socket mobile

socketmobile.com

SOCKETSCAN™ 800 SERIES USERGUIDE

ATTACHABLE

Bluetooth® wireless technology Cordless Barcode Scanner

www.socketmobile.com

PACKAGE CONTENTS

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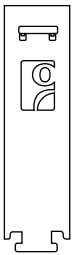
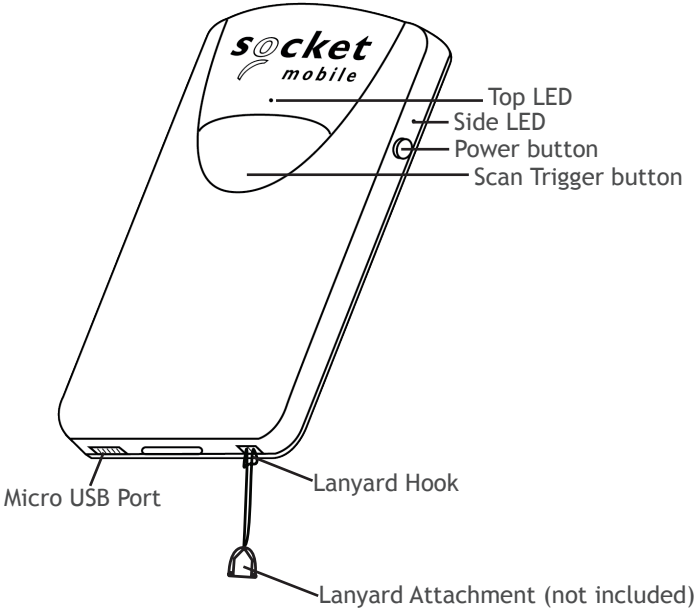
SocketScan™
800 Series



Universal
Klip Case

USB Charging Cable

Thank you for choosing Socket Mobile!
Let's get started!



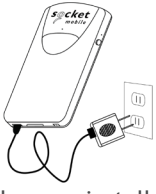
Socket Mobile's barcodes scanners can be wiped clean with a cloth dampened with isopropyl alcohol or water. Or, the barcode scanners can be wiped clean with a Sani-Cloth.

Warning: DO NOT IMMERSE IN WATER (scanner's mechanics could be damaged)

DO NOT USE BLEACH FOR CLEANING (scanner's material property may be affected)

1. Insert charging cable into an AC charging adapter (not included - most smartphones and tablets come with AC Adapters that look something like this.)
2. Plug charging adapter (not included) into an outlet.
3. Insert Micro USB into the 800 Series USB port.
4. The 800 Series will beep twice indicating adequate power is being supplied to the unit.

4 Hours



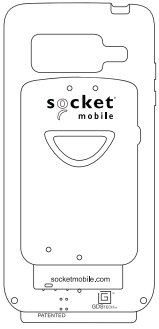
Side LED status
- Red = Charging
- Green = Fully charged

Note: The SocketScan comes with a pre-installed rechargeable Lithium Ion battery, the initial full charging of the battery can take up to 4 hours.

Power On

Press and hold down the small power button on the side until the SocketScan beeps twice (low-high tone).

OPTIONAL CHARGING ACCESSORIES

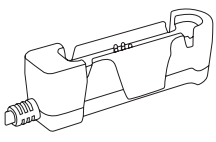


DuraCase

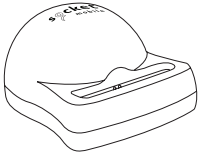
Socket Mobile DuraCase™ combines and safeguards both the 800 Series and mobile device as a one-handed scanning solution that simultaneously charges both devices.

Available for Apple® iPod touch®, Samsung J3/J5* and Samsung S7*.

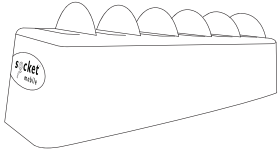
Watch our video on how to setup your DuraCase.



DuraCase
Charging Adapter



DuraCase
Charging Dock



DuraCase
6 Multi-Bay Charger

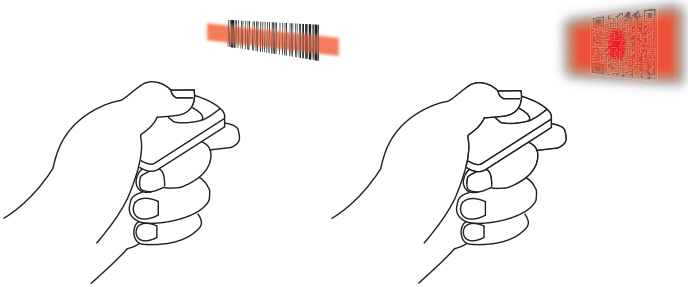
Due to varying countries' outlets, the DuraCase 6 Multi-Bay Charger power cords are NOT included in the package.

