

USER MANUAL

DWM-152

VERSION 1.1



D-Link[®]

MOBILE

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.1	January 20, 2010	DWM-152 Revision for updated firmware

Trademarks

D-Link and the D-Link logo are trademarks or registered trademarks of D-Link Corporation or its subsidiaries in the United States or other countries. All other company or product names mentioned herein are trademarks or registered trademarks of their respective companies.

Copyright © 2010 by D-Link Systems, Inc.

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

Table of Contents

Preface	2	Usage	18
Manual Revisions	2	Statistics	18
Trademarks	2	Connection History	19
Introduction.....	4		
Features	4	Text Messaging (SMS)	20
		New/Reply/Forward Text Message	21
Product Overview	5	Deleting a Message	21
Package Contents	5	Saving a Sender to Contacts	21
System Requirements	5	SMS Settings.....	22
Hardware Overview	6		
LED Indicator Information.....	7	Contact Management	23
		Adding Contacts	23
Installation	8	Editing Contacts	24
SIM Card Installation	8	Deleting Contacts	24
MicroSD Card Installation.....	9		
Software Installation	10	SIM Management	25
Running the Installer.....	11	Enabling or Disabling a PIN Code	25
Uninstalling the DWM-152.....	13	Changing a PIN Code.....	26
		Unlocking a PIN Code	26
Basic Functions	14		
Software Overview	14	Profile Settings	27
New Profile	15	Band Settings	27
Create Profile.....	15	Network Selection.....	28
Establishing a Connection	16		
Ending a Connection	16	Troubleshooting	29
Profile Management	17	Glossary	30
		Technical Specifications	33

Introduction

The 3.5G HSDPA USB Adapter allows users with a computer to connect to mobile broadband networks (HSDPA/UMTS/GPRS/GSM/EDGE). While connected, users can transfer data, stream media, and send SMS messages. The adapter uses a standard USB interface for fast and simple installation.

Features

- Compact and sleek mobile adapter easily fits in your pocket
- Provides HSDPA/UMTS/GPRS/GSM/EDGE network support
- GSM circuit-switched (CSD) data transfer for multimedia
- Plug-and-Play: No CD-ROM required
- Connection software launches quickly and automatically
- Convenient USB connector requires no additional cables
- MicroSD card reader slot for optional removable storage
- Send group SMS messages to up to 25 contacts simultaneously
- Store up to 1000 outgoing SMS (depending on SIM card capacity)
- Control incoming calls with forwarding, busy tone, or continuous ringing

