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Feel free to contact Socket Mobile at:

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39700 Eureka Drive
Newark, CA 94560-4808
USA

http://www.socketmobile.com/contact

Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the SoMo 650 that are not described in this manual. Please refrain from disassembling the SoMo 650. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at: http://www.socketmobile.com.
IMPORTANT SAFETY INSTRUCTIONS

Please read and follow these safety instructions before using your device for the first time, and save them for future reference.

• Keep away from extremely hot, cold or humid conditions.
• Avoid using in dusty environments.
• Do not allow the device to get wet.
• Avoid strong force, shock or vibrations.
• Do not open your device. Any attempts to open this device will void the warranty.
• Do not place objects on top of the device.
• Avoid removing the battery without turning off the device.
• Do not charge the device in extremely hot or cold conditions.
• Please only use the supplied USB synchronization cable.
• Please do not use other chargers or adapters, as these may damage your device.
• Do not remove SD/MMC or CF cards while they are being accessed.
• Do not use this device in damp, wet or rainy conditions.
• Do not insert metal objects into the sync/charging port of the SoMo.
• Keep the SoMo and its accessories away from children.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPYRIGHT NOTICE</td>
<td>2</td>
</tr>
<tr>
<td>IMPORTANT SAFETY INSTRUCTIONS</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>INTRODUCTION</td>
</tr>
<tr>
<td></td>
<td>PACKAGE CONTENTS</td>
</tr>
<tr>
<td></td>
<td>PRODUCT REGISTRATION</td>
</tr>
<tr>
<td></td>
<td>SocketCare™ Extended Warranty</td>
</tr>
<tr>
<td></td>
<td>Socket Third-party Accessories Recommendation (STAR)</td>
</tr>
<tr>
<td></td>
<td>Synchronization Software</td>
</tr>
<tr>
<td></td>
<td>HARDWARE FEATURES</td>
</tr>
<tr>
<td>2</td>
<td>GETTING STARTED</td>
</tr>
<tr>
<td></td>
<td>Step 1: Install the Battery</td>
</tr>
<tr>
<td></td>
<td>Step 2: Charge the Battery</td>
</tr>
<tr>
<td></td>
<td>Step 3: Set up your SoMo 650</td>
</tr>
<tr>
<td></td>
<td>Step 4: Install Synchronization Software on Host PC</td>
</tr>
<tr>
<td></td>
<td>Step 5: Connect the SoMo to Host PC</td>
</tr>
<tr>
<td></td>
<td>Step 6: Set up Your Device Partnership</td>
</tr>
<tr>
<td></td>
<td>Getting Started Wizards</td>
</tr>
<tr>
<td>3</td>
<td>USING THE SOMO 650</td>
</tr>
<tr>
<td></td>
<td>Stylus</td>
</tr>
<tr>
<td></td>
<td>Hold switch</td>
</tr>
<tr>
<td></td>
<td>Start Menu</td>
</tr>
<tr>
<td></td>
<td>Online help</td>
</tr>
<tr>
<td></td>
<td>Wireless Radio Manager</td>
</tr>
<tr>
<td></td>
<td>SoMo 650 Power Plus Battery Friendly® Utility</td>
</tr>
<tr>
<td></td>
<td>Backlight and Power Settings</td>
</tr>
<tr>
<td></td>
<td>CPU Performance Utility</td>
</tr>
<tr>
<td></td>
<td>Voice Recorder</td>
</tr>
<tr>
<td></td>
<td>Adding a USB Keyboard/Mouse</td>
</tr>
<tr>
<td>4</td>
<td>WI-FI COMPANION</td>
</tr>
<tr>
<td></td>
<td>Turning on the Wi-Fi Radio</td>
</tr>
<tr>
<td></td>
<td>Main Screen of Wi-Fi Companion</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi Status Icon</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi Finder</td>
</tr>
<tr>
<td></td>
<td>Finding and Connecting to a WLAN</td>
</tr>
<tr>
<td>5</td>
<td>SOCKETSCAN 10 FOR CHS SERIES 7 BARCODE SCANNERS</td>
</tr>
<tr>
<td></td>
<td>Step 1: Charge the CHS</td>
</tr>
<tr>
<td></td>
<td>Step 2: Install SocketScan 10</td>
</tr>
<tr>
<td></td>
<td>Step 3: Pair the CHS with the SoMo</td>
</tr>
<tr>
<td></td>
<td>Step 4: Start Application</td>
</tr>
<tr>
<td></td>
<td>Step 5: Scan Barcodes</td>
</tr>
<tr>
<td>6</td>
<td>SOCKETSCAN FOR PLUG-IN SCANNERS AND READERS</td>
</tr>
<tr>
<td></td>
<td>Step 1: Assign a Trigger Button</td>
</tr>
<tr>
<td></td>
<td>Step 2: Start SocketScan</td>
</tr>
<tr>
<td></td>
<td>Step 3: Insert the Card</td>
</tr>
<tr>
<td></td>
<td>Step 4: Start Application</td>
</tr>
<tr>
<td></td>
<td>Step 5: Scan or Read Data</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>SOMO 650 BACK PACK SOFTWARE</td>
<td>54</td>
</tr>
<tr>
<td>1: Configure a Modem Connection</td>
<td>55</td>
</tr>
<tr>
<td>2: Prepare the Hardware</td>
<td>56</td>
</tr>
<tr>
<td>3: Connect to Network</td>
<td>56</td>
</tr>
<tr>
<td>APPENDICES</td>
<td></td>
</tr>
<tr>
<td>A Specifications</td>
<td>57</td>
</tr>
<tr>
<td>B Care and Maintenance</td>
<td>59</td>
</tr>
<tr>
<td>C Resetting the SOMO 650</td>
<td>60</td>
</tr>
<tr>
<td>D Upgrading the ROM Image</td>
<td>66</td>
</tr>
<tr>
<td>E Troubleshooting</td>
<td>69</td>
</tr>
<tr>
<td>F Technical Support</td>
<td>70</td>
</tr>
<tr>
<td>Limited Warranty</td>
<td>71</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>72</td>
</tr>
<tr>
<td>Regulatory Compliance</td>
<td>73</td>
</tr>
</tbody>
</table>
Thank you for purchasing the SoMo 650 handheld computer. The SoMo 650 is a durable, Windows Mobile powered device that can help your business increase the productivity of mobile workers, improve the visibility of data in the field, and automate manual processes.

There are multiple configurations to suit different types of applications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
<th>Target Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoMo 650-E</td>
<td>Standard</td>
<td>Various</td>
</tr>
<tr>
<td>SoMo 650Rx-E</td>
<td>Antimicrobial with Extended Battery</td>
<td>Healthcare</td>
</tr>
<tr>
<td>SoMo 650DX-E</td>
<td>Radio-free (No Bluetooth or Wi-Fi)</td>
<td>Government/high-security and batch applications</td>
</tr>
</tbody>
</table>

**READY TO CUSTOMIZE**

The SoMo 650 can be deployed out-of-the-box with a wide range of Socket or third-party peripherals, because it comes pre-loaded with the following software:

<table>
<thead>
<tr>
<th>Socket/Third-Party Peripheral</th>
<th>Pre-loaded Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket CHS v3 Bluetooth barcode scanners</td>
<td>SocketScan™ 10 keyboard wedge software</td>
</tr>
<tr>
<td>Socket barcode, RFID and magnetic stripe readers (plug-in cards, CRS, CHS v2)</td>
<td>SocketScan™ keyboard wedge software Connect!Agent Bluetooth software¹</td>
</tr>
<tr>
<td>Socket 56K Modem Cards</td>
<td>Modern Utilities</td>
</tr>
<tr>
<td>Socket 10/100 Ethernet Card</td>
<td>Ethernet Utilities</td>
</tr>
<tr>
<td>Socket SoMo 650 Back Pack wireless broadband ExpressCard adapter</td>
<td>Drivers, utilities</td>
</tr>
<tr>
<td>UIC UIC683 contactless/mag stripe card reader</td>
<td>SocketScan keyboard wedge software</td>
</tr>
<tr>
<td>SocketSerial Serial I/O Card, Shielded USB-to-Serial Adapter, USB Ethernet Gigabit Adapter</td>
<td>Drivers</td>
</tr>
</tbody>
</table>

Socket also offers a wide range of accessories for the SoMo 650, including screen protectors, Multi-Bay Chargers, and more. [http://www.socketmobile.com/products/](http://www.socketmobile.com/products/)

**POWER MANAGEMENT SOFTWARE**

The SoMo 650 features the following power management software so you can optimize battery life according to your performance needs:

<table>
<thead>
<tr>
<th>Software</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket Power Plus Battery Friendly® utility</td>
<td>Performance optimization, analysis and troubleshooting utility</td>
</tr>
<tr>
<td>Socket CPU Performance utility</td>
<td>Processor performance optimization utility</td>
</tr>
<tr>
<td>Socket Hold Switch utility</td>
<td>Configuration utility for hold switch</td>
</tr>
</tbody>
</table>

¹ For Windows Mobile 6 Service Pack 8 or later, Connect!Agent software is pre-loaded but not installed.
PACKAGE CONTENTS
All SoMo 650-E, SoMo650Rx-E, and SoMo 650DX-E configurations come with the following items:

- SoMo 650 handheld computer
- Lithium-ion battery
- USB sync/power cable
- AC adapter
- 2 rubber screw caps
- Quick Start Guide
- Getting Started CD with software and user documentation

Additionally, the “M” versions of the SoMo come with the following accessories:

<table>
<thead>
<tr>
<th>SoMo Version</th>
<th>Additional Accessories Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>650-M</td>
<td>• Sync/charging cradle</td>
</tr>
<tr>
<td>650Rx-M</td>
<td>• Belt carrying case</td>
</tr>
<tr>
<td>650DX-M</td>
<td>• 2.5mm to 3.5mm audio headset adapter</td>
</tr>
<tr>
<td></td>
<td>• Audio headset with microphone</td>
</tr>
</tbody>
</table>

PRODUCT REGISTRATION
Socket highly recommends that all customers register their products. Product registration is required to access technical support. Registered users also benefit from free service packs and other updates for the SoMo 650.

