

# MicroBar 9745 Base Station



A **UNOVA** Company

Intermec Technologies Corporation  
6001 36th Avenue West  
P.O. Box 4280  
Everett, WA 98203-9280

U.S. service and technical support: 1-800-755-5505  
U.S. media supplies ordering information: 1-800-227-9947

Canadian service and technical support: 1-800-688-7043  
Canadian media supplies ordering information: 1-800-268-6936

Outside U.S. and Canada: Contact your local Intermec service supplier.

The information contained herein is proprietary and is provided solely for the purpose of allowing customers to operate and/or service Intermec manufactured equipment and is not to be released, reproduced, or used for any other purpose without the written permission of Intermec.

Information and specifications in this manual are subject to change without notice.

© 1998-1999 by Intermec Technologies Corporation  
All Rights Reserved

The word Intermec, the Intermec logo, JANUS, IRL, TRAKKER, Antares, Adara, Duratherm, EasyCoder, EZBuilder, Precision Print, PrintSet, Virtual Wedge, MicroBar, Sabre, and CrossBar are trademarks of Intermec Technologies Corporation.

Throughout this manual, trademarked names may be used. Rather than put a trademark (™ or ®) symbol in every occurrence of a trademarked name, we state that we are using the names only in an editorial fashion, and to the benefit of the trademark owner, with no intention of infringement.

# ***Contents***

<i>Overview of the MicroBar 9745 Base Station</i>	<i>5</i>
<i>Unpacking the MicroBar 9745 Base Station</i>	<i>6</i>
<i>Understanding the MicroBar 9745 Features</i>	<i>7</i>
<i>Light</i>	<i>8</i>
<i>Electrical Rating</i>	<i>8</i>
<i>Environment</i>	<i>8</i>
<i>Ordering Cables</i>	<i>9</i>
<i>Connecting the MicroBar 9745 Base Station</i>	<i>13</i>
<i>Configuring for Selected Terminals</i>	<i>14</i>
<i>Troubleshooting the MicroBar 9745 Base Station</i>	<i>17</i>
<i>Accessories for the MicroBar 9745 Base Station</i>	<i>18</i>

## ***Overview of the MicroBar 9745***

### ***Base Station***

---

The Intermec MicroBar 9745 base station transfers signals between the Sabre 1552 laser scanner and a reader or terminal. The 9745 provides keyboard wedge interface and RS-232 communications and supports radio frequency (RF) communications for the countries listed in the following table.

<b>Country</b>	<b>Base Station</b>
Austria, Belgium, Denmark, Germany	9745C07103
Argentina, Brazil, Canada, Chile, United States, United Kingdom	9745C07104
Australia	9745C07107
France, Mexico, and Spain	9745C07108

Countries are continually being added to this list; consequently, some of the most recent additions may not be shown above. Contact your local Intermec representative for a current list.

The base station supports the following readers and terminals:

- IBM PC XT/AT or PS/2 Mod 30 compatible
- ADI 1496
- Falco 5220
- Harris H180, H191
- IBM 3151/316X/317X/318X/319X/347X
- DEC VT220/320/420
- DEC PC 510/520/525
- Olivetti M19, M200, M240, M250, M380, P500
- Silicon Graphics Indy, Indigo II
- Televideo 990
- Wyse 30, 60, 85/185, 120, 150, 160, 325, 370
- Laptop Computers