Product Overview

Package Contents

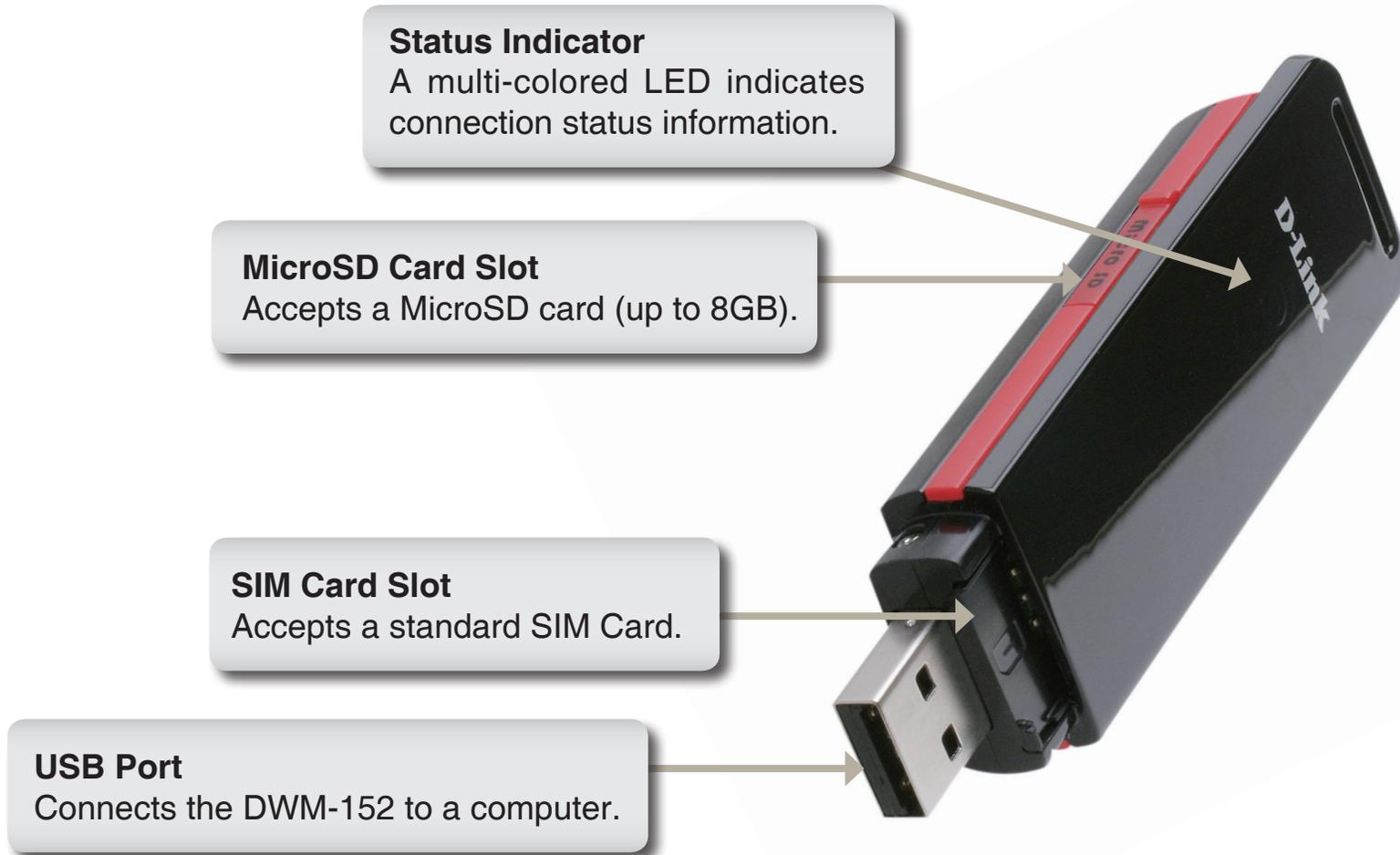


D-Link DWM-152 - 3.5G HSDPA USB Adapter

System Requirements

- **Operating System:** Mac OS X 10.4 or higher
- **CPU:** PowerPC G3 processor or higher
- **RAM:** 256 MB
- **Hard Disk:** 64 MB
- **USB Port:** 2.0 interface

Hardware Overview



LED Indicator Information

Color	Service	Blinking	Solid
Yellow	System	–	Device Initializing / No Signal
Red	SIM Card Service	Searching	Error (No SIM / Invalid SIM)
Green	WCDMA	Registered	Connected
Blue	HSDPA	–	Connected
Purple	GPRS/ EDGE	Registered	Connected

Installation

SIM Card Installation

Follow the steps below to install a SIM card:

1. Remove the cover from the end of the adapter.
2. Pull out the SIM card tray. (Figure 1)
3. Insert the SIM card with the gold contacts facing down. (Figure 2)
4. Push the SIM card tray back into the adapter. (Figure 3)
5. Connect the adapter to a USB port on your computer. (Figure 4)

Note: To remove an installed SIM card, pull out the SIM card tray and gently lift the card.



Figure 1



Figure 2



Figure 3



Figure 4

MicroSD Card Installation

The DWM-152 has a slot which can read MicroSD cards with capacities of up to 8GB.

Follow the steps below to install a MicroSD card:

1. Unplug the DWM-152 USB adapter from the computer.
2. Gently lift the upper left corner of the MicroSD card slot cover. (Figure A)
3. Insert the MicroSD card with the gold contacts facing towards the top of the adapter. (Figure B)
4. Close the MicroSD card slot cover. (Figure C)
5. Plug the DWM-152 into a USB port on your computer.
6. The computer may take a moment to recognize the device.
7. A new removable disk will appear in your computer's list of storage drives.

Note: To remove a MicroSD card, unplug the device from the computer. Open the card slot cover and gently push the card in to eject it.



Figure A



Figure B

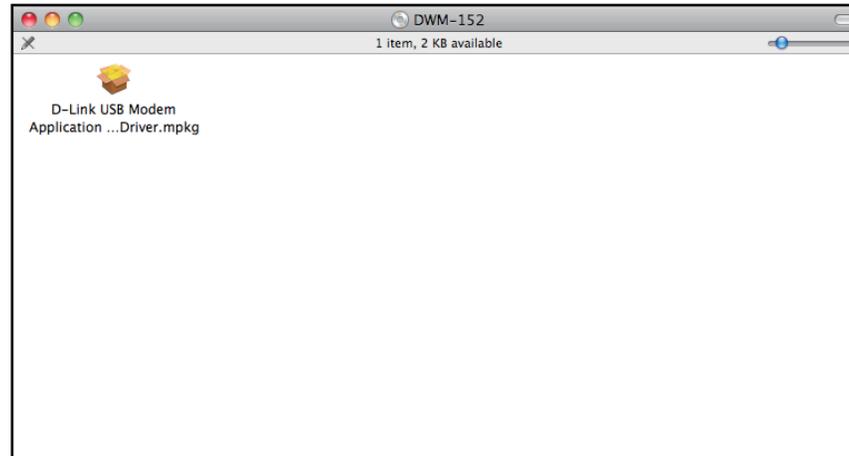


Figure C

Software Installation

Before you install the software, you must first install a SIM card into the USB adapter and connect the adapter to a USB port on your computer.

1. Click on the CD icon labeled **DWM-152** on your desktop.
2. In the folder view, double-click on the package icon labeled **D-Link USB Modem Application ...Driver.mpkg**.



3. The installer will now be launched.

Running the Installer

1. The installer will be displayed. Click **Continue** to proceed.
2. Next, the **Read Me** window will be displayed. It contains the adapter's firmware version and other information related to the software. Click **Continue** to proceed.



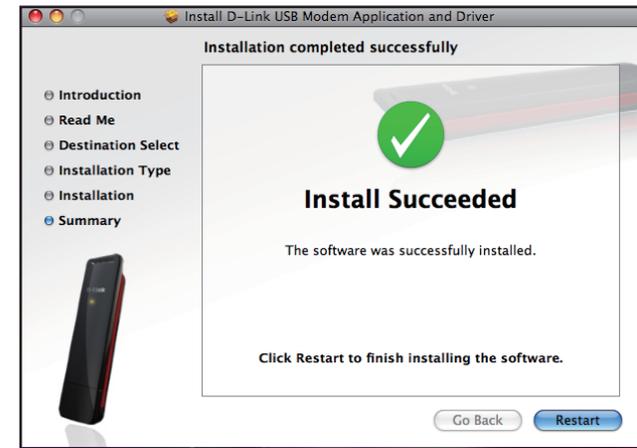
3. The **Installation Type** window will appear. Click **Customize** if you wish to install a specific package.