*On Samsung mobile devices, be sure to disable Fast Charge.

After connecting the SocketScan to your device, open an application. Place the cursor where you want to enter the scanned data.

1. Hold the SocketScan a few inches from the barcode.
2. Aim, press and hold the trigger button.

By default, the SocketScan will beep, vibrate, and the side LED will flash green to confirm successful scan.



SocketScan S800
~4” to 8”
scanning distance

SocketScan S850
~6” to 12”
scanning distance

BLUETOOTH CONNECTION MODES

Connect your scanner using one of the following Bluetooth connection modes:

Bluetooth Connection Profiles

Bluetooth Mode	Description
Basic Mode (HID) (Default)* Human Interface Device Profile	• NO software installation required • Connects to most devices • Good for barcodes containing small amounts of data • Scanner interacts with host device like a keyboard
Application Mode (SPP) Serial Port Profile	For Android or Windows • Software installation is required • More efficient and reliable data communications for barcodes containing lots of data • If you have an application that supports Socket Mobile Scanners this is the mode recommended
Application Mode (MFi-SPP) Apple Specific Serial Profile	For iOS Devices • Must use with an App developed to work with iOS devices • Software installation is required • If you have an iOS application that supports Socket Mobile Scanners this is the mode you want to use

***By default, the scanner is set to Basic Mode (HID).**

Operating System Connection Options

Operating Systems (OS)	Devices	Bluetooth HID Support	Bluetooth SPP Support	Bluetooth Apple Serial Specific (MFi Mode)
Android	Android 4.0.3 & later	Yes	Yes	N/A
Apple iOS	iPod, iPhone, & iPad	Yes	N/A	Yes
Windows PC	Windows 7, 8, 10	Yes	Yes	N/A
Mac OS	Mac OS X 10.4 to 10.X Mac Books, Mac Mini, & iMac	Yes	No	N/A

Note: To switch from one mode to the other you must remove the pairing information from both devices - host computer and the scanner. (see unpairing procedure on page 16)

The SocketScan will unpair and automatically power off. The next time you power on the SocketScan, it will be discoverable.

Select the appropriate mode and pair with the second host device.

Android: Connect Android Device in Basic Mode (HID)

In this mode the scanner functions and communicates similar to a keyboard. Therefore, scanner will work with Notes, and any other application that supports an active cursor.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired) and the blue light blinks fast.
2. Go to Settings | Bluetooth.
3. Make sure the device's Bluetooth is turned "On" to scan for devices.
4. In the list of found devices, select Socket CHS [xxxxxx]. Tap Pair.
5. The scanner will connect to the Android device.
6. The scanner will beep once after it has connected.

Note: If you have trouble connecting or pairing with host device, turn host device's Bluetooth off/on, and/or perform factory reset to the scanner (see page 44).

Now you are ready to scan barcodes!

To connect to a new device or use a different profile (mode) on the same device, you must first unpair the scanner (see page 22).

Apple: Connect Apple iOS Device or Mac OS Device in Basic Mode

In this mode the scanner functions and communicates similar to a keyboard. Therefore, scanner will work with Safari, Notes, and any other application that support an active cursor.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired). The Blue light blinks fast.
2. Start a Bluetooth device search.
   - Settings | Bluetooth: Turn on Bluetooth and search for device.
   - Mac OS: Click System Preferences | Bluetooth. A Bluetooth device search will begin.
3. In the device list, tap on CHS [xxxxxx].
4. The scanner will connect to the Apple device.
5. The scanner will beep once after it has connected.

Now you are ready to scan barcodes!

To use the virtual keyboard while the scanner is connected, double tap on the power button (similar to double clicking a mouse).

To connect to a new device or use a different profile (mode) on the same device, you must first unpair the scanner (see page 22).

Windows: Connect Windows PC

1. Power on the scanner. Make sure the scanner is discoverable (unpaired).
2. Use your computer's Bluetooth Settings to connect to the scanner.
3. Select "Add a device".
4. In the device list, select Socket CHS [xxxxxx]. Click Next.
5. If a passkey is requested, enter 0000 (four zeroes). Click OK.
6. Follow the remaining screens to complete the wizard.

