



Intermec



User's Guide



**MicroBar 9745
Base Station**

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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.

Country	Base Station
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.

For a list of the readers, terminals, and computers to which you can connect the base station, see “Connecting the MicroBar 9745 Base Station” on page 11.

Unpacking the MicroBar 9745 Base Station

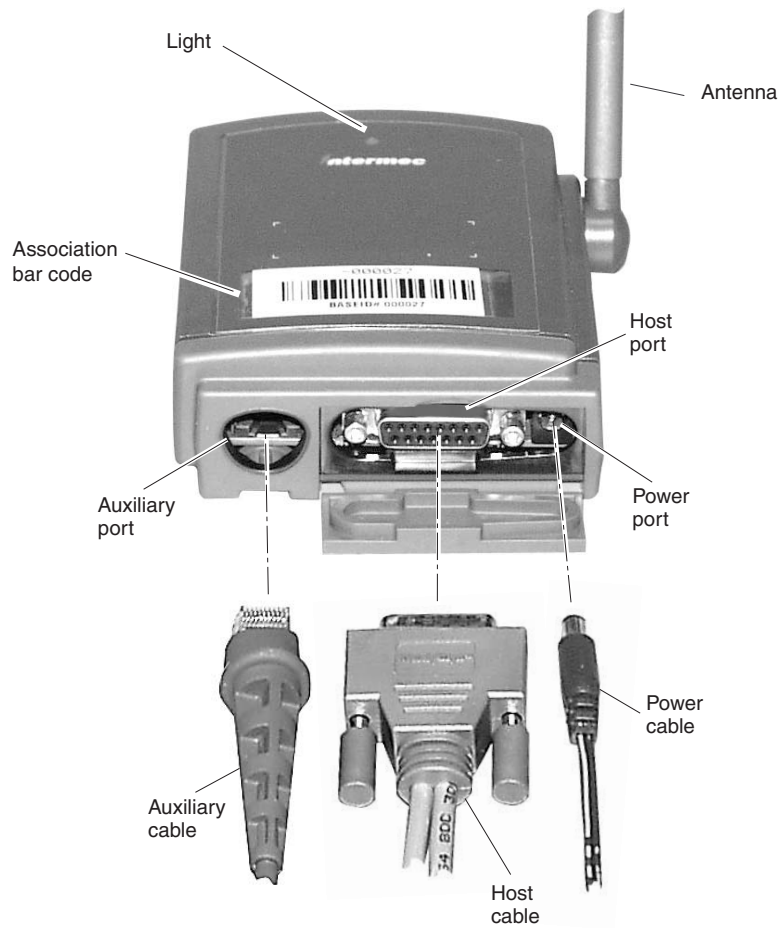
Your MicroBar 9745 base station was thoroughly tested and inspected before it was shipped from the factory. The shipping box contains:

- 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.



9745QRG.004

Light

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

Light Status	Description
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 the MicroBar 9745 Base Station” on page 16.
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: -20° to 50°C (-4° to 122°F)
Storage Temperature: -30° to 60°C (-22° to 140°F)
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 5 m (15 ft). RS-232 cables can extend to 15 m (50 ft). Wand emulation cables can extend to 6 m (20 ft). Auxiliary cables were designed mainly for portable applications.

Ordering Cables (continued)

Base Station to Host Cables	Part Number
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*
RS-232 9 pin D-sub, .91 m (3 ft)	067364-020

Ordering Cables (continued)

Base Station to Host Cables	Part Number
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, 1.22 m (4 ft)	42205853-104
Cable, Base, Extension, 3.05 m (10 ft)	42205853-110
Cable, Base, Extension	42205853-120
Cable, Base, Extension, 1.22 m (4 ft), with power	42205853-304
Cable, Base, Extension, 3.05 m (10 ft), with power	42205853-310
Cable, Base, Extension, 6.1 m (20 ft), with power	42205853-320
Download Cable, 3470/5770/1552	42205856-02
Download Cable, 2070/9745	42205866-03

* Requires one of these external power supplies:

- ~ 100V, 50/60 Hz (P/N 043230)
- ~ 120V, 60 Hz, North American plug (P/N 047793)
- ~ 240V, 50 Hz, United Kingdom plug (P/N 047794)
- ~ 220V, 50 Hz, Euro plug (P/N 047795)
- ~ PS/2 Mouse Cable, Power Pick-Up (P/N 590451)
- ~ Universal Power Supply (P/N 065236)

**External power Y jack available for power connection.

Ordering Cables (continued)