You also have the option of changing the installation location. Click **Change Install Location** if you wish to do so. Otherwise, the default volume will be used.

Click **Install** when you are ready to proceed.



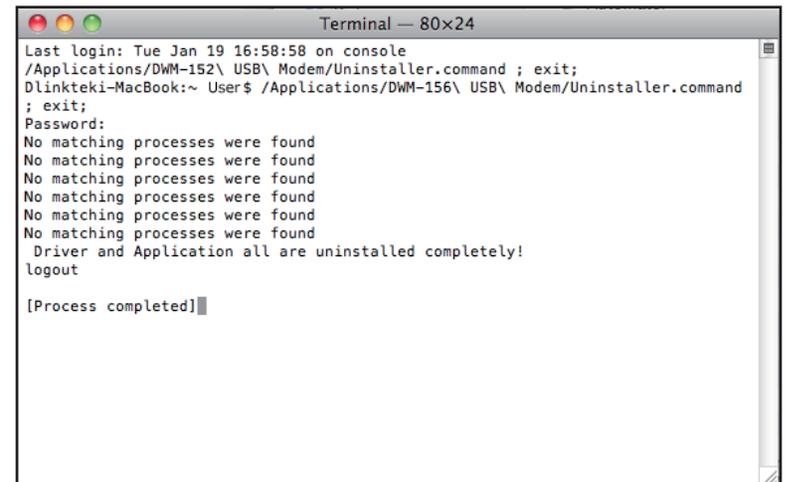
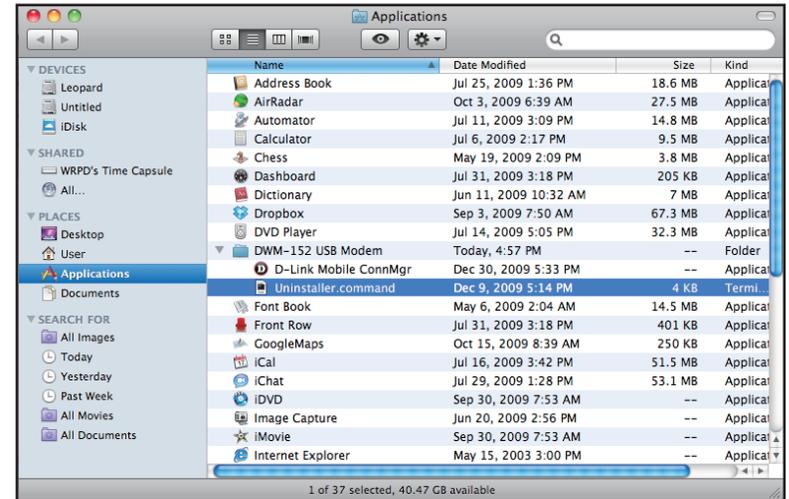
4. The application will be installed to the location specified.
5. Once the installation process is successfully completed, a window appear to inform you. You may now click the **Restart** button to complete the installation.



Uninstalling the DWM-152

If for any reason you need to uninstall the DWM-152 Driver and Connection Manager Software, please follow the instructions below.

1. Disconnect the DWM-152 mobile adapter from your computer.
2. Open the Applications menu (⇧⌘A).
3. Open the folder Labeled **DWM-152 USB Modem**.
4. Double click on the script labeled **Uninstaller.command**.
5. Enter your password, if prompted, when the terminal window appears.
6. The script will run and notify you once the Driver and Application have been uninstalled. You may close the terminal window.
7. Restart your computer to complete the uninstallation.



Basic Functions

Software Overview

Once the program has been installed, you may launch the DWM-152 USB Modem application by clicking on its icon in the dock or via the Applications menu (⇧⌘A).



Once launched, the D-Link Mobile Connection Manager window will be displayed. The D-Link Mobile Connection Manager provides all of the functions needed to manage your connection to a mobile service network.



New Profile

1. Click the **Profile** button.
2. Click the **New** button to open the New Profile window.



Create Profile

1. Enter the Profile Name, Phone Number, and APN (Access Point Network)
2. Select the Authentication Type.
3. Click **Save Account** if you would like to save the username and password between login sessions.
4. If desired, click the check box to set this as the default profile.
5. Click **Next** to continue.

A screenshot of a software dialog box titled "Add Profile". The dialog has a "Basic Setting" tab selected. It contains the following fields and options:

- Profile Name: A text input field containing "Name".
- Phone Number: A text input field containing "*99#".
- APN: An empty text input field.
- Authentication: A section with three radio buttons: "None", "PAP" (which is selected), and "CHAP".
- Save Account: A checked checkbox.
- User Name: A text input field containing "Name".
- Password: A password input field with four dots.
- Set as Default Profile: An unchecked checkbox.
- Buttons: "Cancel" and "OK" buttons at the bottom right.

Establishing a Connection

You can click the Connect button to connect to the network via the default profile. Once connected, the icon on the right side of the window will display a green checkmark instead of a red X. Once connected, you can use the mobile service network to browse the Internet, send e-mail, send text messages, and perform other tasks online.



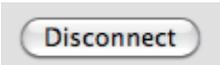
Connect

Note: The Connect/Disconnect button will be grayed-out when no SIM card is present.)



Ending a Connection

If you wish to disconnect, click the **Disconnect** button.

A rectangular button with rounded corners and a gray background, containing the text "Disconnect" in a white sans-serif font.

Disconnect

Profile Management

Under the Profiles icon, users can create, edit and delete profiles as well as preset profiles.