***Note**: On some computers the DuraScan will have to be configured as a peripheral class of device. Please, refer to the Command Sheet Barcode for details.*

Connect Android & Windows Device Quickly:

1. Download the latest SocketScan 10 software from Socket Mobile's support web page.
2. Power on the scanner and scan this barcode. The scanner will beep 3 times.

3. Turn Bluetooth on for your device. Go to Settings > Bluetooth. A Bluetooth Devices search will begin.
4. Tap Socket CHS[xxxxxx] in the list of Devices found. After a few seconds the "Not Paired" status will change to "Connected" and the scanner's Blue LED will blink every 3 seconds confirming the connection.

Connect Android device in Application Mode using EZ Pair

Install Software

1. Go to GooglePlay Store, search for “SocketScan ”.
2. Download & install. Follow the on screen instructions.

Getting Started

3. Follow the on screen instructions.
4. Tap on screen the ON SCREEN button.
5. Tap on screen the 1D SCANNER button.
6. Scan the barcode on the device screen. Wait a few seconds. The scanner will beep 3 times indicating it has accepted the command to connect to your device.
7. When notified of a pairing request, swipe the notification icon down, then tap Pairing request.
8. On the next screen, tap Pair.
9. The scanner will beep once to indicate connected state and is ready to scan barcodes. Tap Back to close Socket EZ Pair.
10. If you are connecting a scanner which is not registered, a scanner registration icon will appear on top of the screen. Swipe the icon down to open the registration screen. Follow the instructions to register your Scanner. Socket Mobile highly recommends that all customers register their products for future updates, but registration is optional.

Now you are ready to scan barcodes!

Connect Windows PC in Application Mode

Note: Make sure you have administrative privileges.

1. Download the latest SocketScan 10 software from Socket Mobile's support web page.
2. Follow the on-screen instructions to install the software.
3. In SocketScan 10 Settings, select an incoming Bluetooth serial COM port.

Note: If there is none please click Ports to create at least one new incoming COM port in Bluetooth settings.

4. Click Finish.

Now you are ready to scan barcodes!

To pair the scanner with Windows PC using EZ Pair:

1. Power on the scanner. Make sure the scanner is available to be connected to Bluetooth (unpaired).
2. Launch SocketScan 10 and click on the SocketScan 10 icon in the task tray. In the pop-up menu, click Socket EZ Pair.
3. Click **1D Scanner** (S800) or **2D Scanner** (S850) accordingly.
4. Scan the barcode that appears on the screen.
5. The PC will automatically try to pair with the scanner. If prompted to allow the pairing, click Yes. If prompted for a passkey, enter 0000 (four zeroes).
6. After the scanner connects, it will beep once. Close Socket EZ Pair.
   6a. In Windows 10 if this step can not be done, open the Bluetooth settings and add and pair the scanner manually.
7. If you are connecting a scanner which is not registered, a scanner registration icon will appear on top of the screen. Follow the instructions to register your scanner. Socket Mobile highly recommends that all customers register their products, but registration is optional.
8. The task tray icon will change to indicate the status of the connection.

Now you are ready to scan barcodes.

Made for iPod iPhone iPad

Connect Apple iOS device in Application Mode

Please check with your scanner application vendor or visit www.socketmobile.com/appstore to confirm your scanner-enabled application supports the scanner.

If you are using the scanner with an Apple iOS device and a scanner-enabled Application that does not provide instructions how to connect your scanner, please use the following steps.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired). The Blue light should be blinking fast.

2. To change the profile to Application Mode scan this barcode. The scanner will beep 3 times.

Use with iPad, iPod touch, and iPhones.

(Scanning this barcode changes the connection mode)

3. Turn on Bluetooth on the Apple device. Go to Settings > Bluetooth. A Bluetooth Devices search will begin.
4. Tap Socket CHS[xxxxxx] in the list of other devices found. After a

few seconds the “Not Paired” status will change to “Connected” or “Paired” and the scanner blue LED will stop blinking and turn solid blue.

Note: The characters in brackets are the last 6 characters of the Bluetooth Address.

5. Launch your scanner-enabled Application. The scanner will beep once indicating that it is connected to the appropriate application.

Now you are ready to scan barcodes!

For busy days on the job, try using the Active Mode to keep you moving faster. Avoid the hassle of turning the scanner on again and reconnecting to your host device.

Scan one of the barcodes below and reconfigure the scanner to remain on longer.

Note: Turn off the host device's Bluetooth prior to scanning one of the alternate timer barcodes. Then turn the Bluetooth back on.
Power cycle the scanner (turn off/on).

