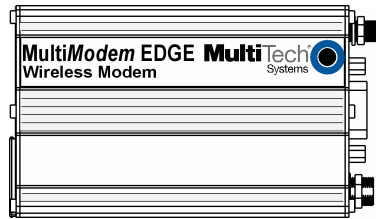

MultiModem[®] EDGE

Wireless Modem

MTCBA-E



Quick Start Guide



Quick Start

MultiModem® Wireless EDGE Modem
MTCBA-E
82010743L, Revision D

Copyright © 2005-6 by Multi-Tech Systems, Inc.

This publication may not be reproduced, in whole or in part, without prior expressed written permission from Multi-Tech Systems, Inc. All rights reserved.

Multi-Tech Systems, Inc. makes no representations or warranty with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose.

Furthermore, Multi-Tech Systems, Inc. reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Multi-Tech Systems, Inc. to notify any person or organization of such revisions or changes. Check Multi-Tech's Web site for current versions of our product documentation.

Record of Revisions

Revision	Date	Description
B	01/27/06	Add the fused DC power cable information.
C	06/13/06	Moved the AT Command section to the User Guide. Changed the format to a booklet.
D	06/22/06	Changed location of Activation Notices. Added note about current document on Web site.

Trademarks

Trademarks and registered trademarks of Multi-Tech Systems, Inc. include MultiModem, the Multi-Tech logo, and Multi-Tech. All products or technologies are the trademarks or registered trademarks of their respective holders.

Technical Support

Country	By Email	By Phone
France:	support@multitech.fr	+(33) 1-64 61 09 81
India:	support@multitechindia.com	+91 (124) 2340780
Europe, Asia, Africa:	support@multitech.co.uk	+(44) 118 959 7774
U.S., Canada, all others:	support@multitech.com	(800) 972-2439 or +763-717-5863

World Headquarters

Multi-Tech Systems, Inc.
2205 Woodale Drive
Mounds View, Minnesota 55112
(763) 785-3500 or (800) 328-9717
Fax 763-785-9874
Internet Address: <http://www.multitech.com>

Introduction

The purpose of this guide is to show you how to set up your MultiModem EDGE wireless modem. For information on operating and configuring your modem see the User Guide, which is available on the MultiModem CD and the Multi-Tech Web site.

See the Multi-Tech Web site for the latest version of user documentation.

General Safety

The modem is designed for and intended to be used in fixed and mobile applications. "Fixed" means that the device is physically secured at one location and is not able to be easily moved to another location. In a "Mobile" application, the device may be moved regularly from one location to another.

Caution: Maintain a separation distance of at least 20 cm (8 inches) between the transmitter's antenna and the body of the user or nearby persons. The modem is not designed for, nor intended to be, used in applications within 20 cm (8 inches) of the body of the user.

RF Interference Issues

Avoid possible radio frequency (RF) interference by carefully following the safety guidelines below.

- Switch OFF the MultiModem when in an aircraft. The use of cellular telephones in aircraft is illegal. It may endanger the operation of the aircraft and/or disrupt the cellular network. Failure to observe this instruction may lead to suspension or denial of cellular services to the offender, legal action, or both.
- Switch OFF the MultiModem in the vicinity of gasoline or diesel-fuel pumps or before filling a vehicle with fuel.
- Switch OFF the MultiModem in hospitals and any other place where medical equipment may be in use.
- Respect restrictions on the use of radio equipment in fuel depots, chemical plants, or in areas of blasting operations.

- There may be a hazard associated with the operation of your MultiModem in the vicinity of inadequately protected personal medical devices such as hearing aids and pacemakers. Consult the manufacturers of the medical device to determine if it is adequately protected.
- Operation of the MultiModem in the vicinity of other electronic equipment may cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers' recommendations.

Vehicle Safety

- Do not use your MultiModem while driving.
- Respect national regulations on the use of cellular telephones in vehicles. Road safety always comes first.
- If incorrectly installed in a vehicle, the operation of MultiModem telephone could interfere with the correct functioning of vehicle electronics. To avoid such problems, be sure that the installation has been performed by qualified personnel. Verification of the protection of vehicle electronics should be part of the installation.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Package Contents

Single Package (one unit)	Bundled Package (multiple units)
1 modem 1 mounting bracket 1 fused DC power cable 1 Quick Start Guide 1 MultiModem CD Note: You must supply: Screws for the bracket An antenna	<i>Each individual package in the bundle includes the following:</i> 1 modem 1 mounting bracket 1 RS232 cable (15-to-9 pin) 1 antenna 1 power supply 4 rubber feet 1 Quick Start Guide 1 MultiModem CD Note: You must supply screws for the bracket.

Note: Your wireless provider will supply the SIM card.

Activate Your Wireless Account

Multi-Tech – A Certified National Activation Agent

Multi-Tech Systems, Inc. is a certified national activation agent for Cingular and Sprint wireless. For more information about available data plans and to purchase and activate a wireless data account, contact Multi-Tech at 888-288-5470.