Profile

Editing a Profile

1. Click the **Profile** button.
2. Select a profile and click the **Edit** button.
3. Click the appropriate tab and enter the information in the fields.
4. Click **OK** to close the Edit Profile window.

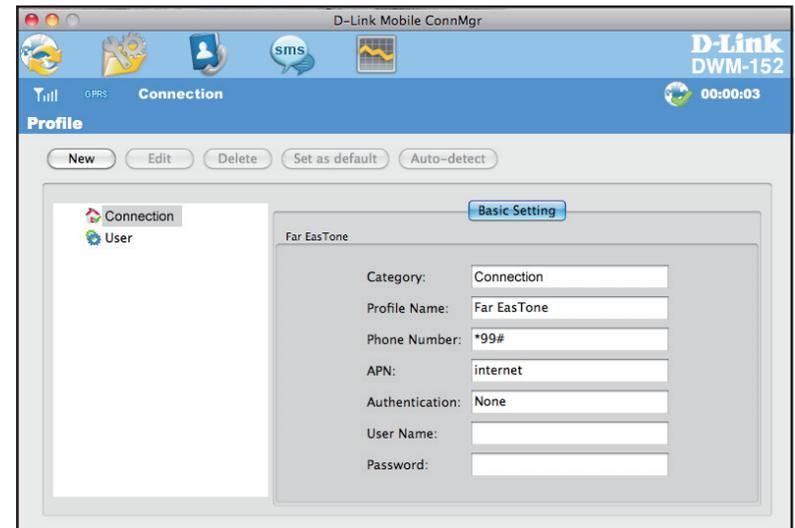
Note: Profiles may only be edited when you are disconnected.

Deleting a Profile

1. Click the **Profile** button.
2. Select a user-defined profile and click the **Delete** button.
3. Click **Yes** to confirm the deletion.

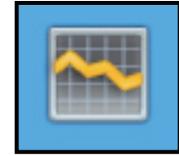
Setting the Default Profile

1. Click the **Profile** button.
2. Highlight the profile to use when the DWM-152 is started.
3. Click **Set as Default** profile.



Usage

The Usage window allows users to manage not only the current connection (if connected), but also their connection history. Click the Connection Info button to open the Connection Information window.



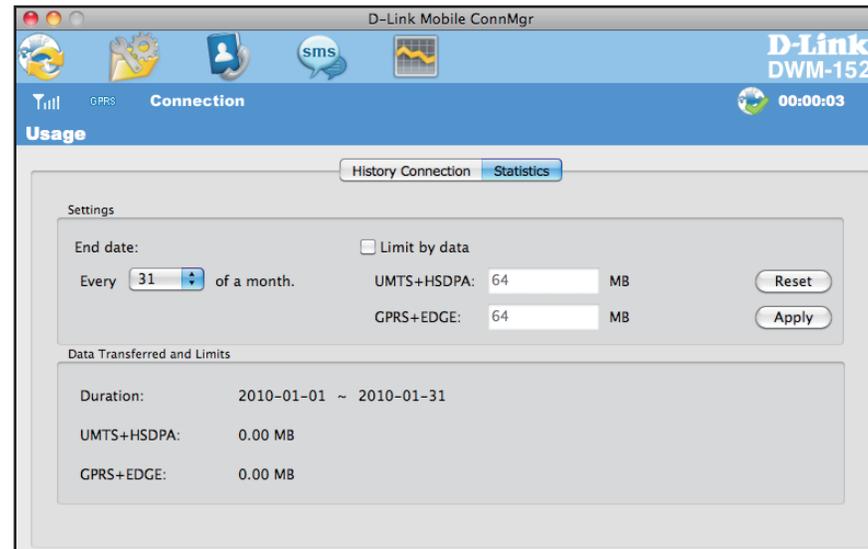
Usage

Statistics

The Statistics tab displays the following information:

Settings - You may choose to limit data collection by data or by a specified number of days in a month. Click **Reset** to restart the data collection. Click **Apply** to apply any changes to the settings.

Data Transferred and Limits: Displays the total amount of data transferred within the specified period.



Connection History

The History Connection tab displays the following information:

Profile - The name of the profile

APN - The access point name

Time Start - The time the connection was initiated

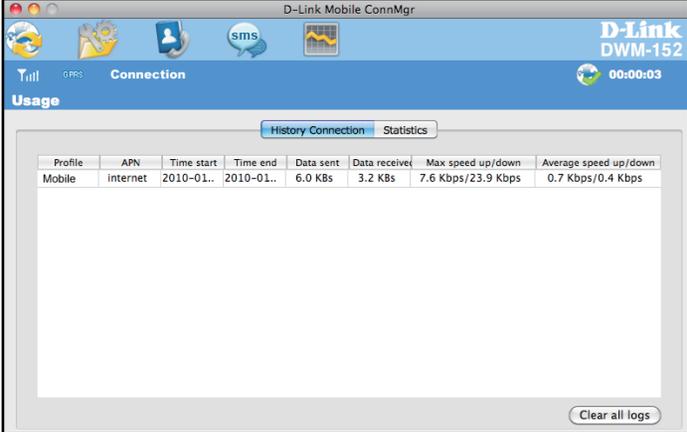
Time End - The time that the connection ended

Data Sent - The total amount of data sent

Data Received - The total amount of data received

Max Speed Up/Down - The highest recorded upload/download speed for the session

Average Speed Up/Down - The average upload/download speed for the session



Profile	APN	Time start	Time end	Data sent	Data received	Max speed up/down	Average speed up/down
Mobile	internet	2010-01..	2010-01..	6.0 Kbs	3.2 Kbs	7.6 Kbps/23.9 Kbps	0.7 Kbps/0.4 Kbps