Register online at: [http://support.socketmobile.com/](http://support.socketmobile.com/)

Alternatively, if you have Windows Mobile 6 Service Pack 8 or later, you can use the Getting Started wizard for SoMo registration. In the Today screen, tap Getting Started.

SOCKETCARE™ EXTENDED WARRANTY
SocketCare is an enhanced service program, purchasable from an Authorized SocketCare Reseller within 30 days of your SoMo purchase. Program features include:

- Faster turnaround for product repair, replacement, and support
- Exclusive access to technical support

For a list of Authorized SocketCare Resellers, please visit: [http://www.socketmobile.com/support/socketcare](http://www.socketmobile.com/support/socketcare)

SOCKET THIRD-PARTY ACCESSORIES RECOMMENDATION (STAR)
The STAR Program assembles third-party accessories that have been tested for compatibility with Socket products. Featured products include keyboards, smart card readers, cases, and more. [http://ww1.socketmobile.com/products/star.aspx](http://ww1.socketmobile.com/products/star.aspx) The SoMo comes pre-loaded with software for STAR products from UIC and SocketSerial.

SYNCHRONIZATION SOFTWARE
Before you start using your new SoMo 650, you should have a host PC with the correct synchronization software installed.

<table>
<thead>
<tr>
<th>OS on Host PC</th>
<th>OS on SoMo</th>
<th>Synchronization Software</th>
<th>Microsoft URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP/2000</td>
<td>Windows Mobile 6</td>
<td>ActiveSync 4.5+ (included on CD)</td>
<td></td>
</tr>
</tbody>
</table>
HARDWARE FEATURES

Front

1. Wireless Status LED (Blue/Green) – indicates Bluetooth®, Wi-Fi®
2. Battery Status/Alarm LED (Red/Green)
3. 3.5" TFT LCD touch screen
4. Calendar shortcut button
5. Messaging shortcut button

6. 5-way navigation button
7. Microphone
8. Today shortcut button
9. Contacts shortcut button
10. Power button

Besides the power button, you can turn on the SoMo by pressing the Calendar, Messaging, Today or Contacts button.

Wireless Status LED

<table>
<thead>
<tr>
<th>LED Behavior</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashing blue</td>
<td>Bluetooth radio is on</td>
</tr>
<tr>
<td>Flashing green</td>
<td>Wi-Fi radio is on</td>
</tr>
<tr>
<td>Flashing blue and green</td>
<td>Bluetooth and Wi-Fi radios are on</td>
</tr>
</tbody>
</table>

Battery Status / Alarm LED

<table>
<thead>
<tr>
<th>LED Behavior</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashing red</td>
<td>Alarm or Low battery notification:</td>
</tr>
<tr>
<td></td>
<td>&lt;20% charge remaining for 1200 mAh battery</td>
</tr>
<tr>
<td></td>
<td>&lt;15% charge remaining for 2600 mAh battery</td>
</tr>
<tr>
<td>OFF</td>
<td>Running on battery power</td>
</tr>
<tr>
<td>Solid red light when connected to charger</td>
<td>Charging</td>
</tr>
<tr>
<td>Solid green light when connected to charger</td>
<td>Fully charged</td>
</tr>
</tbody>
</table>
1. Battery cover
2. Battery cover release
3. Speaker

**Left**

1. Hands-free (headset/microphone) connector (lift rubber cover to access)
2. Left programmable application button (launches Voice Notes voice recording utility by default)
3. Hold switch (disables screen and all buttons). There is a Hold Switch Utility to configure the hold switch, see Chapter 2.
4. DC-in connector (lift rubber cover to access)

**Right**

Right programmable application button (launches radio manager by default)
Top (with card slot cover open)

1. Stylus holder and stylus
2. SD (Secure Digital)/SDIO/MMC (MultiMedia Card) slot (lift rubber cover to access)
3. CF (CompactFlash) slot (lift rubber cover to access)

Bottom

1. USB synchronization/host cable connector
2. Soft reset button

<table>
<thead>
<tr>
<th>SoMo Behavior Under Low Battery Conditions</th>
<th>Remaining Charge for 1200 mAh Battery</th>
<th>Remaining Charge for 2600 mAh Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Battery Alert in title bar of Today screen and flashing red LED</td>
<td>20%</td>
<td>15%</td>
</tr>
<tr>
<td>Critical Battery Alert in title bar of Today screen and flashing red LED</td>
<td>10%</td>
<td>5%</td>
</tr>
<tr>
<td>SoMo will shut down to preserve data until the battery charged. The SoMo should be able to maintain a standby state for 160 hours.</td>
<td>5%</td>
<td>3%</td>
</tr>
</tbody>
</table>

To determine the battery life of the SoMo with your application, please visit:  

To learn about SoMo battery best practices, please visit:  
http://ww1.socketmobile.com/Libraries/Documents/Battery_Best_Practices.sflb.ashx  
http://support.socketmobile.com/FrontLinesGlobalSupport_Socket_Ext/SocketMobile/Attach/Answer3-0-34_CSN-1006-%20%20Socket%20Customer%20Notice%20-%20Batteries%20discharging%20quickly%20200100524.pdf
**CHARGING/SYNC CRADLE**

With two USB ports, the cradle can act as a hub to connect a keyboard, mouse or other device. There is a compartment for charging a spare battery, which can be charged at the same as a SoMo.

*Front*

![Front view of the cradle with labels for 26-pin docking connector, Charging status LED, and USB port status LEDs.]

*Back*

![Back view of the cradle with labels for Spare battery charger, USB ports 1 and 2, 26-pin connector, and Power jack.]


Socket offers a broad range of charging accessories for the SoMo, including durable charging cradles, multi-bay chargers, car chargers, and more.

*Certain USB devices may require additional software or drivers.*
CAUTION: TO ENSURE PROPER OPERATION OF YOUR SOMO 650, FOLLOW THE BELOW INSTRUCTIONS PRIOR TO USE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN YOUR SOMO TEMPORARILY NOT TURNING ON.

STEP 1: INSTALL THE BATTERY
1. Remove the battery cover of the SoMo 650. Press the release button on the bottom of the battery cover with your thumb and slide the battery cover off with your other hand.

2. Place the included battery into the battery compartment, so that the battery’s barcode label is face up, near the bottom of the device.

3. Slide the battery cover back into place.

CAUTION: DO NOT PRESS THE BATTERY COVER DIRECTLY DOWN, OR THE BATTERY DOOR SENSING SWITCH COULD BE DAMAGED.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF BATTERIES ACCORDING TO YOUR LOCAL REGULATIONS FOR BATTERY DISPOSAL.
**STEP 2: CHARGE THE BATTERY**

1. Lift the rubber flap that covers the DC-in connector on the left side of the SoMo.

2. Connect the AC adapter to the DC-in connector.

   ![Image of AC adapter connected to SoMo]

   Alternatively, you can use the cradle, if included with your version of the SoMo 650.

   ![Image of AC adapter connected to SoMo cradle]

3. Plug the AC adapter into a suitable wall socket.

   ✓ The SoMo 650 should be charged for 4 hours before first use. Afterwards, charge the device as needed according to its battery level.

   ✓ While charging, the power LED of the SoMo will be red. After charging is complete, it will change to green.

