refer to the *RF System/9180 Controller User's Manual* for more information.

Physical Specifications

Dimensions	11.1 in x 7.5 in x 2.5 in (28.2 cm x 19.1 cm x 6.3 cm)
Weight	6 lb (13.2 kg)

Basic Electrical and Environmental Specifications

Power supply	AC power supplies available: ~ 120 V 50/60 Hz (P/N 054182) ~ 100 V 50/60 Hz (P/N 054183) ~ 230 V 50/60 Hz (P/N 054184)
Electrical rating	⎓ 10 V, 500 mA
Operating temperature	32º to 122ºF (0º to 50ºC)
Storage temperature	-40º to 158ºF (-40º to 70ºC)
Relative humidity	10% to 90% relative non-condensing

Other Specifications

Host Interface	EIA RS-232 or RS-422 Data rate: 300 bps to 19.2 KBps ASCII asynchronous protocol Odd, even, mark, space parity 7 or 8 data bits One or two stops bits Xon/Xoff handshake Optional LRC for enhanced data integrity checking Addressing and protocol compatible with 9154
Downline Communications	Two ports DB9 connectors RS-422 Data rate: 64 KBps NRZI Protocol: ISO Standard HDLC Devices supports: 64

Where to Find More Information

The *RF System/9180 Controller User's Manual* (P/N 054292) contains all of the information necessary to install, configure, operate, and troubleshoot the controller.

For information on ordering a manual, contact your local Intermec sales representative.

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