To clear the Connection History:

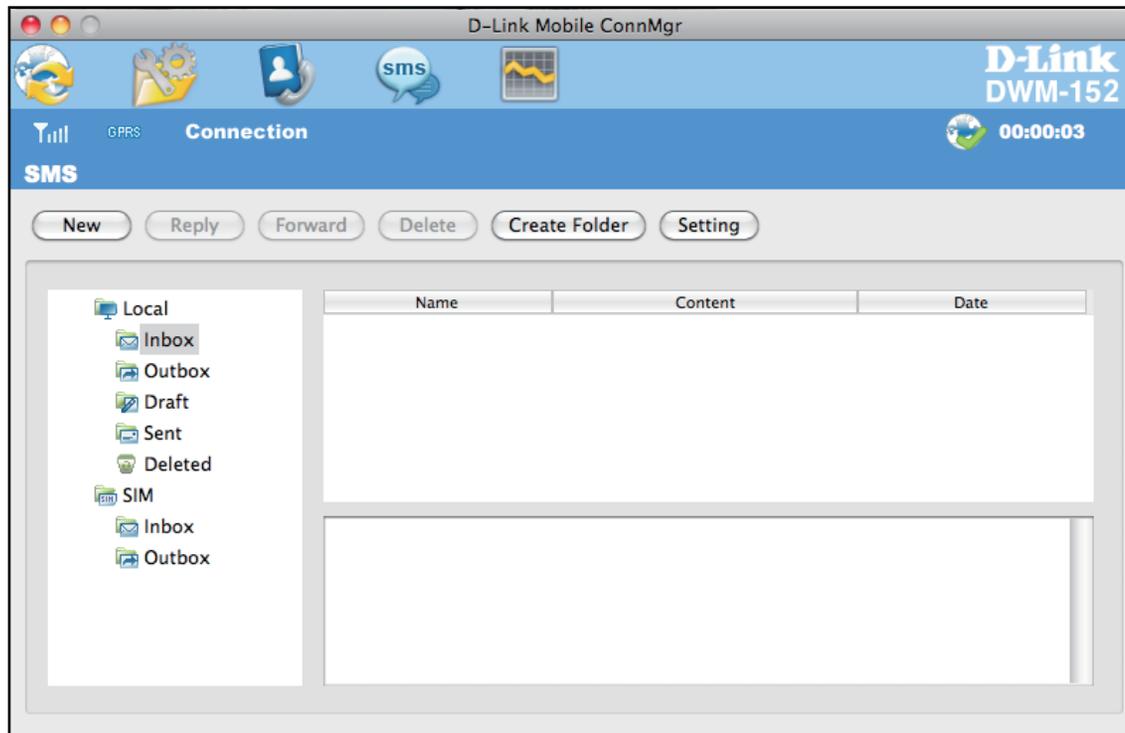
1. Click **Clear All Logs** to clear the logs.
2. Click **Yes** to confirm.

Text Messaging (SMS)

The DWM-152 can be used to perform the text messaging functions that can be done on a mobile phone such as sending, receiving, replying, forwarding and deleting.

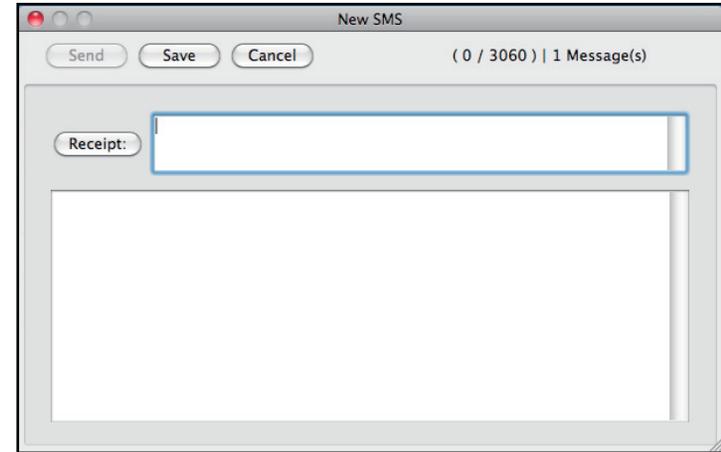


SMS



New/Reply/Forward Text Message

1. Click the **SMS** button.
2. Click **New**, **Reply**, or **Forward**.
3. Enter the recipient's phone number or click **Contacts** to see the contacts stored to the SIM card. In the contacts window, click the box next to the recipients name and click **Save** to return to the New SMS window.
4. Enter a message to send.
5. Click **Send** to send the message.



Deleting a Message

1. Click the **SMS** button.
2. Select the messages you want to delete.
3. Click **Delete** to delete the selected messages.
4. Click **Yes** to confirm.

