

## LINEAR BARCODE PLUS QR CODE - D720, D820, DS820, S720 AND S820



Model: D720



Model: S720



Model: S820



Model: DS820



Model: D820


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Download the Socket Mobile Companion app to set-up your barcode scanner.

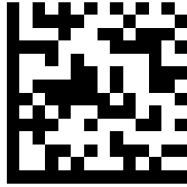


Scan QR Code with your device to visit the Companion app download page, or go to [socketmobile.com/support/companion](https://socketmobile.com/support/companion)

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

## Factory Reset

Configures the scanner to factory defaults. The scanner powers off after scanning this barcode.



## Pairing Reset

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

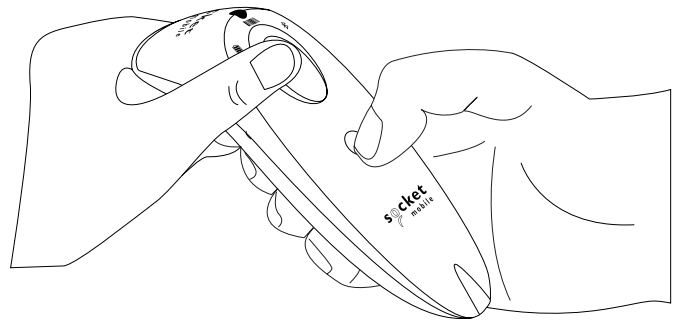
**Step 1: Scan barcode (for serial number that begins 1931 and above only).**



Or follow steps to manually reset scanner:

- Power on the scanner.
- Press and hold down the scan button.
- Press and hold down the power button.
- After you hear 3 beeps, release both buttons.

The scanner will unpair and automatically power off.




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

The scanner is now discoverable.

 Both steps above must be done to complete the unpairing.

# BLUETOOTH CONNECTION MODE

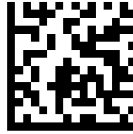
 Make sure the scanner is not connected to a host computer or device before scanning a command barcode.

Scan command barcode(s) to configure the scanner.

## iOS Application Mode for Apple Devices (default)



\*Required for Apple iOS applications developed with Socket Mobile SDK.



## Application Mode (Auto Connect-SPP) for Windows or Android 8.0 and later



\*Configures the scanner to Serial Port Profile.



## Application Mode (SPP) for Windows or Android version 7.0 and lower



\*Configures the scanner to Serial Port Profile (SPP).



## Basic Mode (HID)



 (All host devices)

Configures the scanner to Human Interface Device (HID) mode. The scanner will be discoverable as a keyboard to other Bluetooth devices.



**\*For compatible applications developed with Socket Mobile SDK:  
[socketmobile.com/partners/app](http://socketmobile.com/partners/app)**

You can configure the scanner to automatically add a prefix and/or suffix to each scan of data. Scanner is allowed 1 prefix and 2 suffixes.

For custom prefix and suffix, contact [support@socketmobile.com](mailto:support@socketmobile.com).

Note: Scanning multiple commands in a single instance will overwrite (not append) the previous command.

## Suffix – Carriage Return (default)

Configures the scanner to add a carriage return after decoded data.



## Suffix – Tab

Configures the scanner to add a tab after decoded data.



## Suffix – Carriage Return and Line Feed


Configures the scanner to add a carriage return and line feed after decoded data.



## Data As Is

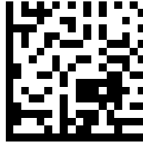
Configures the scanner to return only the decoded data (i.e., no prefix or suffix).



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

## **Vibrate "On" (default)**

Enable the scanner to vibrate to indicate a successful scan.



## **Vibrate "Off"**

Disable the scanner from vibrating to indicate a successful scan.



## **Beep "On" (default)**

Enable the scanner to beep to indicate a successful scan.



## **Beep "Off"**

Disable the scanner from beeping to indicate a successful scan.



 Scan one of the barcodes to reconfigure the scanner to remain powered on for a longer time.

These settings drain the battery faster. Please ensure the scanner is charged daily.

## 2 hours (default)

Scanner powers off in 2 hours when idle/inactive while connected and 5 minutes when disconnected.



## Continuous Power for 4 hours

Configures the scanner to remain on for 4 hours after the last scan is performed.



## Continuous Power for 8 hours

Configures the scanner to remain on for 8 hours after the last scan is performed.



## Scanner Always On

Configures the scanner to never power off.





Scan one of the barcodes to configure the scanner to automatically scan barcodes.

 For model D720 and S720 only.

 These settings drain the battery faster. Please ensure the scanner is charged daily.

## Mobile Mode (default)

Reverts back to manual scan mode. For model D720 and S720 only.