   ➾ CAUTION: WHEN CHANGING BATTERIES, DO NOT REMOVE THE MAIN BATTERY FOR MORE THAN 5 MINUTES UNLESS AC POWER IS APPLIED TO THE UNIT. REMOVING EITHER AC POWER OR THE MAIN BATTERY FOR MORE THAN 5 MINUTES COULD RESULT IN THE SOMO FAILING TO POWER ON AFTER CHANGING THE BATTERY.
**STEP 3: SET UP YOUR SoMo 650**

*NOTE: Make sure the SoMo 650 is fully charged before proceeding.*

1. Slide the hold switch on the left side of your SoMo 650 up to the unlocked position.

   ![Hold switch](image)

   *IMPORTANT! SLIDE THE SWITCH UP, OR THE DEVICE WILL NOT WORK!*

2. Turn on your SoMo 650 by pressing the small power button on the front (top right-hand corner).

   ![Power button](image)

3. Follow the onscreen instructions to set up your SoMo 650.
STEP 4: INSTALL SYNCHRONIZATION SOFTWARE ON HOST PC

Do not connect your SoMo 650 to your host PC until the synchronization software has been installed on the PC.

Windows 7/Vista


2. Follow the instructions on the webpage to install the software.

Refer to the Microsoft website for information on how to use the software.

Windows XP/2000

ActiveSync version 4.2 or greater is required to connect to Windows Mobile 5.0, and version 4.5 or greater is required to connect to Windows Mobile 6.

1. Close any programs running on your host PC.

2. Insert the SoMo 650 Companion CD into the computer’s CD-ROM drive.

3. The CD’s welcome page will appear. Click Next.

The welcome page may be different for different SoMo versions.

4. Follow the instructions to install Microsoft ActiveSync.

5. After installation, the ActiveSync icon will appear on your system tray (usually the lower right corner of the screen).

Refer to the ActiveSync online Help for information on how to use the software. To restart this setup program, re-insert the CD into the CD drive.
STEP 5: CONNECT THE SoMo TO HOST PC

Connect with the Sync Cable
1. Plug the USB sync cable into the connector on the bottom of your SoMo 650.

2. Plug the other end of the cable into a USB port of your PC.

It is recommended that you also connect the AC adapter.
Connect with the Cradle

1. Insert the SoMo 650 into the cradle.

2. Use the USB sync cable to connect the cradle to a host computer.

3. Plug the other end of the cable into a USB port of your PC.

- It is recommended that you also connect the AC adapter.

- If you want to charge the SoMo via USB and have Windows Mobile 6 Service Pack 7 or later, make sure USB charging is enabled. Tap Start | Settings | System | Power Plus | Advanced. Select the option Enable USB charging and tap ok.
STEP 6: SET UP YOUR DEVICE PARTNERSHIP

Windows 7/Vista

1. When you connect your SoMo 650 to your computer for the first time, the Windows Mobile Device Center should automatically start.

2. Click Set up your device.
3. Select the information you want to synchronize and click Next.
4. Follow the instructions in the remaining screens to complete the setup.

Windows XP/2000

1. When you connect your SoMo 650 to your computer for the first time, the New Partnership wizard should automatically launch.

- NOTE: If the wizard does not automatically appear, click Start | All Programs | Microsoft ActiveSync.

2. Follow the setup wizard to set up the partnership. Once completed, the first synchronization will start automatically.
3. After the synchronization is complete, you will see that the Calendar, Contacts and Tasks on your SoMo 650 have been updated.

   The next time you wish to use the synchronization software, just plug your SoMo 650 into your computer. The software will open automatically and update your device.
GETTING STARTED WIZARDS
Windows Mobile 6.1 only

1. In the Today screen, tap Getting Started.

2. A list of wizards will appear. Some are generic for Windows Mobile 6.1, but some are specifically for the SoMo 650:

The following list shows some of the latest wizards included with Windows Mobile 6 Service Pack 8.

- Register SoMo 650
- Install Microsoft Windows Mobile Updates
- Set up e-WFC
- Set up SocketScan 10
- Configure hold switch
- Set up Connect!Agent
- Sprite Backup Trial
- MobiScan Rapid Configuration Tool
- Set up Data Capture Triggers
- Set up WAN connections
- Configure CF/SD slots
- Additional wizards generic to Windows Mobile 6.1 devices

Tap on a title to launch the wizard.
**Register SoMo 650**
Socket highly recommends that all customers register their SoMo devices. Registered users benefit from update notifications and expedited service and support.

1. In the list of Getting Started wizards, tap **Register SoMo 650**.

2. In the next screen, tap on the link.

3. The registration wizard will begin. **Make sure the SoMo has Internet access and follow the wizard to register your SoMo.**
**Install Microsoft Windows Mobile Updates**
In most cases, you will **not** need to use this utility.

1. In the list of Getting Started wizards, tap **Install Microsoft Windows Mobile Updates**.

2. Tap on the links for the updates you wish to install.
   - Microsoft Update (KB980993) – For improving security of Internet Explorer Mobile 6 to prevent remote code execution
   - Microsoft Certificates Update (KB2524375) – For preventing spoofing
Set up Enhanced Wi-Fi Companion (e-WFC)
By default, the SoMo has Wi-Fi Companion (WFC) installed. For SoMo devices running Windows Mobile 6 Service Pack 4 or later, Enhanced Wi-Fi Companion (e-WFC) is also pre-loaded but must be manually installed.

Enhanced Wi-Fi Companion offers many benefits, including advanced authentication (including PEAP-GTC, EAP-TTLS, LEAP, EAP-FAST); WMM including transmit power control and CCKM; Cisco CCX 4.0 certification; and a Socket profile editor with advanced functionality.

1. In the list of Getting Started wizards, tap **Set up e-WFC**.

2. To install the application, tap on the first link.

3. The device will begin to install the software. When prompted, choose where you will like the software installed. Tap **Install**.

   ![Install](image)

   *If you install the software in SoMo File Store, it will remain installed after a hard reset, but not after a ROM flash.*

4. After installation, you will be prompted to restart the SoMo. Tap Ok.
Set up SocketScan 10
SocketScan 10 software is for Socket CHS Series 7 v3 barcode scanners.

1. In the list of Getting Started wizards, tap Set up SocketScan 10.

2. To install the application, tap on the link.

3. Follow the remaining screens to install the software.
Configure hold switch
The Hold Switch Utility lets you change the default behavior of the hold switch.

- ROM v1.1 and later includes the utility. For previous ROMs, download the utility from: http://www.socketmobile.com/support/downloads/handheld-computer/somo-650/

- When the hold switch is activated, any connections or programs running on the SoMo will remain active. By default the screen will turn off.

- By default, the SoMo automatically suspends according to settings saved in the Power applet. To access the applet, tap Start | Settings | System tab | Power.

1. In the list of Getting Started wizards, tap Configure hold switch.

   ![Configure hold switch wizard](image1)

2. Tap on the link in the wizard to access the Hold Switch Utility.

   ![Configure hold switch utility](image2)

Alternatively, tap Start | Settings | System tab | Hold Switch.
3. Use the utility to configure your settings.

- **Leave screen enabled**: Select to keep the screen on when the hold switch is activated. A dialog will confirm the hold switch is activated. Tapping **ok** or deactivating the hold switch will close the dialog.

  - When the SoMo is reset, this option is automatically re-enabled.

- **Disable backlight**: Select to keep the screen on but disable the backlight, recommended for conserving battery life.

- **Disable auto-suspend**: Select to keep the SoMo alive when the hold switch is activated, regardless of settings chosen in the Power applet.

  - Use this option with caution to avoid accidental battery depletion.

- **Launch program when switch is activated/deactivated**: Use the menu to select a program for the SoMo to automatically launch when the hold switch is activated (in the down position) or deactivated (in the up position).

4. After entering your settings, tap **ok**.
**Set up Connect!Agent**
Connect!Agent software is compatible with the Socket CHS Series 7 v1 or v2 and the Socket CRS Series 9.

1. In the list of Getting Started wizards, scroll down and tap **Set up Connect!Agent**.

2. Tap on the link. Follow the on-screen instructions to install the software.

![Set up Connect!Agent](image)

**Sprite Backup Trial**
SoMo devices running Windows Mobile 6 Service Pack 5 or later include a free 10-day trial of Sprite Backup software.

1. In the list of Getting Started wizards, tap **Sprite Backup Trial**.

2. Tap on the first link. Follow the on-screen instructions to install the software.

![Sprite Backup Trial](image)

*For more information about Sprite Backup, please visit:*  
MobiScan Rapid Configuration Tool
1. In the list of Getting Started wizards, tap MobiScan Rapid Configuration Tool.

2. Tap on the link. Follow the on-screen instructions to install the software.

For more information about SOTI MobiScan, please visit:
http://soti.net/mc/help/Content/Manager/MobiScan.htm

Set up Data Capture Triggers
For instructions on how to set up data capture triggers for Socket barcode scanners or RFID readers, please refer to Chapter 6.

Set up WAN Connections
For instructions on how to set up WAN Connections with the SoMo 650 Back Pack wireless broadband ExpressCard adapter (sold separately), please refer to Chapter 7.
**Configure CF/SD slots**

In most cases, you will not need to use this utility. If you insert a memory card into the SoMo and cannot access data from the card after the device suspends/resumes, you can use the utility to leave the card slot enabled even when the device has suspended.