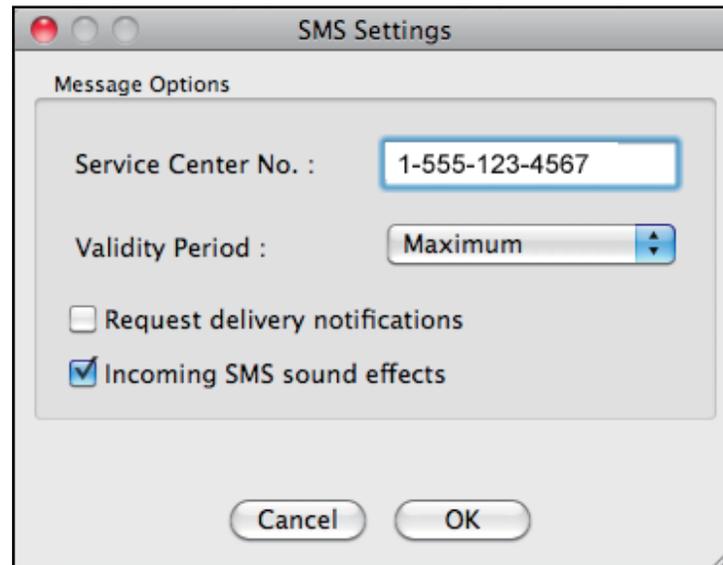
Saving a Sender to Contacts

1. Click the **SMS** button.
2. Select a message.
3. Shift click on the selected message and click **Save as Contact**.
4. In the **Add Contact** window enter the contact name.
5. Click **OK** to save the contact.
6. Once the contact has been saved, a confirmation window will be displayed. Click **OK** to close it.

SMS Settings

This menu allows you to change the service center number, its validity period, and whether to store outgoing messages within the DWM-152 Mobile Connection Manager.

1. Click **SMS > Settings**.
2. If needed, enter the new Service Center number.
Choose a Validity Period from the drop-down list.
3. Check the box to request delivery notifications or play sound effects if desired.
4. Click **OK** to save the details.



Contact Management

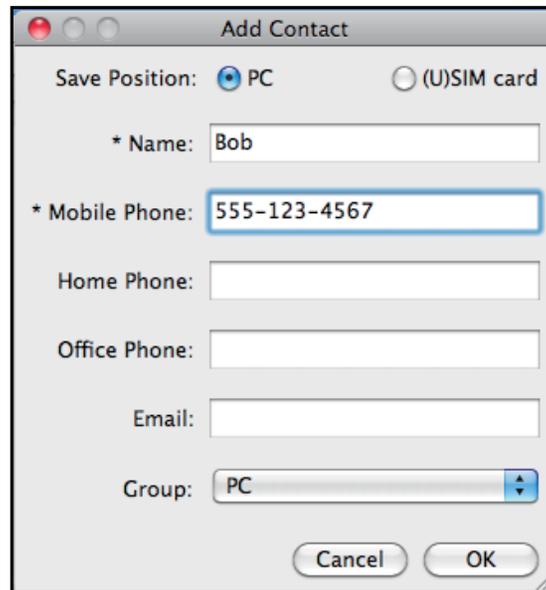
The DWM-152 contacts manager displays all the contacts on the SIM Card. Contacts can be added, edited, deleted and imported.



Contacts

Adding Contacts

1. Click the **Contacts** button.
2. Click the **Add** button.
3. In the Add Contact window, enter the contact name and telephone number.
4. Click **OK** to add the contact.

A screenshot of a 'Add Contact' dialog box. The window title is 'Add Contact'. It contains several fields: 'Save Position:' with radio buttons for 'PC' (selected) and '(U)SIM card'; '* Name:' with a text box containing 'Bob'; '* Mobile Phone:' with a text box containing '555-123-4567'; 'Home Phone:' with an empty text box; 'Office Phone:' with an empty text box; 'Email:' with an empty text box; and 'Group:' with a dropdown menu showing 'PC'. At the bottom are 'Cancel' and 'OK' buttons.

Editing Contacts

1. Click the **Contacts** button.
2. Select the contact to edit.
3. Click the **Edit** button.
4. Modify the contacts details.
5. Click **OK** to save the changes.

Deleting Contacts

1. Click the **Contacts** button.
2. Select the contact to delete.
3. Click the **Delete** button.
4. Click **Yes** to confirm the deletion.

SIM Management

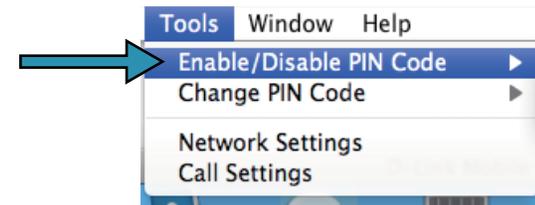
SIM Management includes functions such as enabling/disabling a PIN, changing the PIN1/PIN2 codes, adjusting the phone number, viewing contacts usage, and viewing SMS usage.

Enabling or Disabling a PIN Code

Enable PIN Code

To prevent unauthorized use of the SIM card a PIN code can be enabled.

1. Select **Tools > Enable/Disable PIN code > Enabled**.
2. Enter the correct PIN code to enable.
3. Click **OK** to enable PIN code protection.

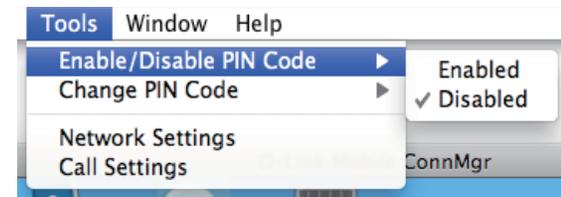


If a PIN number has been enabled, you will always be asked to enter it before accessing the D-Link Mobile Connection Manager software.

Disable

If a PIN code is no longer required, you may disable it via the following steps.

1. Click **Tools > Enable/Disable PIN code > Disabled**.
2. Enter the correct PIN code.
3. Click **OK** to disable the PIN.