## ***Unpacking the MicroBar 9745 Base Station***

---

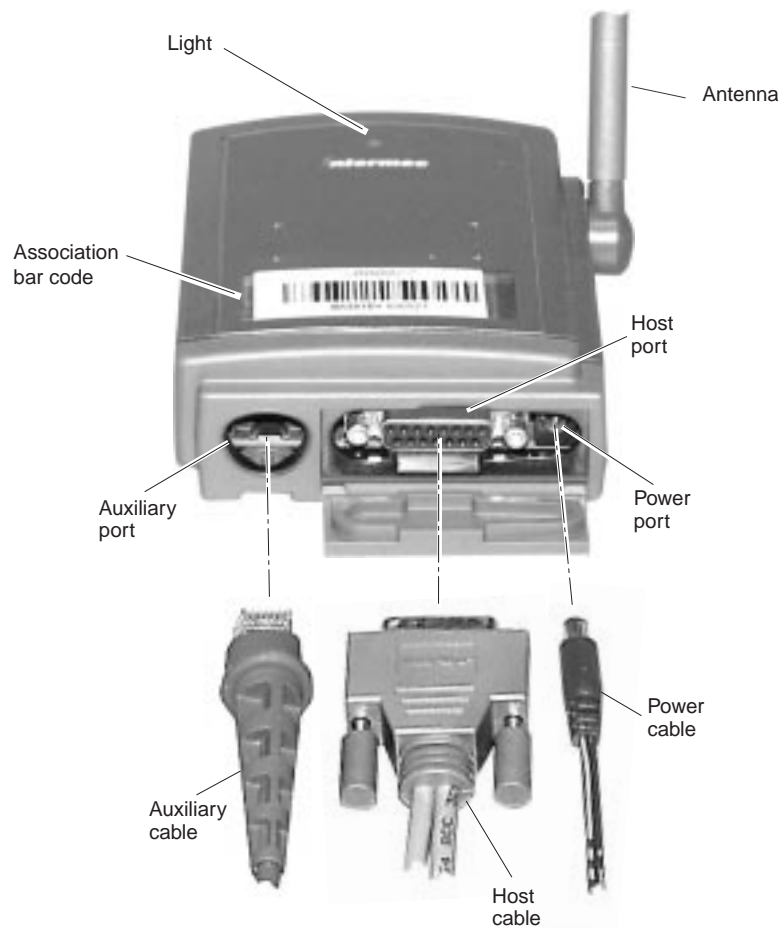
Your MicroBar 9745 base station was thoroughly tested and inspected before it was shipped from the factory. The shipping box contains:

- The base station
- A CD containing Visual Menu, a Windows tool for configuring the base station and Sabre 1552 scanner and for printing bar codes
- This user's guide

If any of these items are missing or damaged, please contact your local Intermec representative. Retain the shipping box in case you need to ship the base station.

## ***Understanding the MicroBar 9745 Features***

Use the following photograph to locate and identify the main features of the MicroBar 9745 base station.



---


## ***Light***

The green light indicates the power mode or decoding status of the base station. The following table describes the different light indications.

<b>Light Status</b>	<b>Description</b>
Steady	The base station has power and is not decoding a signal from a scanner.
Flashing quickly	The base station has power and is decoding a signal from a scanner.
Four long pulses	The base station detected an error in communications. See “Troubleshooting” later in this guide.
Flashing slowly	The power up diagnostic failed. Unplug the power supply and then plug it back in. If the light flashes and then goes out, return the base station to your Intermec representative.

---

## ***Electrical Rating***

The MicroBar 9745 base station electrical ratings are  4,5 to 14,5V; 400 mA.

---

## ***Environment***

Operating Temperature:	-4° to 122°F (-20° to 50°C)
Storage Temperature:	-22° to 140°F (-30° to 60°C)
Humidity:	0% to 95%

## ***Ordering Cables***

---

Before you order a cable, consider where you are mounting the MicroBar 9745 base station. For clear communication between the base station and the Sabre 1552 laser scanners, make sure that you follow the next requirements:

- Leave enough clearance around the base station so that you can position the antenna so that it is vertical.
- Mount the base station so that nothing, particularly metal objects, obstructs the signal between the base station and the scanners.

These requirements will help you determine how long your cable may be and to what terminal or PC you connect the base station to.

To order a cable, contact your local Intermec representative. If you use the base station in an environment where it can get wet, use an auxiliary cable. Only use the host and power cables in areas where the base station will not get wet.

The base station can receive power through the following sources:

- External power supply plugged into the base station.
- External power supply plugged into a Y jack on an RS-232 or extension cable.
- Host power provided through a wedge cable.
- Host power provided through pin 9 of an RS-232 cable.
- Host power provided through the auxiliary port.

Use the next table to determine which cable to order.

***Note:*** *Wedge cable extensions should not exceed 15 feet (5 meters). RS-232 cables can extend to 50 feet (15 meters) and wand emulation cables can extend to 20 feet (6 meters). Auxiliary cables were designed mainly for portable applications.*



