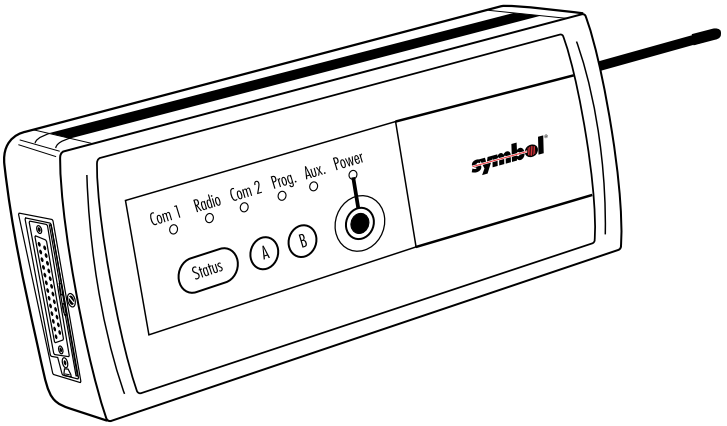
symbol®

RF Modem 3010



Quick Reference

Symbol Technologies, Inc.
116 Wilbur Place
Bohemia, NY 11716 U.S.A.

Quick Reference

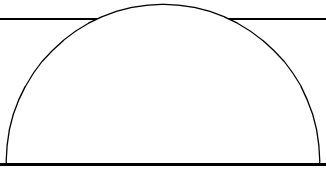
Overview

The RF Modem 3010 is a portable computer which acts as an RS-232 bridge into the Spectrum One® network.

There are two models of the RFM 3010 (both models have a standard RS-232 port, an internal radio transmitter, and an RJ-41 port):

- **RFM 3010-0T00**: has 256K of RAM
- **RFM 3010-0500**: has 512K of RAM and a DE-9 scanner port for barcode data input.

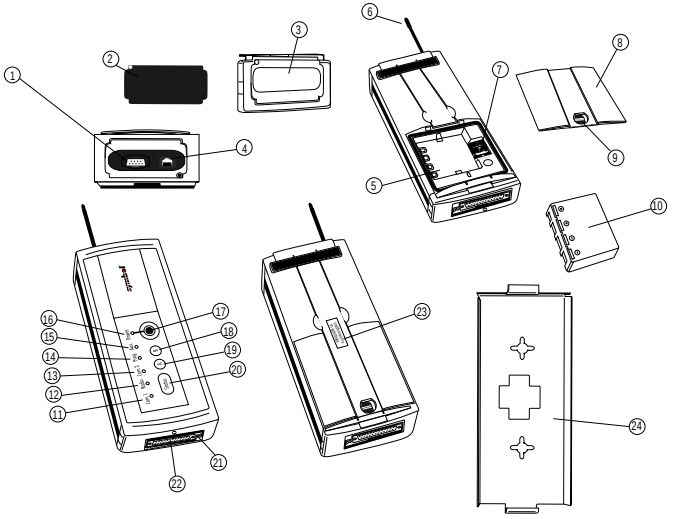
The RFM 3010 can be battery-powered for portable applications. It uses the DR-DOS operating system, which is compatible with the industry- standard IBM PC-DOS. Using DR-DOS provides access to a number of of commercially available programming tools. Additional programming tools, available from Symbol Technologies, make programming easier and provide access to special features. See the *Series 3000 Application Programmer's Reference Manual*, p/n 59045-00-93 for more information on DR-DOS and other Symbol programming tools.



About This Guide

This guide provides quick access to instructions needed by the system operator. Additional operation instructions are included in the RF Modem 3010 Product Reference Guide.

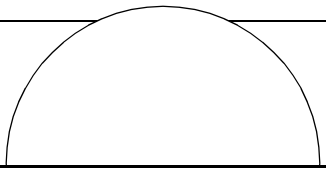
Parts of the RFM 3010



Quick Reference

Parts of the RFM 3010 (cont'd)

1. Scanner Port (DE-9) (optional)
2. End Cap seal
3. End Cap
4. Com2 Port (RJ-41)
5. Battery compartment
6. Antenna
7. Serial I.D. number label
8. Battery compartment cover
9. Battery compartment lock
10. Battery (optional)
11. Com1 indicator light
12. Radio indicator light
13. Com2 indicator light
14. Prog. indicator light
15. Aux. indicator light
16. Power indicator light
17. Power button
18. B button
19. A button
20. Status button
21. AC Power jack
22. Com1 Port (RS-232/RS-422
23. Manufacturing label/FCC label
24. Wall mounting bracket (optional)