1. In the list of Getting Started wizards, tap **Configure CF/SD slots**.
2. Check the appropriate box to enable a card slot after the SoMo suspends/resumes. Tap **ok**.

⚠️ **CAUTION:** ONLY LEAVE A SLOT ENABLED TO INSERT A MEMORY CARD. DO NOT LEAVE A SLOT ENABLED TO INSERT A SOCKET CF/SD DEVICE OR OTHER I/O CARD.

⚠️ **CAUTION:** LEAVING A SLOT ENABLED WHEN THE SOMO IS NOT IN USE CAN DEPLETE THE BATTERY.

⚠️ **CAUTION:** IF YOU LEAVE A SLOT ENABLED, WHEN THE SOMO IS POWERED ON, DO NOT REMOVE OR INSERT A CARD UNLESS IT IS A MEMORY CARD.
3 | USING THE SoMo 650

This chapter explains how to use your SoMo 650 through its buttons, the hold switch, stylus, Start menu, online Help, and the Radio Manager.

STYLUS
You can use the stylus in three ways.

• **Tap an item**: Use to select an option, similar to left-clicking a mouse.

• **Tap and hold an item**: Reveals a submenu, if available. Similar to right-clicking a mouse.

• **Drag**: Hold the stylus against the screen and drag to highlight multiple items, or to move the position of an item. Similar to left-clicking and dragging a mouse.

A tethered stylus is also available online at:

HOLD SWITCH
The hold switch on the left side of the SoMo 650 can be used to prevent accidental input by disabling all buttons and the screen. Any applications or wireless connections running on the device will remain active.

To put your device on hold, move the switch in the down position.

The hold switch is not related to the software lock function accessible from the Today screen.

When the hold switch is activated, by default, the screen will turn black, and the screen and all buttons on the sides and front of the SoMo will be disabled, including the power button.

To enhance your user experience, Socket has a Hold Switch Utility that enables you to configure the hold switch settings. (See Chapter 2.)
START MENU
From the Start menu, you can access programs, settings and Help topics. The Start menu can be accessed by tapping.

ONLINE HELP
Your SoMo 650 contains online help files. These can be accessed in two main ways:

1. Tap > Help > Contents for a list of Help topics.

2. To access Help for any particular application, open the application and then tap > Help.

Alternatively, you can tap on the Help icon if your application has one.
WIRELESS RADIO MANAGER

Microsoft Wireless Manager

SoMo devices running Windows Mobile 6 include the Microsoft Wireless Manager by default. If you install Enhanced Wi-Fi Companion, the Socket Radio Manager will appear instead (see next page).

1. Open the Microsoft Wireless Manager. Press the button on the right side of the SoMo 650. Alternatively, tap the Wi-Fi and Bluetooth status line in the Today screen.

2. In the Wireless Manager, an “x” appears next to the Wi-Fi or Bluetooth icon when the radio is off. Tap on the button to turn on the radio.

Wi-Fi Companion software automatically launches after Wi-Fi is turned on.
Socket Radio Manager

- SoMo devices running Windows Mobile 5 include the Microsoft Wireless Manager by default. The Socket Radio Manager also appears on SoMo devices running Windows Mobile 6 with Enhanced Wi-Fi Companion installed.

1. Open the Socket Radio Manager. Press the button on the right side of the SoMo 650. Alternatively, tap the Wi-Fi and Bluetooth status line in the Today screen.

2. In the Radio Manager, a red “x” appears on the Bluetooth or Wi-Fi button when the radio is off. Tap on the button to turn on the radio.

- Wi-Fi Companion software automatically launches after Wi-Fi is turned on.

- Flight mode turns off Bluetooth and Wi-Fi. When flight mode is disabled, the previously running wireless radio(s) will turn on again.
**SoMo 650 Power Plus Battery Friendly® Utility**

This utility provides advanced power management and monitoring and is available on SoMo devices running Windows Mobile 6 Service Pack 6 or later.

- **With MCU firmware 2.7 or later, the utility provides detailed information on SoMo performance. To determine your MCU version, tap Start | Settings | System tab | System info | OS Version.**

- **To learn more about the utility, please visit:**
  http://www.socketmobile.com/support/downloads/handheld-computer/somo-650/?page=Detail

1. In the Today screen, tap on the Battery icon or Power Plug icon (these icons indicate whether the SoMo is running on battery power or connected to AC power).

   ![Battery icon](image1) ![Power Plug icon](image2)

   Alternatively, tap Start | Settings | System tab | Power Plus.

2. The Power Plus utility will appear, displaying the Battery screen.

   ![Battery charging](image3) ![Battery discharging](image4)

   **Current usage typically ranges from 150 mA to over 450 mA depending on how the SoMo is being used.**
After a suspend/resume, it can take up to 30 seconds for the applet to make a reasonable determination of time remaining.

If a battery is changed and the SoMo reset, it may take several minutes to report the battery current usage and estimated time remaining.

3. Tap on the **Advanced tab**. If desired, configure the SoMo to automatically turn off if not used for a specific amount of time.

![Advanced tab](image)

4. Tap on the **Usage tab**. Information about the battery ID, last charging session, and charge remaining is provided.

![Usage tab](image)

If desired, enable a power log:

- **Power log interval**: Select the duration of each power logging interval.
- **Reset log**: Tap to clear the power log data.
- **Export CSV file**: Tap to export the power log as a CSV file.

5. Tap **ok**.

To determine the battery life of the SoMo with your application, please visit: [http://www.socketmobile.com/products/handheld-computer/BatteryEstimator/index.html](http://www.socketmobile.com/products/handheld-computer/BatteryEstimator/index.html).
**Backlight and Power Settings**

You may want to adjust the backlight and power settings to maximize the battery life of your SoMo 650.

1. Tap > Settings > System tab > Backlight.

2. The Backlight utility will appear. Adjust the settings as desired and tap ok.

3. In the Settings screen, tap Power.

4. Tap on the Advanced tab and adjust the settings as desired. Tap ok.
**CPU PERFORMANCE UTILITY**

The CPU Performance utility allows you to choose a fixed processor speed based on your own criteria of performance versus battery life. This utility is available with SoMo devices running Windows Mobile 6 Service Pack 6 or later.

1. Tap 📱 > Settings > System tab > CPU.

2. The CPU Performance utility will appear, displaying the real-time processor speed and a graph of the current processor load percentage.

3. If desired, adjust the speed setting.

   - **Auto**: Select for the SoMo to monitor processor usage and adjust the processor speed accordingly.
   - **624 MHz**: Select for the best performance but least battery life.
   - **416 MHz**: Select for a good balance between performance and battery life.
   - **208 MHz**: Select for the best battery life but slower processor performance.

   You can also adjust how the load graph appears:
   - **Auto-scale**: Select to change the scaling shown in the load graph.

4. Tap ok.
**VOICE RECORDER**
By default, the left programmable application button is set for Notes, which includes voice recording capability. In Notes, tap on the red circle icon to begin recording sound.

![Voice Recorder Icon](image)

*Note: You can manually access Notes by tapping: ➡️ *Programs* > *Notes.*

*Note: If the toolbar does not appear, tap *Menu* | *View Recording Toolbar.*

**ADDING A USB KEYBOARD/MOUSE**
If you are using the SoMo 650-M, you can enter information by docking the SoMo in the cradle and using the cradle’s two USB ports to connect a keyboard and/or mouse.

![Docking Station](image)

Wi-Fi Companion (WFC) is a powerful and easy-to-use utility for managing Wi-Fi connections from your SoMo 650 handheld computer. Intuitive graphics display connection properties at a glance. Tap on icons to quickly perform a variety of networking tasks. For advanced users, the software also offers advanced diagnostic tools and connection statistics.

Enhanced Wi-Fi Companion Software (e-WFC) offers the following advantages over WFC:
- Advanced authentication (including PEAP-GTC, EAP-TTLS, LEAP, and EAP-FAST)
- WMM including transmit power control and CCKM
- Cisco CCX 4.0 certification
- Socket profile editor with advanced functionality

<table>
<thead>
<tr>
<th>Software</th>
<th>OS on SoMo</th>
<th>Installation status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wi-Fi Companion</td>
<td>All</td>
<td>Pre-installed on device</td>
</tr>
<tr>
<td>Enhanced Wi-Fi Companion</td>
<td>Windows Mobile 5</td>
<td>Not compatible</td>
</tr>
<tr>
<td></td>
<td>Windows Mobile 6 prior to Service Pack 4</td>
<td>Not included on device. Register SoMo at <a href="http://support.socketmobile.com/">http://support.socketmobile.com/</a> and request a free copy of the software.</td>
</tr>
<tr>
<td></td>
<td>Windows Mobile 6 Service Pack 4 or later</td>
<td>Pre-loaded on device but optional to install</td>
</tr>
</tbody>
</table>

✓ To view a chart comparing WFC and e-WFC, please download the white paper: http://www.socketmobile.com/pdf/techbrief/e-WFC_white-paper.pdf

✓ For instructions on how to install e-WFC, please refer to Chapter 2.