Scanner Always On*
Configures the scanner to never power off.


#FNB012100000000#

Constant Power for 8 hours*
Scan Barcode to configure the scanner to remain on for 8 hours.


#FNB012101E001E0#

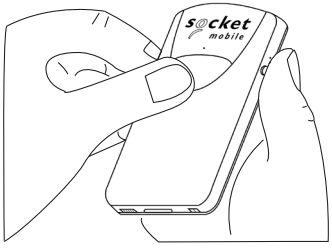
Constant Power for 4 hours*
Scan Barcode to configure the scanner to remain on for 4 hours.


#FNB012100F000F0#

***These settings drain the battery faster. It is assumed you will charge the scanner within a 24-hour period or overnight. If you don't, the scanner's battery will drain completely.**

Return Scanner to Default Settigs

Turns the scanner off when it is not in use – 3 to 5 minutes after being disconnected from host device.



Note: This procedure will put the SocketScan in discoverable mode.

Step 1: Unpairing the scanner: Delete the Bluetooth Pairing

If the scanner is paired with a device, unpair it before trying to connect to a different device.

a. Power on the scanner.
b. Press the trigger button then power button and hold both until you hear 3 beeps.

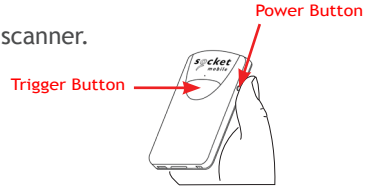
The scanner will unpair and automatically power off. The next time you power on the scanner, it will be discoverable.

Step 2: Remove or forget the scanner from the Bluetooth list on the host device.

Important: Both steps above must be done to complete the unpairing.

Factory Reset will restore the scanner to Factory Default settings (configured as shipped). If your scanner cannot scan the Factory Default barcode on page 35, then **Follow this Factory Reset (button) sequence:**

1. Turn ON the scanner.



2. Press and hold the trigger button[1], then quickly press and release the power button[2], while continuing to hold the trigger button.
3.

4. Let go of trigger button after the scanner beeps once (after 15 seconds). Five confirmation tones will sound from high to low tones and then the scanner will turn OFF.

Note: If you follow this sequence, but release the trigger button too early (before 15 seconds and the beep) the Factory Reset will have failed.

NOTE: If your scanner remains in an unresponsive state after following the Factory Reset, use the Restore Method as a last resort.

The Restore Method should be the last attempt used to revive an unresponsive scanner. It will reinitialize the core hardware.

1. Make sure your scanner is OFF.
2. Press and hold the power button until the LED light goes on and off (about 15 seconds)

Top LED Bluetooth	LED Activity	Meaning
	Quick Blinking Blue (2 blinks every second)	Discoverable - waiting for a host Bluetooth connection.
	Slow Blinking Blue (1 blink every second)	Attempting to connect to a paired device. Searching the last known Host. Note: Will STOP attempting after approx. 1 minute.
	Solid Blue	Scanner connected
Side LED	**LED Activity**	**Meaning**
	Blink Green Once	Good Scan/Read
Side LED Battery Status	**LED Activity**	**Meaning**
	Solid Red (while charging)	Charging the battery
	Blinking Red	Battery capacity below 20%
	Solid Green (while charging)	Battery is 100% full

Beep Pattern	Sound Meaning
Low-High Tone	Power On
High-Low Tone	Power Off
High-High Tone	Power Supply detected and scanner started charging
1 Low Beep	Scanner has toggled on-screen keyboard or keyboard toggle feature is enabled (iOS devices only)
1 Beep	Scanner connected to device and is ready to scan barcodes
1 Beep	Data successfully scanned
2 Beeps (same tone)	Scanner disconnected
1 Long Beep	Scanner gave up searching for a host
3 Beeps (escalating tone)	Scanner has been reconfigured (the command barcode was scanned successfully)
3 Beeps (escalating tone followed by long tone)	The command barcode did NOT work! (Verify if the command barcode used is valid for your scanner and try again)

Vibrate	Meaning
Vibrate	Data successfully scanned

Command Barcodes are available on pages 43-46 to modify the LED, beep, and vibrate settings.

If you are using a scanner-enabled application, typically the application provides settings for LED, beep, and vibrate settings.

Configuration Settings

Time after powering on Scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5 minutes	If connection is not made, scanner powers off
2 hours	If your scanner is connected but not used it will power off in 2 hours. When trigger button is pressed the timer is reset.