Pre-Configured Multi-Tech Products

Each Multi-Tech wireless product has been pre-configured to operate on a wireless network.

Activate Your Wireless Account

Please see the wireless account Activation Notices located on the MultiModem CD. Choose the one for your wireless network provider and follow the directions to activate your account.

Phone Numbers for the Wireless Modem

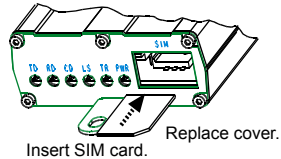
Every wireless modem will have its own unique phone number. The phone number may simply be given to you by your wireless service provider or it may be on the SIM card or both. Wireless provider implementations may vary.

Inserting SIM Card into Holder

The wireless modem requires a SIM card (Subscriber Identity Module) to operate on a GSM/GPRS or EDGE network. To install the SIM card:

1. Using your fingernail or a small screwdriver, pry off the SIM cover.
2. Insert the SIM card into the SIM card slot. The following graphic illustrates the correct SIM card orientation.

Wireless Service Provider
will give you a SIM card.



3. Verify that the SIM card fits properly. Then replace the cover.

Hook up the Antenna, Serial Cable, and Power

- **Antenna.** Connect a suitable antenna to the SMA connector (see the User Guide for antenna/RF specifications).
- **Serial Cable.** Connect one end of the serial cable to the modem and the other end to a PC.
- **Power.** Plug the power supply into the wireless MultiModem.

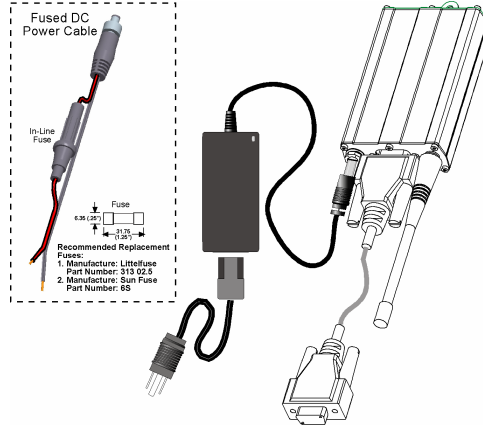
For standard transformer power supply:

- * Connect the AC cord and its transform block.
- * Connect the AC cord plug into the main power outlet.

Note: Units shipped with the universal AC power supply are not suited for installation in hazardous locations.

For optional direct-DC powering:

- * Connect the fused DC power cable into the power source on a vehicle or machine in which you are mounting the MultiModem. Be sure the GNS connection is correct.
- * Connect the red wire to the + positive and the black wire to the - negative.



Note

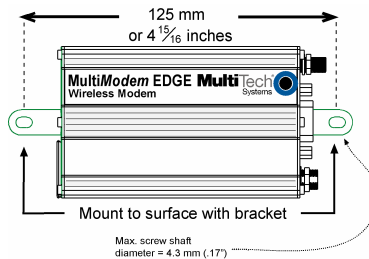
For automotive applications, you can use permanent “+” or key-switched “+” according to the type of application. Connect the power supply to its source (for example, in a mobile situation, to the vehicle’s DC fuse/terminal block).

Warning

Do not connect your wireless modem directly to a vehicle’s battery for your power source. Doing so may cause power spikes. If you wish to use the battery as a power source, add a filtering device to the DC input.

Optional – Attach the Modem to Flat Surface

The MultiModem is mounted against a flat surface with the mounting bracket and two mounting screws. Drill the mounting holes at the desired mounting location. The mounting holes must be separated by 125mm (4 -15/16 inches) center-to-center. Slide the mounting brackets into slot on the back side of the MultiModem chassis. Attach the MultiModem to the surface with two mounting screws.



Modem Driver Installation

Compatibility: The wireless modem is compatible with Windows 2000/2003+, Windows XP, and Linux.

Windows: To load the MultiModem wireless modem's Windows driver onto your PC, select the Control Panel's *Phone and Modem Options* option. During this installation, you will be required to browse the MultiModem CD to load the modem's INF file. This file is located at the root directory on the MultiModem CD. See the User Guide for information that will detail each step for loading the driver.

Linux: Linux does not require a driver for serial modems.

AT Commands

AT commands can be used to operate, configure, and query your modem. An AT Command Reference Guide to the EDGE commands is included on the MultiModem CD and on the Multi-Tech Web site.

For examples of how to use some common operating, configuring, and querying commands, see the User Guide.

Internet Access

See the User Guide for Internet access directions.

Using Mobile PhoneTools

Mobile PhoneTools is a communication software program included on your MultiModem CD. You can install this program onto your PC and use it for making Internet connections, voice calls, SMS messaging, and email. This program allows you to use your wireless modem hooked up to your PC as if it were a cell phone.