✓ This chapter primarily refers to standard WFC and shows WFC screens. Instructions and screens for e-WFC will be equivalent unless otherwise noted.

✓ Socket now offers two WLAN configuration options for the SoMo: Persistence Mode and Fast Roaming. To learn more, read our white paper: http://www.socketmobile.com/pdf/techbrief/somo-wifi-persistence-mode_white-paper.pdf

**ADDITIONAL DOCUMENTATION**
This chapter covers basic instructions for using Wi-Fi Companion on the SoMo 650. For detailed instructions, please refer to the User’s Guide available in the CD and online at: http://www.socketmobile.com/support/downloads/

**USEFUL LINKS**
Registered users can download software updates free after logging into: http://support.socketmobile.com
**TURNING ON THE Wi-Fi RADIO**

Wi-Fi Companion automatically launches after you turn on the Wi-Fi radio.

1. Open the Radio Manager. Press the button on the right side of the SoMo 650. Alternatively, you can tap on the Wi-Fi and Bluetooth status line in the Today screen.

2. In the radio manager, an “x” will appear on the Wi-Fi button to indicate that the Wi-Fi radio is off. Tap on the button to turn on the radio. The “x” will disappear.

---

Socket Radio Manager  
Microsoft Wireless Manager
3. The Wi-Fi status icon will appear at the top of the screen. The icon varies based on your connection status. Tap on the icon to view the main screen of Wi-Fi Companion. To view the different versions of the icon, please refer to the chart on the next page.

If you tap Enable Flight Mode (Socket Radio Manager) or All (Microsoft Wireless Manager), the Bluetooth and Wi-Fi radios will both be disabled. The manager will remember which wireless radio(s) were running, so when you later tap Disable Flight Mode or All, the same one(s) will turn on again.
MAIN SCREEN OF WI-FI COMPANION
The screen content varies depending on your connection status.

Your device properties.
- Device name
- IP address
- Packets sent and received

The icon always appears regardless of connection status. Tap to view more IP addresses or access the radio manager.

Access point/remote device properties.
- SSID (network name)
- Connection duration
- Signal quality rating and percentage
- MAC address (also known as BSSID)
- Channel number (in black circle)
Tap for Wi-Fi Finder.

Encryption status. Tap to access a certificate management utility for WPA or 802.1x if needed.

Wi-Fi status icon. Tap to access this screen from outside the utility.

Valid IP address. Tap to access email, the Internet, ping or trace route.

Data rate. Tap to view signal strength and data rate distribution.

For Enhanced Wi-Fi Companion, the screen has a green background.

WI-FI STATUS ICON
The icon appears at the top of every screen when Wi-Fi Companion is running.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📈</td>
<td>Associated or Connected. Number of bars indicates signal strength.</td>
</tr>
<tr>
<td>📜</td>
<td>Networks available.</td>
</tr>
<tr>
<td>🔍</td>
<td>Searching for networks.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Networks out of range but configured.</td>
</tr>
</tbody>
</table>
**Wi-Fi Finder**
The Wi-Fi Finder displays a list of WLAN networks found in range. To access the Wi-Fi Finder, tap on the large tower icon in the bottom right corner of the main screen of Wi-Fi Companion.

**Wi-Fi Finder Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Current connection" /></td>
<td>Current connection</td>
</tr>
<tr>
<td><img src="image" alt="Signal strength" /></td>
<td>Signal strength of strongest AP (access point)/ad hoc radio</td>
</tr>
<tr>
<td><img src="image" alt="Encryption" /></td>
<td>WEP encryption, WPA (PSK), WPA (TKIP), WPA2 or 802.1x</td>
</tr>
<tr>
<td><img src="image" alt="No encryption" /></td>
<td>No encryption</td>
</tr>
<tr>
<td><img src="image" alt="Channel number" /></td>
<td>Channel number</td>
</tr>
<tr>
<td><img src="image" alt="Profile saved" /></td>
<td>Profile saved</td>
</tr>
<tr>
<td><img src="image" alt="802.11b, 802.11g" /></td>
<td>802.11b, 802.11g</td>
</tr>
</tbody>
</table>
FINDING AND CONNECTING TO A WLAN

Ask your network administrator for the necessary security settings for your WLAN. If the WLAN uses 802.1x, WPA or WPA2, you need to install authentication certificate(s) before you can connect. Refer to the Wi-Fi Companion User’s Guide for instructions on the Socket certificate utility.

1. In the main screen of Wi-Fi Companion, tap on the tower icon, or tap Tools | Wi-Fi Finder.

2. Wi-Fi Finder will appear, listing WLANs detected in range. Tap on any WLAN in the list to view additional properties.

If desired, tap on the Type or Sort by drop-down menus to change how the list is displayed.

If your WLAN is not listed, tap Refresh at the bottom of the screen.

3. If Wi-Fi Finder cannot find your WLAN because its SSID (network name) is hidden, tap New at the bottom of the screen.

A wizard will launch to help you create a profile for your network.
Complete the wizard, entering the security settings obtained from your network administrator.
For Wi-Fi Companion, the Microsoft profile editor (Wireless Zero Config) will launch.

For Enhanced Wi-Fi Companion, a Socket profile editor will launch with dynamic configuration and advanced security options.

4. If your WLAN does not have a profile (i.e., no folder icon is shown next to it), tap and hold your stylus on the WLAN in the list. In the pop-up menu, tap Get Connected. A wizard will launch to help you create a profile for the selected SSID. Complete the wizard, entering the security settings obtained from your network administrator.

5. After a profile is saved, if the WLAN is in range, the SoMo will automatically try to connect to it.

To connect to another network in the list, tap and hold your stylus on the WLAN. In the pop-up menu, tap Connect.
SocketScan 10 software sends data from your Socket Bluetooth Cordless Hand Scanner (CHS) Series 7 v3 into any application running on the SoMo 650. This lets you use the CHS without having to program custom applications. The software comes pre-loaded on the SoMo 650 running Windows Mobile 6 Service Pack 8 or later but needs to be installed.

These instructions do not apply to version 1 or 2 of the CHS, nor to the CRS Series 9.

These instructions are for using the CHS in Bluetooth SPP mode. For Bluetooth HID instructions, please refer to your CHS manual.

ADDITIONAL DOCUMENTATION
This chapter covers basic instructions for using SocketScan 10 on the SoMo 650 with a CHS v3. For detailed instructions, please refer to the appropriate User’s Guide for your type of CHS:

- 1D versions (7C, 7E, 7M, 7P, 7NRx):

- 2D versions (7X, 7XRx, 7Xi, 7XiRx):

USEFUL LINKS
Registered users can download free software updates by logging into:
[http://support.socketmobile.com](http://support.socketmobile.com)
**SocketScan 10 Icons**
The icon indicates whether SocketScan 10 is connected to your CHS and ready to read data. The icon appears at the bottom of the Today screen.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>CHS not connected.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>CHS connected and ready to scan barcodes</td>
</tr>
</tbody>
</table>

**Step 1: Charge the CHS**
Refer to your CHS manual for hardware preparation instructions. You may also want to attach the tether.

If you have a 1D version of the CHS (7C, 7E, 7M, 7NRx or 7P) there are some extra steps you need to perform:

Change the CHS to SPP mode. Power on the CHS. Print out this page and scan the barcode below. Do not scan this barcode on your computer screen.

![Barcode](image)

Use the Bluetooth software to start a device search and pair with the CHS.
- Press the right side application button, which by default launches the wireless manager.
- If Bluetooth is not enabled, tap on the Bluetooth button.
- Tap Options | Bluetooth Settings
- At the bottom of the screen, tap Add.
- In the list of found devices, select the CHS.
- Complete the remaining screens. If prompted for a passkey, enter 0000 (four zeroes).
- After pairing, tap on the COM Ports tab. Add an outgoing COM port for the CHS.

**Step 2: Install SocketScan 10**

1. In the Today screen, tap Getting Started.
2. In the list of Getting Started wizards, tap Set up SocketScan 10.
3. Tap the link to install the software.
**Step 3: Pair the CHS with the SoMo**

1. Tap **Start | Programs | SocketScan 10 folder | SocketScan 10**.

2. In the Today screen, tap on the SocketScan 10 icon in the task tray. In the pop-up menu, tap **SocketScan 10 Settings**.

3. Make sure an available COM port is selected. Tap **ok**.

4. In the Today screen, tap on the SocketScan 10 icon in the task tray. In the pop-up menu, tap **EZ Pair**.

5. Tap the type of CHS barcode scanner you have.

   a. If you have a **2D Scanner**, the next screen will show a barcode. Power on the CHS and scan the barcode. If prompted for a passkey, enter **0000** (four zeroes).

   b. If you have a **1D Scanner**, in the next screen select your CHS and tap **Pair**.