Auxiliary Port Cables	Part Number
Cable Assembly, Straight, 10 pin Wand Emulation, 2.43 m (8 ft)	067364-001
Cable Assembly, Straight, 10 pin Wand Emulation, 4.57 m (15 ft)	067364-002
Cable Assembly, Straight, 10 pin Wand Emulation, 6.1 m (20 ft),	067364-003
Cable Assembly, Straight, RS-232, 9 pin D-sub, 2.43 m (8 ft)	067364-004*
Cable Assembly, Straight, RS-232, 9 pin D-sub, 4.57 m (15 ft)	067364-005*
Cable Assembly, Straight, RS-232, 9 pin D-sub, 6.1 m (20 ft),	067364-006*
Cable Assembly, Straight, 9440 Wand Emulation, 2.43 m (8 ft)	067364-007
Cable Assembly, Straight, 9440 Wand Emulation, 4.57 m (15 ft)	067364-008
Cable Assembly, Straight, 9440 Wand Emulation, 6.1 m (20 ft),	067364-009
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 2.43 m (8 ft)	067364-010
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 4.57 m (15 ft)	067364-011
Cable Assembly, Straight, 9465/9450 & J2050 Wand Emulation, 6.1 m (20 ft),	067364-012
Cable Assembly, Straight, 9 pin STR Wand Emulation, 2.43 m (8 ft)	067364-017
Cable Assembly, Straight, 9 pin STR Wand Emulation, 4.57 m (15 ft)	067364-018
Cable Assembly, Straight, 9 pin STR Wand Emulation, 6.1 m (20 ft),	067364-019
Cable Assembly, Straight, 10 pin T2455, Wand Emulation, 2.43 m (8 ft)	067364-016

Ordering Cables (continued)

Auxiliary Port Cables	Part Number
Cable Assembly, Coil, 10 pin Wand Emulation, .91 m (3 ft)	067365-001
Cable Assembly, Coil, RS-232, 9 pin D-sub, .91 m (3 ft)	067365-002*
Cable Assembly, Coil, 9440 Wand Emulation, .91 m (3 ft)	067365-003
Cable Assembly, Coil, 9465/9450 & J2050 Wand Emulation, .91 m (3 ft)	067365-004
Cable Assembly, Coil, 9 pin STR Wand Emulation, .91 m (3 ft)	067365-006

** 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 base station to these terminals and computers:

- 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

Or you can connect the base station to these Intermec readers and terminals:

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

To connect the base station to a terminal, computer, or reader

1. Turn off the terminal, computer, or reader.
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 each cable to the terminal, computer, reader, 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*. For help finding this manual, see “Where to Find More Information” on page 18.

Associating the Scanner to the Base Station

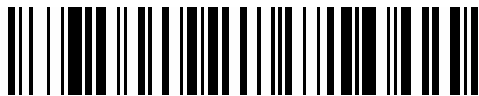
You must associate the Sabre 1552 laser scanner to the base station by using the 1552 laser scanner to scan the Base ID bar code label attached to the top of the base station.

Configuring for Your Terminal or Computer

You must configure the MicroBar 9745 base station to work with your terminal or computer.

To configure a base station for your terminal or computer

1. Scan this bar code:



Program Terminal Interface

2. Locate your terminal or computer in the following list.

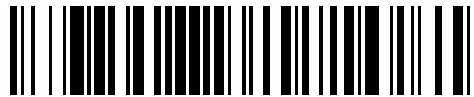
Terminal or Computer	Two-Digit ID Number	Three-Digit ID Number
DEC VT220/320/420	04	004
IBM PC/AT, IBM PS/2 Model 50/60/80	03	003
IBM PC/XT	01	001
IBM PS2 Model 25/303/57	02	002
IBM ThinkPad	97	097
RS-232 terminals	00	000

Note: If you cannot find your terminal or computer in this list, see the Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual, which contains a more extensive list.

3. Use the bar codes on the next page to scan the three-digit ID number for your terminal or computer.

Note: Most base stations contain software that requires you to use the three-digit ID number instead of the two-digit ID number. If you fail the verification test in Step 5, you will repeat these steps and scan the two-digit ID number.

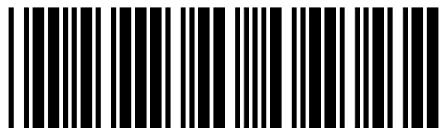
4. Scan this bar code to save the changes:



Save

5. Scan this sample Code 39 bar code to verify that the base station is communicating with the terminal or computer:

Code 39



BC321

If BC321 appears on the terminal or computer screen, the base station is communicating and is ready for normal operation.

If BC321 does not appear on the terminal or computer screen, the base station is not communicating. Repeat Steps 1 to 5, and make sure you scan the two-digit ID number for your terminal or computer in Step 3.

If the data still does not appear, contact your local Intermec representative.

ID Number Bar Codes



0



2



4



6



8



1



3



5



7



9

Troubleshooting the MicroBar 9745 Base Station

This table describes common base station problems and provides possible solutions. If you continue to encounter problems with your base station, contact your local Intermec representative.

Problem	Solution
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">• Make sure the scanner is associated to the base station.• Make sure the scanner is within the range of the base station, 15 m (50 ft).• Make sure that the base station is connected to the reader or terminal.
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 Your Terminal or Computer” on page 13 or the <i>Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual</i> .
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.

Accessories for the MicroBar 9745 Base Station

These accessories are available for the MicroBar 9745 base station.



9745QRG.002

Belt Clip (P/N 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 (P/N 067053)

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

To order an accessory, call your local Intermec representative.

Where to Find More Information

For more information about configuring and using the 9745 base station, see the *Sabre 1552 Laser Scanner and MicroBar 9745 Base Station System Manual*. Two versions of this manual are available:

- P/N 070086 is for customers with 1552 software v3.25 (or higher) and 9745 software v3.31 (or higher).
- P/N 067607 is for customers with 1552 software before v3.25 and 9745 software before v3.31.

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