Specifications	S800	S850
Dimensions (L x W x H)	3.42 x 0.52 x 2.12 in. (86.9 x 53.94 x 13.43 mm)	
Total Mass	1.7 oz (48.2 g)	
Antimicrobial	Antimicrobial additive in external surfaces	
Battery	Lithium ion rechargeable battery	
Charge Time	4 Hours	
Battery Life - Per Full Charge	8,000 scans within 9 hours (calculation based on 1 scan every 4 seconds)	34,000 scans within 3 hours (based on 2 scans every 1 second) or 1,000 scans within 10 hours (based on 1 scan every 4 seconds)
	Note: Battery life varies depending on ambient temperature, ambient light, and age of battery.	
Bluetooth Version	Class 1 Bluetooth v2.1 + EDR with 56 bit data encryption	
Wireless Range	Up to 10 m (33 ft), depending on environment	
Scanner Type	1D Linear Imager	2D/1D Omni-directional Imager

Specifications	S800	S850
Symbologies	All major 1D barcodes	All major 1D and 2D barcodes
Supported Language Settings [in Basic Mode (HID)]	English, French, German, Spanish	
Systems/Battery Charging Requirement	USB Type 5V 1A	
Ambient Light	From 0 to 100 000 lux	
Operating Temperature	+32 to +122˚F (0 to +50˚C)	
Storage Temperature	-22 to +158˚F (-30 to +70˚C)	
Relative Humidity	5% to 95% non-condensing	
Sealing	IP40	
Drop Specifications	Multiple 3.3 ft (1 m) drops to vinyl covered concrete	

Technical Support & Product Registration:
https://support.socketmobile.com
Phone: 800-279-1390 +1-510-933-3020 (worldwide)

Warranty Checker:
https://www.socketmobile.com/support/warranty-checker

Socket Mobile Developer Program:
Learn more at: http://www.socketmobile.com/developers

The User's Guide (full installation and usage instructions) and Command Barcodes (Advanced Scanner Configurations) can be download at:
https://www.socketmobile.com/support/downloads

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.

CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

CE MARKING AND EUROPEAN UNION COMPLIANCE
Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant with all the applicable Directives, 2004/108/EC and 2006/95/EC.
This product is compliant to Directive 2002/95/EC.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT
The WEEE directive places an obligation on all EU-based manufacturers and importers to take-back electronic products at the end of their useful life.

ROHS STATEMENT OF COMPLIANCE
This product is compliant to Directive 2002/95/EC.

NON-MODIFICATION STATEMENT
Changes or modifications not expressly approved by the party responsible for compliance.

For more warranty information, please visit:
https://www.socketmobile.com/support/downloads

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.

Warranty benefits are in addition to rights provided under local consumer laws. You may be required to furnish proof of purchase details when making a claim under this warranty.

Consumables such as batteries, removable cables, cases, straps, and chargers: 90 day coverage only

For more warranty information, please visit:
https://www.socketmobile.com/support/downloads

Important! Make sure the scanner is not connected to a host computer or device before scanning a command barcode!

Bluetooth Connection Modes	
Basic Mode (HID) *(default)* Configures the Scanner to Human Interface Device (HID) mode as a Keyboard class device #FNB00F40001#	
Application Mode (SPP) Changes the Scanner to Serial Port Profile (SPP) mode #FNB00F40000#	
Application Mode (MFi-SPP) Changes the Scanner to MFi mode for Apple iOS Devices #FNB00F40002#	

Important! Make sure the scanner is not connected to a host computer or device before scanning a command barcode!

Beep Settings	
Beep after scanner Decodes Data ON (default) Enables scanner to beep to indicate successful scans. #FNB0119E0001 00030078004B#	
Beep after scanner Decodes Data OFF Disables scanner from beeping to indicate successful scans. #FNB01190E00010 0000078004B#	

Vibrate Settings	
Vibrate ON (default) Enables scanner to vibrate to indicate successful scans. #FNB01310001000100FA0000#	
Vibrate OFF Disables scanner from vibrating to indicate successful scans. #FNB013100010000#	

Factory Default	
Factory Reset Revert all settings to factory defaults. The scanner will power off after scanning this barcode. #FNB00F0#	

For more command codes go to:
https://www.socketmobile.com/support/download

Extend Your Warranty...

Receive Priority Service and Personal Care.

You have 60 Days from purchase date to enroll in a SocketCare Service Program!

For detailed information visit:

https://www.socketmobile.com/socketcare