6. After they pair and connect, the CHS will beep once. The task tray icon will also change. 

**CHAPTER 5: SOCKETSCAN AND CONNECT!AGENT**

47
a. If you have a 1D scanner, the CHS will disconnect from the SoMo, indicated by 2 beeps. The CHS will then reconnect to the SoMo, indicated by a beep.

**STEP 4: START APPLICATION**

Start the application that you want to enter data into (e.g., Excel Mobile). From the Today screen, tap Start | Programs and select your program. Make sure a document, spreadsheet or form is open in your program. Place the cursor where you want data from the next scan to be entered.

**STEP 5: SCAN BARCODES**

1. Press the trigger button to scan a barcode. Please refer to your scanner manual for the correct technique. Make sure the scanning beam covers the entire width of the barcode. For example, you can try scanning this barcode:

   ![Barcode Example](barcode.png)

   ABCDE12345

2. When data is read, it should appear in your document.

   Depending on which scanner you have, it may also beep, or the LED may change colors to indicate a successful scan.

   By default, the cursor automatically advances to the next cell or line, ready for the next scan/read.

   ✔️ Wait for the “Good Scan” indication before you scan more data. If you try to scan too fast, the device can lock up until you stop scanning.

   ✔️ If the data does not appear how you expect it and you are using Excel Mobile, check the cell formatting.
SocketScan software sends data from your Socket barcode scanner, RFID reader or magnetic stripe reader into any application running on the SoMo 650. This lets you use Socket data collection peripherals without having to program custom applications. The software comes pre-loaded on the SoMo 650.

This chapter contains generic instructions for using SocketScan on the SoMo 650 with these products:
- SD Scan Card Series 3
- CF Mag Stripe Reader Card Series 4
- CF Scan Card Series 5
- CF RFID Reader Card Series 6

For specific instructions, please refer to the User’s Guide for your specific Socket data collection product, available in the installation CD that came with the data collection product as well as online at:
http://www.socketmobile.com/support/downloads/

SocketScan 7.5.1 and later also supports the UIC683 contactless smart card reader. Please refer to UIC documentation for instructions.
**STEP 1: ASSIGN A TRIGGER BUTTON**

*This step is NOT required for the CF Mag Stripe Reader Card.*

**Method 1:**
This method is for the SD Scan Card, CF Scan Card or CF RFID Reader Card 6E with any version of Windows Mobile.

1. Tap **Start | Settings | Buttons**.
2. From the **Button** list, tap to select a button to trigger your scanner. For best ergonomics, the left or right button is recommended. In the drop-down menu, select **SocketScan**. Tap **ok**.

![SocketScan Button Assignment](image)

*Make sure you choose SocketScan and NOT SocketScan 10.*

**Method 2:**
This method is only for Windows Mobile 6.1 or later

1. In the **Today** screen, tap **Getting Started**.

![Getting Started on Today Screen](image)
2. In the list, tap **Set up Data Capture triggers**.

3. In the next screen, tap either **LEFT** or **RIGHT** in the appropriate section to select the button you want to use to trigger your device.

4. The SoMo will automatically set up the trigger button and send a confirmation message to your inbox.

**STEP 2: START SOCKETSCAN**

1. Press the trigger button that you assigned. This is a quick way of starting SocketScan.

   Alternatively, tap **Start | Programs | SocketScan folder | SocketScan**.

2. A SocketScan icon should appear at the bottom of the Today screen indicating that no data collection device has been inserted.
**STEP 3: INSERT THE CARD**

1. Open the slot cover at the top of the SoMo 650, then insert the card into the appropriate slot. Do not insert the card backwards or force the card in too hard.

2. When SocketScan is running, an icon will appear at the bottom of the Today screen. Make sure the proper icon appears to indicate that your device is ready to collect data.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Icon]</td>
<td>No Socket data collection device detected.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Ready to scan barcodes with the Secure Digital Scan Card</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Ready to read magnetic stripe data with the CF Mag Stripe Reader Card 4E</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Ready to scan barcodes with the CF Scan Card 5E2/5P or CF RFID Reader-Scan Card 6E/6P</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Ready to scan barcodes with the CF Scan Card 5X/5XRx</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Ready to read RFID tags with the CF RFID Reader Card</td>
</tr>
</tbody>
</table>

*If you insert the card before starting SocketScan, no icon will appear.*
**STEP 4: START APPLICATION**
Start the application that you want to enter data into (e.g., Excel Mobile). From the Today screen, tap **Start | Programs** and select your program. Make sure a document, spreadsheet or form is open in your program. Place the cursor where you want data from the next scan/read to be entered.

**STEP 5: SCAN OR READ DATA**

1. **Scanning/RFID**: Press the trigger button to scan a barcode or read an RFID tag. Please refer to your scanner manual for the correct technique.

   When scanning a barcode, make sure the scanning beam covers the entire width of the barcode. For example, you can try scanning this barcode:

   ![Barcode Image]

   **Mag Stripe**: Swipe a magnetic stripe card through the slot, with the magnetic stripe facing the SoMo 650.

2. When data is read, it should appear in your document.

   Depending on which scanner/reader you have, it may also beep, or the LED may change colors to indicate a successful scan.

   ✓ **Wait for the “Good Scan” indication before you scan more data. If you try to scan too fast, the device can lock up until you stop scanning.**

   ✓ **If the data does not appear how you expect it and you are using Excel Mobile, check the cell formatting.**
The SoMo 650 Back Pack is a wireless broadband ExpressCard adapter that enables you to add a Novatel ExpressCard modem card to access data anytime anywhere.

- Back Pack software is pre-installed in SoMo devices running Windows Mobile 6 Service Pack 4 or later.

- Back Pack software is compatible with Windows Mobile 6 or later. If you have a SoMo running Windows Mobile 6 prior to Service Pack 4, you can download the software free by registering your device and submitting a request at: http://support.socketmobie.com
**STEP 1: CONFIGURE A MODEM CONNECTION**

1. In the Today screen, tap **Getting Started**.

![Getting Started](image1)

2. In the list, tap **Set up WAN Connections**.

![Set up WAN Connections](image2)

3. In the next screen, tap on your WAN modem card.

![Set up WAN connections](image3)

4. The SoMo will automatically set up a connection for your card.

CHAPTER 6: SOCKETSCAN FOR PLUG-INS 55
**STEP 2: PREPARE THE HARDWARE**
Install the SoMo 650 Back Pack and insert your Novatel WAN modem card, as shown in the *Quick Start Guide* included with the SoMo 650 Back Pack. If desired, also install the hand strap.

**STEP 3: CONNECT TO NETWORK**
Simply use your networking application. The modem will automatically try to connect when an application (e.g., Internet Explorer) searches for a network connection.
## APPENDIX A