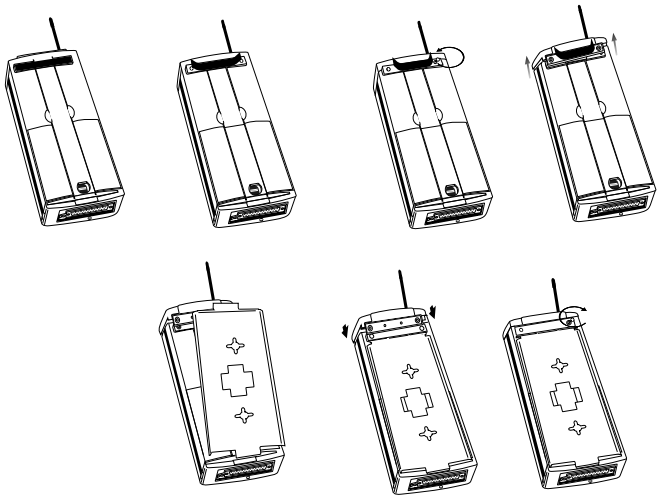
Wall Mounting the RFM 3010

An optional wall mounting bracket is available for the RF Modem 3010.

The wall mount may be used with either model of the RFM 3010. To attach the wall mount:

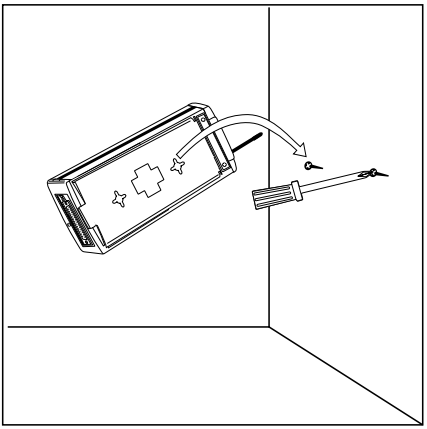
1. Peel back the both the left and right sides of the rubber pad on the back of the terminal, located just below the top end cap.
2. Remove the two screws located behind the rubber pad.
3. Lift the end cap off the top of the terminal.
4. Remove the rubber pad. (Retain the rubber pad for future desk-mounting).
5. Hook the U-shaped end of the mounting bracket onto the bottom of the terminal.
6. Place the L-shaped end of the mounting bracket into the space vacated by the end cap removed in step 3.
7. Put the end cap back on top of the terminal. The back part of the end cap must be on the outside of the L-shaped end of the mounting bracket.

8. Re-attach the screws removed in step 2.



There are two ways to attach the wall mount to the wall:

1. Fasten two No. 10 screws 4.0 inches apart on the wall.
2. Align the wall mounting bracket grooves above the screws, push in and slide, firmly securing the terminal to the wall.



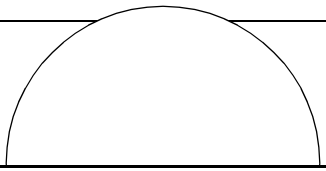
Or:

Place the center mounting bracket groove on top of an RJ Adapter plate (standard telephone wall mounting plate).

Battery Maintenance

Primary power for the RFM 3010 is provided through either an AC power adapter, or through a rechargeable, nickel cadmium (NiCad) battery pack.

To prevent loss of data while replacing batteries, the RFM 3010 has a super capacitor, which provides sufficient power to preserve the contents of memory for the time needed to replace system batteries. As many conditions can affect this duration, it is recommended that batteries are replaced in battery compartment as soon as possible. Do not remove the main battery until you are ready to replace, or temporary memory will be lost.

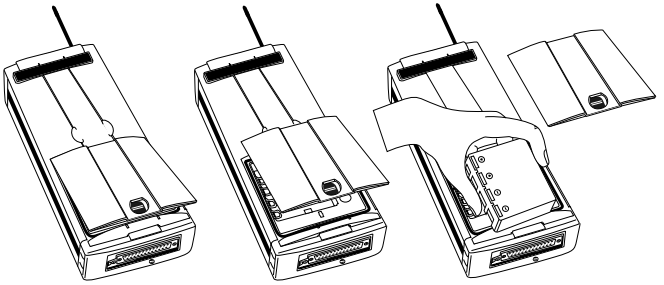


Replacing the NiCad Battery Pack

To remove and replace the NiCad battery pack:

1. Power off the RFM 3010.
2. Unlock the battery cover latch and remove the battery compartment cover.
3. Lift the battery out of the compartment.