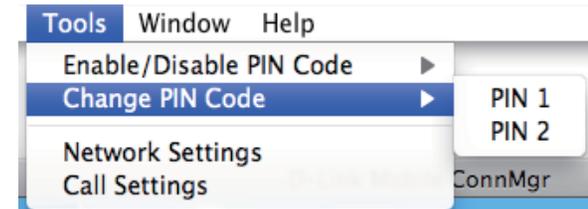
Note: The PIN is provided by your network service provider.

Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Changing a PIN Code

SIM cards often contain two PIN codes that can be changed.

1. Click **Tools > Change PIN Code > PIN1** or **PIN2**.
2. Enter the details in the following fields: Current PIN Code, Enter New PIN Code and Confirm New PIN Code.
3. Click **OK** to change.
4. Once complete, a confirmation window will be displayed. Click **OK** to close the window.



Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Note: The PIN codes cannot be changed while the DWM-152 is connected to a mobile network.

Unlocking a PIN Code

If the PIN code has been entered incorrectly three times and the SIM card has been locked, follow the steps below to unlock it:

1. If a PIN is blocked, the unblock window will be displayed.
2. Enter the PUK code. Enter the new PIN Code, and confirm the new code.
3. Click **OK** to confirm the new PIN code.

Note: The PUK number is provided by your mobile service provider.

Profile Settings

The Profile Settings page allows you to manually change your Band and Network setting in case your DWM-152 can not automatically connect to your network provider.

Band Settings

The DWM-152 supports two band selection options:

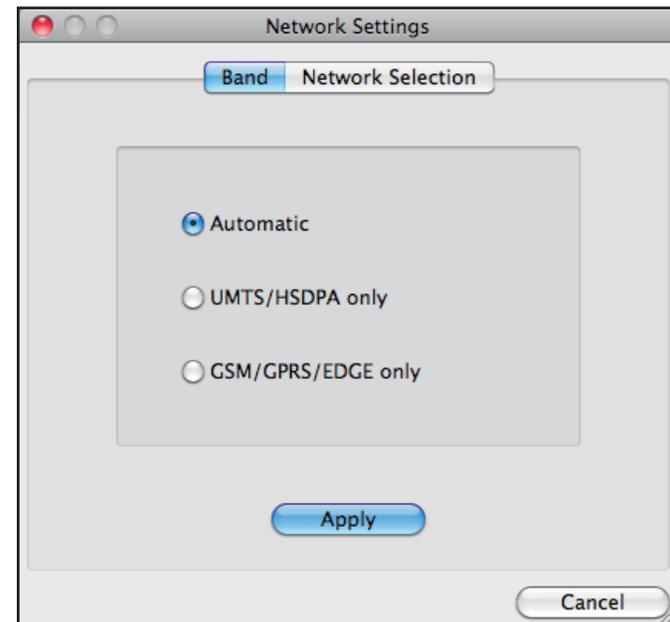
Automatic - The DWM-152 automatically selects the band based on the networks available in current area and those supported by the DWM-152.

UMTS/HSDPA Only - Restricts the DWM-152 to using 3G service on UMTS/HSDPA bands.

GSM/GPRS/EDGE Only - Restricts the DWM-152 to using 2G service on GSM/GPRS/EDGE bands.

To adjust the band settings follow the instructions below:

1. Click the **Profile** button.
2. Select **Band** tab.
3. Select Automatic, UMTS/HSDPA only, or GSM/GPRS/EDGE only.
4. Click **Apply** and **OK**.



Network Selection

The current location of the DWM-152 may be covered by more than one network. The DWM-152 supports two network selection options:

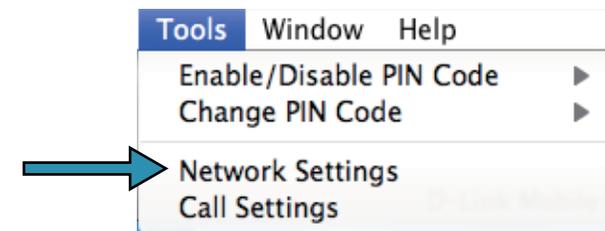
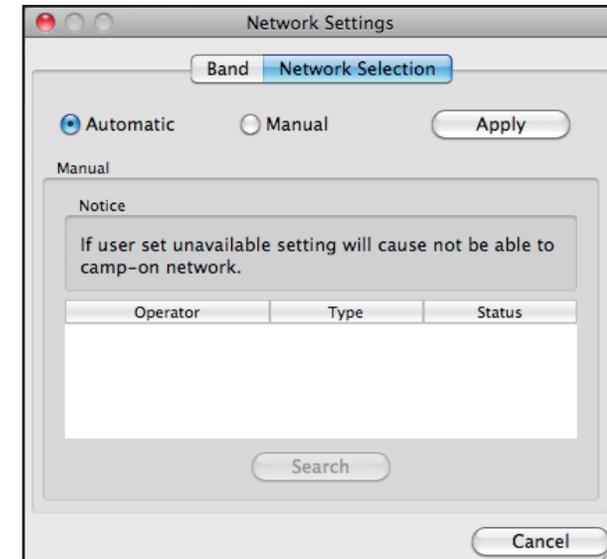
Automatic - By default the DWM-152 will automatically select the network based on the user account and network availability.

Manual - You may choose from the list of operators.

To manually set the network, follow the steps below:

1. Click on the **Tools** menu.
2. Click on **Network Settings**.
3. Select **Manual**.
4. Click **Search** to see all available networks.
5. Select a network operator and click **Apply**.
6. Click **OK** to finish.

Note: When the band is set to **UMTS/HSDPA Only**, manual selection will only list 3G networks.