---

***Ordering Cables (continued)***

<b>Base Station to Host Cables</b>	<b>Part No.</b>
IBM 3153/3471/72, 76/77	42205041-01
Harris H180/191	42205042-01
ADI 1496	42205030-01
BDS-7 (HDS-7)	42205030-01
DEC PC VT510/520/ 525	42205021-01
DEC VT220/320/420	42205904-01
Falco 5220	42205030-01
IBM 3161/62/63, 3179, 3180, 3191/92, 3196/97	42205040-01
ADI 1496	42205040-01
IBM 4683/84, 4693/94 Port 5A	42205220-01
IBM 4683/84, 4693/94 Port 5B	42205024-01
IBM 4683/84, 4693/94 Port 9A/B	42205023-01
IBM 4683/84, 4693/94 Port 17	42205022-01
IBM PC Clones (Mini Din)	42205021-01
IBM PC XT/AT (Din)	42205030-01
IBM PC AT (Mini Din)	42205021-01
Olivetti M19, M200	42205030-01
Olivetti M240, M250, M290, M380, P500	42205021-01
Silicon Graphics Indy, Indigo II	42205021-01
Televideo 990	42205021-01
Wyse 30, 60, 85/185, 120, 150, 160, 325, 370	42205977-01*
RS-232 DB25 pin Male (True Output)	42205127-01*
RS-232 DB25 pin Female (True Output)	42205127-02*
RS-232 DB9 pin Male (True Output)	42205127-03*
RS-232 DB9 pin Female (True Output)	42205127-04*

---

**Ordering Cables (continued)**

<b>Base Station to Host Cables</b>	<b>Part No.</b>
RS-232 Serial Wedge	42205915-01*
ADDS 400	42205815-01
RS-232 DB9 pin Male (True Output), Y power jack	42205850-03**
RS-232 DB9 pin Female (True Output), Y power jack	42205850-04**
Laptop PS2/Min Din Style	42205610-01
RS-232 DB25 pin Male (True Output), Y power jack	42205851-03**
RS-232 DB25 pin Female (True Output), Y power jack	42205851-04**
Cable, Base, Extension, 4 feet	42205853-104
Cable, Base, Extension, 10 feet	42205853-110
Cable, Base, Extension, 20 feet	42205853-120
Cable, Base, Extension, 4 feet, with power	42205853-304
Cable, Base, Extension, 10 feet, with power	42205853-310
Cable, Base, Extension, 20 feet, with power	42205853-320
Download Cable, 3470/5770/1552	42205856-02
Download Cable, 2070/9745	42205866-03

*\* Requires one of these external power supplies:*

<i>~100V, 50/60 Hz</i>	<i>Part No. 043230</i>
<i>~120V, 60 Hz (North American plug)</i>	<i>Part No. 047793</i>
<i>~240V, 50 Hz (United Kingdom plug)</i>	<i>Part No. 047794</i>
<i>~220V, 50 Hz (Euro plug)</i>	<i>Part No. 047795</i>
<i>~PS/2 Mouse Cable, Power Pick-Up</i>	<i>Part No. 590451</i>
<i>~Universal Power Supply</i>	<i>Part No. 065236</i>

*\*\*External power y jack available for power connection.*

---

**Ordering Cables (continued)**

<b>Auxiliary Port Cables</b>	<b>Part No.</b>
Cable Assembly, Straight, 10 pin Wand Emulation, 8 feet	067364-001
Cable Assembly, Straight, 10 pin Wand Emulation, 15 feet	067364-002
Cable Assembly, Straight, 10 pin Wand Emulation, 20 feet	067364-003
Cable Assembly, Straight, RS-232, 9 pin D-sub, 8 feet	067364-004*
Cable Assembly, Straight, RS-232, 9 pin D-sub, 15 feet	067364-005*
Cable Assembly, Straight, RS-232, 9 pin D-sub, 20 feet	067364-006*
Cable Assembly, Straight, 9440 Wand Emulation, 8 feet	067364-007
Cable Assembly, Straight, 9440 Wand Emulation, 15 feet	067364-008
Cable Assembly, Straight, 9440 Wand Emulation, 20 feet	067364-009
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 8 feet	067364-010
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 15 feet	067364-011
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 20 feet	067364-012
Cable Assembly, Straight, 9 pin STR Wand Emulation, 8 feet	067364-013
Cable Assembly, Straight, 9 pin STR Wand Emulation, 15 feet	067364-014
Cable Assembly, Straight, 9 pin STR Wand Emulation, 20 feet	067364-015
Cable Assembly, Straight, 10 pin T2455, Wand Emulation, 8 feet	067364-016

---

### ***Ordering Cables (continued)***

<b>Auxiliary Port Cables</b>	<b>Part No.</b>
Cable Assembly, Coil, 10 pin Wand Emulation, 3 feet	067365-001
Cable Assembly, Coil, RS-232, 9 pin D-sub, 3 feet	067365-002*
Cable Assembly, Coil, 9440 Wand Emulation, 3 feet	067365-003
Cable Assembly, Coil, 9465/9450 & J2050 Wand Emulation, 3 feet	067365-004
Cable Assembly, Coil, 9 pin STR Wand Emulation, 3 feet	067365-005