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel PXA270@624MHz CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>SDRAM: 128MB</td>
</tr>
<tr>
<td></td>
<td>NAND Flash: 1GB or 256MB</td>
</tr>
<tr>
<td></td>
<td>SoMo File Store: 32 MB and 128 MB non-volatile memory configurations available.</td>
</tr>
<tr>
<td>Display</td>
<td>65K colors TFT LCD, 3.5&quot;</td>
</tr>
<tr>
<td></td>
<td>16 bit-per-pixel</td>
</tr>
<tr>
<td></td>
<td>240 (w) x 320 (L) resolution (QVGA size) portrait and landscape modes, default portrait mode.</td>
</tr>
<tr>
<td></td>
<td>Glass analog resistive touch panel</td>
</tr>
<tr>
<td></td>
<td>White LED backlight</td>
</tr>
<tr>
<td>Audio</td>
<td>Headset Jack: 2.5mm, 4-ring type, support for both Voice &amp; Stereo music 0.5W speaker</td>
</tr>
<tr>
<td></td>
<td>Omni-directional microphone</td>
</tr>
<tr>
<td>Connectors</td>
<td>SoMo 650:</td>
</tr>
<tr>
<td></td>
<td>DC-in (5V, 1A)</td>
</tr>
<tr>
<td></td>
<td>USB synchronization/host cable connector</td>
</tr>
<tr>
<td></td>
<td>Cradle:</td>
</tr>
<tr>
<td></td>
<td>Docking connector</td>
</tr>
<tr>
<td></td>
<td>DC-in (5V, 3A)</td>
</tr>
<tr>
<td></td>
<td>USB synchronization cable connector USB v2</td>
</tr>
<tr>
<td></td>
<td>USB connector x 2 (Type A): USB v1</td>
</tr>
<tr>
<td>Wireless Connectivity (not included with SoMo 650DX)</td>
<td>Bluetooth: v2.0 + EDR Class 2</td>
</tr>
<tr>
<td></td>
<td>IEEE® 802.11b/g WLAN with fast roaming</td>
</tr>
<tr>
<td></td>
<td>Cisco CCX 4.0 certified with Enhanced Wi-Fi</td>
</tr>
<tr>
<td></td>
<td>Companion software (for Windows Mobile 6 or later, requires separate install)</td>
</tr>
<tr>
<td>Mass Storage &amp; Expansion Slots</td>
<td>User accessible SD/SDIO/MMC expansion slot</td>
</tr>
<tr>
<td></td>
<td>CF I/O Type II expansion slot</td>
</tr>
<tr>
<td>USB</td>
<td>USB 1.1 support host/client (x2) (Cradle only)</td>
</tr>
<tr>
<td>Battery</td>
<td>Standard: 3.7V 1200 mAh, rechargeable, Lithium-ion</td>
</tr>
<tr>
<td></td>
<td>Extended: 3.7V 2600 mAh rechargeable, Lithium-ion (extended battery available separately or with SoMo 650EB or SoMo 650Rx)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>With standard battery:</td>
</tr>
<tr>
<td></td>
<td>5.00 x 2.94 x 0.81 inches (127 x 74.60 x 20.6 mm)</td>
</tr>
<tr>
<td></td>
<td>Weight: 6.25 oz (177 g) (including stylus)</td>
</tr>
<tr>
<td></td>
<td>With extended battery:</td>
</tr>
<tr>
<td></td>
<td>5.00 x 2.94 x 0.98 inches (127 x 74.60 x 25 mm)</td>
</tr>
<tr>
<td></td>
<td>Weight: 7.20 oz (204 g) (including stylus)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0° to +40° C (+32° to +120° F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-25° to 75° C (-13° to 167° F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>95% non-condensing</td>
</tr>
</tbody>
</table>
| **Antimicrobial Rating**  
(***SoMo 650Rx only***) | JIS Z2801:2000 Test  
- 2.49 on Methicillin resistant *Staphylococcus aureus* (MRSA)  
- 6.07 when cleaned with Sani-Cloth® Plus brand disposable cloth wipes |
| **Drop Specification** | Multiple 1 m (3.3 ft) drops to vinyl-covered concrete  
With optional DuraCase protective case (sold separately): Multiple 1.3 m (4.3 ft) drops to vinyl-covered concrete |
| **ESD Specification** | +/- 8kV air discharge, +/- 8kV direct discharge |
| **Operating Systems Available** | Microsoft Windows Mobile 6 Classic  
*Note: If you have a SoMo 650 running Windows Mobile 5.0, an upgrade DVD for Windows Mobile 6 is available, SKU# SW1241-893* |
| **Pre-Loaded Socket Software** | Socket Wi-Fi Companion™  
Socket Enhanced Wi-Fi Companion™ (available in SP4 or later)*  
Socket SocketScan™ 10 (supports Socket CHS Series 7 v3 barcode scanners, available in SP8 or later)*  
Socket SocketScan™ (supports Socket plug-in barcode / RFID / magnetic stripe readers, Socket CHS Series 7 v2, Socket CRS Series 9 and UIC683 contactless smart card reader)  
Socket Connect!Agent™ (for Socket CHS Series 7 v2 and Socket CRS Series 9; needs to be manually installed via Getting Started wizard for SP8 or later)  
Socket Modem and Ethernet Utilities  
Socket SoMo 650 Back Pack Utilities  
Socket Power Plus Battery Friendly Utility  
Socket CPU Performance Utility  
Socket Hold Switch Utility  
*Enhanced Wi-Fi Companion and SocketScan 10 are pre-loaded but need to be manually installed via a Getting Started Wizard.* |
| **Pre-Loaded Third-Party Software** | Programmable Home Screen  
Calculator  
MSN Messenger Client  
Word Mobile, Excel Mobile, PowerPoint Mobile  
IE Mobile, Outlook Mobile  
.NET Compact Framework v2.0  
Remote Desktop Mobile  
Windows Media Player 10.2 Mobile  
ActiveSync Client v4.x  
SocketSerial drivers  
SOTI MobiScan Agent (available in SP8 or later)  
Sprite Backup (trial version) |
APPENDIX B
CARE AND MAINTENANCE

For important safety and usage instructions, please refer to page 3.

Cleaning the SoMo 650 or SoMo 650DX:
• With the device switched off, clean the SoMo 650 by wiping it with a soft, clean cloth that is lint-free and slightly moistened. Do not allow the earpiece, microphone, speaker, card slots, sync/charging port or other metal surfaces to get wet.

• Do not wipe the SoMo with any corrosive liquid or coarse objects. This can damage the outer surface of the device.

Cleaning the SoMo 650Rx (antimicrobial version):
• Socket recommends Sani-Cloth® Plus brand disposable cloth wipes as the standard disinfectant wipe for the SoMo 650Rx handheld computer. Doing so will increase the JIS Z2801:2000 antimicrobial rating from 2.49 to 6.07.

• Do not use bleach-based or Dispatch® brand cloth wipes, as they negate all antimicrobial properties that have been added to the device.

Carrying or Storing the SoMo:
• Do not leave the SoMo in extremely high or low temperature environments.

• Remove the battery of the SoMo if it is not going to be used for a long period of time. Store the SoMo and its battery in a cool, dark, and dry place.
APPENDIX C

RESETTING THE SoMo 650

The SoMo 650 supports the three levels of reset defined by Microsoft for Windows Mobile powered devices:

- Soft Reset - sometimes called a “warm” reset
- Hard Reset - sometimes called a “cold” reset
- Clean Reset - sometimes called a “clean boot”

Each of these resets is designed to clear different levels of data storage and impact the hardware differently.

Additionally, removing the battery and any external sources of power from the SoMo 650 will result in the equivalent of a reset.

The following Table summarizes the system impact under these modes of operation:

<table>
<thead>
<tr>
<th>State of SoMo 650 After:</th>
<th>All Installed Applications and Registry Settings</th>
<th>Running Programs</th>
<th>Data Associated with Running Programs</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft Reset</td>
<td>No impact</td>
<td>Stopped</td>
<td>Lost</td>
<td>No impact</td>
</tr>
<tr>
<td>Hard Reset</td>
<td>No impact</td>
<td>Stopped</td>
<td>Lost</td>
<td>Lost</td>
</tr>
<tr>
<td>Clean Reset</td>
<td>Removed</td>
<td>Stopped</td>
<td>Lost</td>
<td>Lost</td>
</tr>
<tr>
<td>Battery &amp; external power removed for less than 5 minutes</td>
<td>No impact</td>
<td>Stopped</td>
<td>Lost</td>
<td>No impact</td>
</tr>
<tr>
<td>Battery &amp; external power removed for more than 10 minutes</td>
<td>No impact</td>
<td>Stopped</td>
<td>Lost</td>
<td>Lost</td>
</tr>
</tbody>
</table>

☑️ The SoMo has a power backup that maintains the date and time if the battery and all external power sources are removed. If the SoMo does not have a battery or external power source for 10 minutes, the date and time will be lost, and the power backup must be recharged for at least 10 minutes for it to properly maintain the date and time.
**Soft Reset**

A soft reset is like rebooting a computer. It is designed to stop all applications and clear out temporary data associated with running programs. No files are deleted. A soft reset is the lowest level of reset, (i.e., it clears the least amount of the device state).

It can also be used to stop application programs that are “hung” and do not respond to external input. Since Windows Mobile powered devices do not normally shut down an application after it is started, this is one way to stop all applications.

**To perform a soft reset:**

Using the tip of your stylus, lightly press the Soft Reset button inside the hole on the bottom of your SoMo 650 and then release.
**Hard Reset**
A hard reset is designed to clear all processor states, running programs, and user data. It also drives the hardware reset line to the processor, thereby clearing all system states, including the date and time. This reset should be used to remove the operating system from a “hung” or “frozen” state because of a fatal program or operating system error.

A hard reset will clear all user-installed settings, applications, and data from RAM (Random Access Memory), but any applications or configurations saved in the SoMo File Store will remain. It is useful for clearing some states that are not normally cleared with a Soft Reset.

**To perform a hard reset:**
1. Press and hold the Calendar and Contacts shortcut buttons on your SoMo 650.
2. While holding the two buttons, using the tip of your stylus, lightly press the Reset button inside the hole on the bottom of your SoMo 650. Release the Calendar and Contacts shortcut buttons.

3. A Socket Splash Screen will appear and disappear. Follow the onscreen instructions.

Press the two shortcut buttons with the index and middle finger of one hand. Hold the stylus in your other hand to press the reset button and then release.
Clean Reset
A clean reset is designed to revert the device to its factory default settings (or the latest service pack ROM update). All installed programs, data and registry settings will be cleared, except those saved in the SoMo File Store. A clean reset also drives the processor with a hardware reset, thus clearing all system states, including the date and time.