Troubleshooting

1. Why am I unable to connect to a mobile service network?

The DWM-152 requires a SIM card registered with a compatible service network. For information about the services that your SIM card provides access to, please contact your mobile service provider. The adapter will not connect to a service network unless all relevant settings have been specified correctly. Please make sure that all connection profile settings are accurate.

2. Why is the software asking for a PIN number?

For security, some SIM cards have a PIN number enabled. If the SIM was used in a previous device, the PIN will be the same as it was before. If you did not set a PIN, please contact your mobile service provider.

3. Why are the connection speed and data transfer rates slow?

Please check the network signal strength. A low signal will result in poor performance.

4. Why am I unable to receive SMS messages?

This may happen with the SIM card memory is full. You may need to delete some messages to free up space.

5. Why is only part of the name saved when adding a new contact?

The SIM card can hold a maximum of 12 letters/characters for a contact name.

Glossary

2G - Second-generation mobile networking technology. Represents a switchover from analog to digital; most 2G networks use GSM.

3G - Third-generation mobile networking technology that enables simultaneous transfer of voice and non-voice data; most 3G networks use WCDMA.

3.5G - A more recent standard of mobile networking technology; generally uses HSDPA.

3.75G - A more recent standard of mobile networking technology; generally uses HSUPA.

APN (Access Point Name/Network) - Provides GPRS routing information. Consists of: Network ID: Identifies the external service requested by a GPRS user. Mobile network operator ID: Specifies routing information.

ARFCN (Absolute Radio Frequency Channel Number) - The specific ID numbers for all radio channels used in cellular mobile communications.

Bps (bits per second) - How data flow is measured.

DNS (Domain Name System) - Helps route network traffic by making the addressing process more user-friendly.

DHCP (Dynamic Host Configuration Protocol) - How devices obtain IP addresses from a server.

DUN (Dial-Up Network) - Windows component that enables online access via a modem.

EDGE (Enhanced Data GSM Environment/Enhanced Data for Global Evolution) - Advanced GPRS that delivers multimedia and other data needing greater bandwidth at up to 237 kbps.

GPRS (General Packet Radio Service) - Delivers data in packets at up to 86 kbps.

GSM (Global System for Mobile Communications) - The most popular cellular network, mostly operates in 850-900 or 1800-1900 MHz; the primary 2G system.

IMEI (International Mobile Equipment Identity) - A number unique to each GSM/UMTS device that can be used block network access by a stolen mobile device.

IP (Internet Protocol) - Routes packets over a network.

HSDPA (High Speed Downlink Packet Access) - Advanced WCDMA that delivers bandwidth intensive data at up to 7.2Mbps; typically associated with 3.5G.

HSUPA (High Speed Uplink Packet Access) - Advanced WCDMA that delivers bandwidth intensive data at up to 5.76Mbps; typically associated with 3.75G.

Kbps (Kilobits per second) - A data flow measure; 1024 bits/second.

LAN (Local Area Network) - A data network with limited range but good bandwidth.

Mbps (Megabits per second) - A data flow measure; 1,048,576 bits/second.

PPP (Point-to-Point Protocol) - An internet connection method.

PIN (Personal Identity Number) - A four to eight digit security code on the SIM which permits access to a user's mobile carrier network.

PUK (Personal Unblocking Key) - A code used to unlock a blocked PIN number. Usually, if the wrong PUK is entered ten times in a row, the SIM will become permanently blocked and unrecoverable, requiring a new SIM card.

Rx - Shorthand for Reception.

SIM (Subscriber Identity Module) - A small card that contains key mobile device identification, subscription and contact information.

SMS (Short Messaging Service) - Allows text messages of up to 160 characters.

Tx - Shorthand for Transmission.

WCDMA (Wideband Code Division Multiple Access) - Wideband Code Division Multiple-Access (WCDMA) is one of the main technologies in the implementation of third-generation (3G) cellular systems. This product supports WCDMA up to 384kbps.

Technical Specifications

MINIMUM SYSTEM REQUIREMENTS

- Operating System: Mac OS X 10.4 or higher
- CPU: PowerPC G3 processor or higher
- RAM: 256 MB
- Hard Disk: 64 MB
- USB Port: 2.0 interface

GSM BAND (GSM/GPRS/EDGE)

- 850 / 900 / 1800 / 1900 MHz
- Power Class 4 (900 / 1850 MHz)
- Power Class 1 (1800 / 1900 MHz)

UMTS/HSDPA BAND *

- 850 / 1900 / 2100 MHz
- Power Class 3 (+24 dBm)

DATA RATES **

- DL: 3.6 Mbps / 384 Kbps
- UL: 384 Kbps

ANTENNA

- Internal monopole antenna

INTERFACE SUPPORT

- USB 2.0

SMS

- Circuit-switched (GSM)
- Packet-switched (GPRS)

SMS MANAGER

- Create, edit, forward, and send messages
- Inbox, outbox, draft, and sent folders

PHONEBOOK

- Import, export, add, modify, and delete records

USIM SLOT

- Standard 6-Pin SIM card interface

PLUG AND PLAY

- Automatic software/driver installation

CONNECTION STATUS

- Network name, signal strength, send/receive rate

LED INDICATOR

- Five-color LED provides status information

MicroSD CARD READER

- Supports standard MicroSD Cards up to 8GB

CERTIFICATION

- CE
- NCC
- FCC

DIMENSIONS (L x W x H)

- 89.4 x 26.68 x 12 mm

OPERATING TEMPERATURE

- -10° to 55°C (14° to 131°F)

* Supported frequency band is dependant upon regional hardware version.

** Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.