*\* Power on pin 9; no power supply required.*

**Note:** *The auxiliary cable does not support wedge interfaces.*

---

## ***Connecting the MicroBar 9745 Base Station***

You can connect the MicroBar 9745 base station to these Intermec products:

- 944X Portable Terminals
- 95XX Network Terminals
- TRAKKER® Antares™ 24XX Terminals
- 97XX Wedge Readers
- JANUS™ 2010 Terminals (J2010 and JG2010)
- 5900 Vehicle-Mount Terminal
- 1700 Hand-Held Terminal
- 64XX Hand-Held Terminals
- 65XX Vehicle-Mount Terminals

### To connect the base station

1. Turn off the reader and terminal.
2. Connect the cable to the base station.
  - If your cabling requires an external power supply, connect the power supply to either the base station power port or the Y jack. Plug the power supply in before any other cables.
  - If you use the base station in an environment where it can get wet, such as outside or by an open door, connect the auxiliary cable to the base station and cover the host port.
  - If you use the base station in a protected environment, such as inside a warehouse, connect the host cable to the base station.
3. Connect the other end of the cables to the reader or terminal and power supply.


For more help installing, configuring, and programming your base station, refer to the *Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual* (Part No. 067670). You can order the manual from Intermec or download the manual from the internet at [www.intermec.com](http://www.intermec.com).

### ***Configuring for Selected Terminals***

---

Before you can configure the base station, you need to associate the Sabre 1552 laser scanner to the base station. For help, see the *Sabre 1552 Laser Scanner User's Guide* (Part No. 067049). Use these instructions to configure the MicroBar 9745 base station to work with selected popular terminals or computers.

**To configure a base station for use with selected terminals**

1. Scan this bar code. Program Terminal Interface  

2. Locate your terminal or computer from this list and scan the two ID number bar codes representing your terminal.

Terminal/Computer	ID Number
<b>DEC VT220/ 320/420</b>	04
<b>IBM PC/AT, IBM PS/2 Model 50/60/80</b>	03
<b>IBM PC/XT</b>	01
<b>IBM PS2 Model 25/303/57</b>	02
<b>IBM ThinkPad</b>	97
<b>RS-232 terminals</b>	00

---

### *ID Number Bar Codes*



0



2



4



6



8



1



3



5



7



9

***Note:** Additional terminal ID numbers are available in the Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual (Part No. 067670). You can order the manual or find the manual on the internet at [www.intermec.com](http://www.intermec.com).*

## ***Troubleshooting the MicroBar 9745***

### ***Base Station***

---

This table describes common base station problems and provides possible solutions.

<b>Problem</b>	<b>Solution</b>
System is “jammed” and scanner will not operate.	The base station could not process the information. Turn off the power to the terminal and then turn it on. The base station will retain its configuration.
The base station light pulses four times.	There is a communication error. <ul style="list-style-type: none"><li>• Make sure the scanner is associated to the base station.</li><li>• Make sure the scanner is within the range of the base station, 50 feet (15 meters).</li><li>• Make sure that the base station is connected to the reader or terminal.</li></ul>
The base station cannot communicate with the reader or terminal.	Make sure that the cable connecting the base station to the reader or terminal is secured to both.  Make sure that the base station is configured for the correct reader or terminal. For help, see “Configuring for Selected Terminals” or the <i>Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual</i> (Part No. 067670).
The base station light flashes slowly.	The power up diagnostic failed. Unplug the power supply and then plug it back in. If the light flashes and then goes out, return the base station to your Intermec representative.
The base station light does not come on.	The base station is not receiving power. Make sure you are using the correct cable and that it is plugged in and the base station is on. Replace damaged cables.

If you continue to encounter problems with your base station, contact your local Intermec representative.



## ***Accessories for the MicroBar 9745 Base Station***

---

These accessories are available for your MicroBar 9745 base station. To order an accessory or the *Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual* (Part No. 067670), call your local Intermec representative.



9745QRG.002

### **Belt Clip Part No. 205019**

You can attach your base station to your belt so that it will always be in range of the Sabre 1552 laser scanner. You can use the belt clip with any belt.



9745QRG.001

### **Wall-Mount Bracket Part No. 067053**

You can mount the base station to the wall where it is out of the way and can receive and transmit signals clearly.