Install a fully charged battery pack in the battery compartment and replace the battery compartment cover. Make sure the positive(+) and negative(-) contacts are in the proper position, as indicated in the battery compartment.



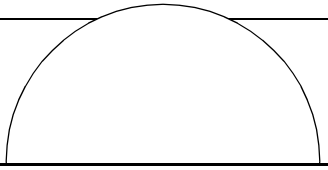
Charging the Battery Pack

To charge the NiCad battery pack using an AC adapter:

1. Power off the RFM 3010.
2. Plug the power plug end of the cable into the AC power jack port on the RFM 3010. Plug the wall cube into the outlet.
3. If the RFM 3010 is not going to be used while it is charging, leave the power off while charging. Otherwise, power the RFM 3010 on and continue using.

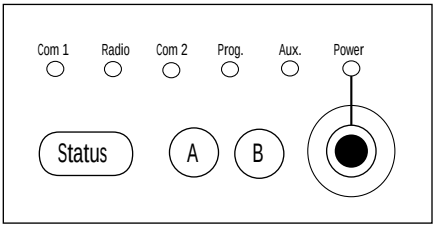
   The RFM 3010 will be fully recharged in 8 to 10 hours.

To recharge the battery pack outside of the RFM 3010, use the Symbol Universal Battery Charger. Using this charger, up to four NiCad packs can be charged at one time.



Power On and Off

To turn the RFM 3010 on or off, press the **Power** button:



Forcing Power Off

If pressing **Power** does not turn the terminal off, you should force the power off. This reduces battery drain and preserves your data.

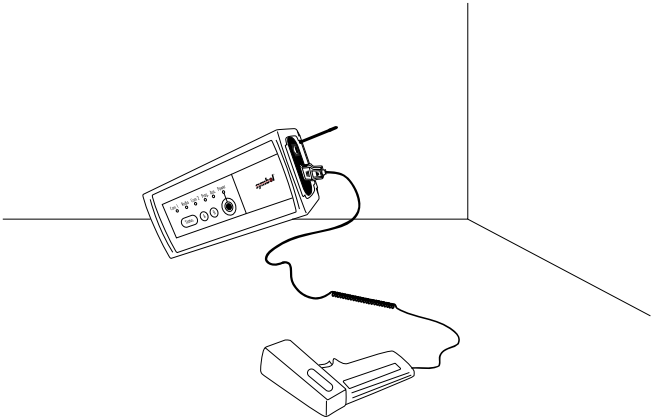
To force power off, press and hold **Power** for 20 seconds, until the terminal powers off.

Do not attempt to turn on and continue using the terminal. Return the terminal to your system administrator to recover any data and correct the problem.

Attaching a Scanner

To attach a scanner to the RFM 3010:

1. Power off the RFM 3010.
2. Remove the rubber cover from the top of the RF Modem 3010.
3. Plug in the scanner. Make sure the plug is inserted firmly.



Note

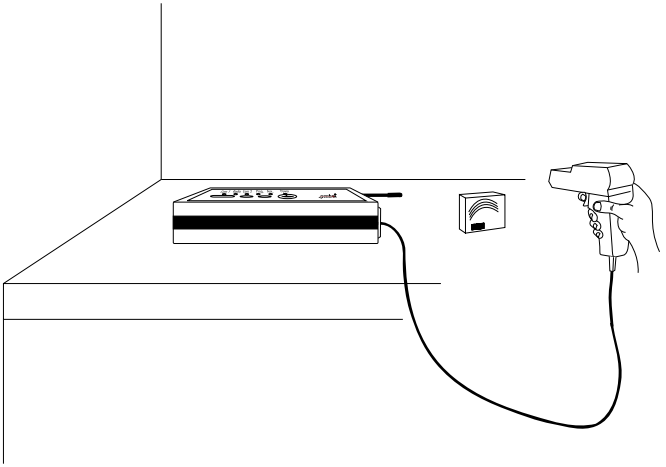
If you will only be using the DE-9 port on the top of the RFM 3010, you may cut the rubber cover along the seam in the middle, and discard the section of the cover which covers the DE-9 scanner port. Similarly, if you will only be using the RJ-41 port and not the DE-9 port, you may cut the rubber cover along the seam in the middle, and discard the section of the cover which covers the RJ-41 port.