⚠️ CAUTION: A CLEAN RESET IS MORE POWERFUL THAN A SOFT OR HARD RESET. IT WILL DELETE ALL USER APPLICATION FILES AND FOLDERS. WHEN YOU PERFORM A CLEAN RESET, FORMATS, PREFERENCES AND OTHER SETTINGS INCLUDING DATE AND TIME ARE RESTORED TO THEIR FACTORY DEFAULTS. ALL DATA, RECORDS AND ENTRIES, EXCEPT THOSE STORED IN ROM, WILL BE ERASED.

✅ If you set a security password on the SoMo 650 and forget it, a clean reset will remove the password setting.

To perform a clean reset:
1. Press and hold the Left Programmable Application Button, the Calendar and Contacts shortcut buttons on your SoMo 650.
2. While holding the three buttons, using the tip of your stylus, lightly press the Reset button inside the hole on the bottom of your SoMo 650 and then release.

It is recommended that you hold the SoMo 650 in your left hand. Press the left programmable action button with your left thumb and the two shortcut buttons with your left index and middle finger. Hold the stylus in your right hand to press the reset button.
3. Keep pressing all three buttons until a splash screen appears with the Socket logo and then disappears.

4. After the Socket Splash Screen disappears, release the three buttons and follow the onscreen instructions.
APPENDIX D
UPGRADING THE ROM IMAGE

ADVANCED USERS ONLY!
Upgrades are available free to registered users. Log in to submit a request at: http://support.socketmobile.com. With Windows Mobile 6 SP6 and later the SoMo File Store can also be upgraded.

WARNING! You will lose all data files and applications during the upgrade process!

STEP 1: Power the Device
Socket highly recommends that you plug the SoMo 650 into an external power source using the charging cable/cradle. Alternatively, make sure the SoMo battery is adequately charged.

STEP 2: Back up Data on the Device
If you have any data on the SoMo 650, please back it up before you run the update.

STEP 3: Transfer Files using a Memory Card

IMPORTANT! It is not recommended to transfer the files using ActiveSync or the Windows Mobile Device Center!

The directory SOMO650 containing the ROM image files must be moved to the SoMo 650 with a SD or CF memory card that is formatted in FAT12 or FAT16. Make sure your memory card has at least 40 MB of free space.

Most higher capacity cards are formatted by default in FAT32, which is not supported. SDHC cards are not supported in Windows Mobile 5.

1. On your PC, use My Computer or Windows Explorer to locate the directory SOMO650, which contains the upgrade files.

2. Copy the SOMO650 directory to the root of your memory card.

IMPORTANT!

Copy the SOMO650 directory to the root of the memory card!

Example: F:/SOMO650

NOT: F:/Socket/SOMO650

DO NOT change the name of the folder!

3. Insert the memory card into the SoMo 650.
STEP 4: Install the Files

1. Press and hold the Right programmable application button, and the Calendar and Contacts shortcut buttons on your SoMo 650.

2. While holding the three buttons, use the stylus to quickly press the Reset button inside the hole on the bottom of your SoMo 650. Keep holding the Right programmable application button.

3. An EBOOT screen will appear with a timer, counting down from 5 seconds.

   IMPORTANT! Keep holding the Right programmable application button until the timer reaches 0 seconds! Otherwise the installation will be aborted.
4. The SoMo 650 will begin to download and update the ROM image.

5. After the installation reports, “Update completed!” the Socket splash screen will appear for about 30 seconds.

6. The Windows Mobile splash screen will appear for about 30 seconds.

7. The Windows Welcome wizard will prompt you to set up Windows Mobile. Follow the instructions on your screen.

8. After setting up Windows Mobile, the Today screen will appear, and the SoMo 650 is ready to use.
APPENDIX E
TROUBLESHOOTING

SYMPOTOM: When I press the power button, the SoMo does not turn on.

<table>
<thead>
<tr>
<th>POSSIBLE REASON</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The SoMo battery does not have adequate charge.</td>
<td>Plug the SoMo into AC power or insert a charged battery.</td>
</tr>
<tr>
<td>The SoMo hold switch is on.</td>
<td>Slide up the hold switch on the left side of the SoMo. If you have a new SoMo, remove the sticker on top of the hold switch.</td>
</tr>
</tbody>
</table>

SYMPOTOM: I connected the SoMo to a PC via the USB cable, but the SoMo does not charge.

<table>
<thead>
<tr>
<th>POSSIBLE REASON</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your SoMo runs Windows Mobile 6 Service Pack 7 or later and has USB charging disabled.</td>
<td>Tap Start</td>
</tr>
</tbody>
</table>
APPENDIX F

TECHNICAL SUPPORT

If you have trouble installing or using the SoMo 650, Socket has different support options to help you.

**Online Knowledge Base:**
Search for articles, Frequently Asked Questions or Hot Topics any time, day or night. http://support.socketmobile.com/EU_S1a.asp

**Online Requests:**
Register your product and submit a question to our Technical Support Team. http://support.socketmobile.com

**By Phone:**
- Direct: +1- 510-933-3020
- EU +49 9401 5299 036
LIMITED WARRANTY

Socket Mobile Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase. Product must be purchased new from a Socket Authorized Distributor or Reseller. Used products and products purchased through non-authorized channels are not eligible for this warranty support.

EXCEPTIONS: Consumables such as batteries, removable cables, cases, straps, stylus, memory cards, chargers, and CF-to-PC Card adapters: 90 day coverage only

An enhanced warranty is available separately for some Socket products. For more information, please visit: http://support.socketmobile.com

Incompatibility is not a defect covered by the Socket warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by an authorized Socket Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the remainder of the original warranty period, whichever is greater.

This warranty does not cover the repair or replacement of products damaged by abuse, accident, lost products, use beyond Socket’s published specifications, liquid immersion, misuse or misapplication, damages caused by an act of God, nor as a result of service or modification other than by Socket unless specifically described by Socket in product documentation. This warranty does not provide coverage for any product updates, for example, updates due to design changes, except as deemed necessary by Socket, and does not cover any calibration or adjustments necessary for product functionality. This warranty does not cover refurbishing cosmetic damages such as scratched paint, cases or LCD screens. This warranty is void if you install batteries into the product that were not supplied or approved by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. This product may contain fully tested, recycled parts, warranted as if new. For more warranty information, please visit: http://support.socketmobile.com

PRODUCT DISPOSAL: Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.
DISCLAIMER

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LIMITED WARRANTY. SOCKET warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. SOCKET'S entire liability and your exclusive remedy shall be, at SOCKET'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET'S Limited Warranty and which is returned to SOCKET with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

NO OTHER WARRANTIES. SOCKET disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

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REGULATORY COMPLIANCE

FCC: Part 15, Class B
Industry Canada
CE: EN
TELEC
NOM, COFETEL
RoHS and WEEE compliant
Electrical Safety EN60950, UL, CUL
EMI/RFI
Wi-Fi Alliance Certification
Bluetooth Certification (BQB test), Bluetooth QD ID B012762
USB IF Test
Microsoft Windows Mobile 5.0, 6.1 Logo Test Certification
EU/International: EN301 489-1, -17
EN61000-4-2: 1995, ESD ± 8kV air/±4kV contact
EN61000-4-3: 1997, radiated Immunity 3V/m
EN61000-4-4: 1995, EFT ± 0.5kV
EN61000-4-5: 1995, Surge ± 0.5kV
EN61000-4-6: 1

FCC Interference Statement (USA)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
IMPORTANT: RADIATION EXPOSURE STATEMENT

THIS EQUIPMENT COMPLIES WITH FCC RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT. END USERS MUST FOLLOW THE SPECIFIC OPERATING INSTRUCTIONS FOR SATISFYING RF EXPOSURE COMPLIANCE. TO MAINTAIN COMPLIANCE WITH FCC RF EXPOSURE COMPLIANCE REQUIREMENTS, PLEASE FOLLOW OPERATION INSTRUCTIONS AS DOCUMENTED IN THIS MANUAL.

This PDA has been tested and demonstrated compliance when Bluetooth and WLAN are transmitting simultaneously. This PDA must not be co-located or operating in conjunction with any other antenna or transmitter.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines when used with the Socket accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

Industry Canada Statement:
This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT: RADIATION EXPOSURE STATEMENT

THIS EQUIPMENT COMPLIES WITH IC RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT. END USERS MUST FOLLOW THE SPECIFIC OPERATING INSTRUCTIONS FOR SATISFYING RF EXPOSURE COMPLIANCE. TO MAINTAIN COMPLIANCE WITH IC RF EXPOSURE COMPLIANCE REQUIREMENTS, PLEASE FOLLOW OPERATION INSTRUCTIONS AS DOCUMENTED IN THIS MANUAL.

European Union Notice:

Compliance with these directives implies conformity to the following European Norms:

- EN 60950  Product Safety
- EN 300 328  Technical requirement for radio equipment
- EN 301 489-1/-17  General EMC requirements for radio equipment

Mexico:
NOM: 0802CE05828
COFETEL: RCPSOSO08-0567