Using a Laser Scanner

Note:

The LS 7000 scanner may not be used with this modem.

1. Power on the system and the scanner by pressing **Power** or pulling the scanner trigger.
2. Point the laser scanner at the bar code. Pull the trigger and adjust the aim so the red laser beam covers the entire bar code.

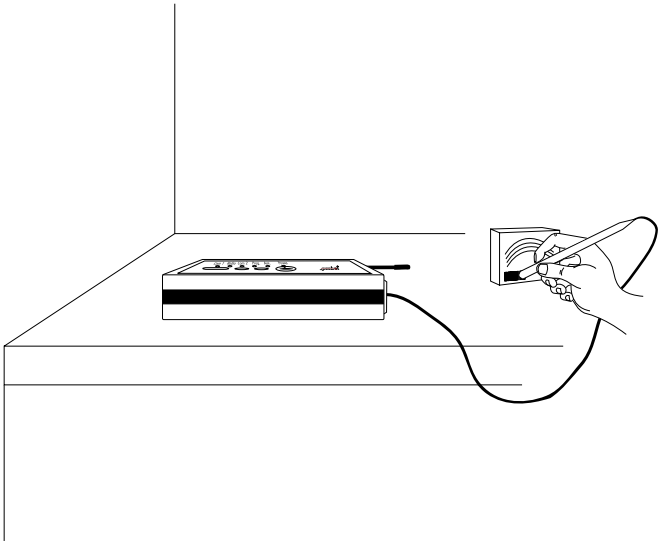


Note:

For the optimal scanning distance of a detachable scanner, consult the scanner operator's manual.

Using A Contact Wand Scanner

1. Press **Power** to power on the terminal.
2. Holding the wand at a 90 to 45 degree angle, lightly touch the tip of the wand to bar code.



3. Draw the scanner smoothly and at a moderate speed across the entire bar code.

LED Descriptions

LED	Description
COM1	Indicates communications status on COM1.
Radio	Indicates communication status on the radio.
COM2	Indicates communication status on COM2.
Prog.	Used during program download/ can be programmed.
Aux	User-application defined.
Power	Indicates power and low battery power. See RFM 3010 Product Reference Manual for more details.

Key Descriptions

Key	Description
Status	If the RFM 3010 is not plugged into the wall charger, status of COM1, COM2, and radio can be obtained by pressing this key.This key is also used during boot sequences.
A	User-application defined.
B	Used for boot sequences, also user-application defined.
Power	Used to power on and off the RFM 3010.

Troubleshooting

Troubleshooting Chart

Symptom	Possible Cause	Suggested Action
No power indicator	Battery pack is dead or missing, or terminal is not plugged into the wall charger.	Replace or recharge battery.
RFM 3010 does not respond when keys are pressed.	Application program was not downloaded successfully	Repeat download, reboot, cold boot.
Scanner will not operate	Scanner connection is loose or disconnected.	Reconnect scanner cable.
	Scanner is broken.	Replace scanner.
	Scanning head needs cleaning.	Clean scanner head.
	Bar codes do not meet industry standards	Try scanning another bar code.
Time and date are incorrect.	Real-time clock needs to be reset.	Refer to the Series 3000 Application Programmer's Reference Manual (p/n 59045-00-93) for additional information.

Symbol Support Centers

In the U.S.A, for service information,
warranty information or technical assistance call:

SYMBOL SUPPORT CENTER
1-800-653-5350

If you purchased your Symbol product from a
Symbol Business Partner,
contact that Business Partner for service.

Canada

Mississauga, Ontario

Canadian Headquarters
(905) 629-7226

Europe

Wokingham, England

European Headquarters

734-771-222 (Inside UK)
011-44-734-771222 (Outside UK)

Japan

Tokyo

Olympus Symbol, Inc.
011-81-3-3348-0211

Notes

Patents

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No.4,360,798; 4,369,361; 4,387,297; 4,460,120; 4,496,831; 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,321,246; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,850,078; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250.

Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan).

European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713.

rev. 1/99

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Revision B — April 1999