#FNB 41FBA50000#

## Auto Mode (recommended)

Configures the scanner to switch to presentation mode when power is detected on the charging pins. The scanner will remain on presentation mode until the scan button is pressed to exit the mode. For model D740 and S740 only.



#FNB 41FBA50003#

## Detect Mode

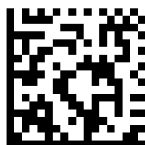
Configures the scanner to switch to presentation mode when power is detected on the charging pins. The automatic scan will continue until power is removed. For model D740 and S740 only.



#FNB 41FBA50002#

## Stand Mode

Scanner is permanently in presentation mode. For model D720 and S720 only.



#FNB 41FBA50001#

# HID KEYBOARD LANGUAGE SETTINGS

**i** Scan only when the scanner is in Basic Mode (HID profile).

These barcodes are to configure the scanner for different languages using Microsoft Windows keyboard layout.

## English (Default)



## English UK



## French



## German



## Italian



# HID KEYBOARD LANGUAGE SETTINGS

Japanese



Polish



Spanish



Swedish



ANSI Emulation



ANSI Emulation can be slower on Windows systems.

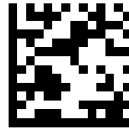
# AUTOMATIC RECONNECTION

## All Bluetooth Connection Modes are OK.

Important! After scanning this command barcode, power off and power on the scanner to make sure it is configured properly.

### Enable Automatic Reconnection from scanner (default)

Configure the scanner to automatically initiate a connection to the last paired computer/device after the scanner is powered on.



### Disable Automatic Reconnection from scanner

Configure the scanner to wait for a computer/device to initiate a Bluetooth connection after the scanner is powered on.



Advanced users only.

## Basic Mode (HID) Keyboard

Changes a scanner in HID-Peripheral mode to HID-Keyboard mode.

For Mac OS, Apple iOS, and other smart devices.



## Basic Mode (HID) Peripheral

Changes a scanner in HID-Keyboard mode to HID-Peripheral mode.

For some MS Windows or Android mobile devices.



Scan only with scanner in Application Mode (SPP).

## Acceptor (default)

Configures the scanner to accept a Bluetooth connection puts the scanner in discoverable mode.



## Initiator

Configures the scanner to initiate a connection to a computer/device with the Bluetooth Device Address specified in the barcode.

The barcode must be formatted in Code 128 and contain the data #FNlaabbccddeeff# such that aabbccddeeff is the Bluetooth Device Address of the computer/device you want to connect to the scanner.

You must create a custom barcode for each computer/device that you want to connect to the scanner.

# DATA MODE-FOR SPP MODE ONLY

Advanced users only.

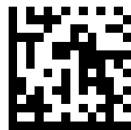
## Packet Mode (default)

Configures the scanner to transmit decoded data in packet format.



## Raw Mode - Android and Windows only

Configures the scanner to transmit decoded data in raw (unpacketed) format.



What is a 1D barcode?

Linear, 1 dimensional barcodes are a row of parallel lines of varying thickness. The information is stored in the widths of the bars and spaces. 1D barcodes are used in retail products.




What is a 2D barcode?


2D barcodes are a pattern of black and white blocks arranged in a square or rectangles. Two dimensional barcodes can hold significant amount of information and are more typically used than 1D barcodes. 2D barcodes are used for manufacturing, warehousing, etc.



 For command barcodes not available in the guide, contact [support@socketmobile.com](mailto:support@socketmobile.com).

 After scanning a command barcode, power off and on the scanner to make sure it's configured.

***Note: Most computer monitors allow scanning the barcodes directly on the screen. When scanning from the screen, be sure to set the document magnification to a level where you can see the barcode clearly, and bars and/or spaces are not merging.***

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

# 1D SYMBOLOGIES



To enable or disable Codabar, scan the appropriate barcode below.

## Enable Codabar



## Disable Codabar (default)



## Set Lengths for Codabar

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Codabar may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths, contact [support@socketmobile.com](mailto:support@socketmobile.com).

- **One Discrete Length** - Select this option to decode only those codes containing a selected length.
- **Two Discrete Lengths** - This option sets the unit to decode only those codes containing two selected lengths.
- **Length Within Range** - Select this option to decode a code within a specified range.

## Codabar Any Length



- **Any Length** - Scan this option to decode Codabar symbols containing any number of characters.

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate barcode below to enable or disable converting Code 39 to Code 32.

*Note: Code 39 must be enabled in order for this parameter to function.*

## Enable Convert Code 39 to Code 32



## Disable Convert Code 39 to Code 32 (default)



Enable this parameter to add the prefix character "A" to all Code 32 barcodes. Convert Code 39 to Code 32 (Italian Pharma Code) must be enabled for this parameter to function.

## Enable Code 32 Prefix



## Disable Code 32 Prefix (default)



To enable or disable Code 39, scan the appropriate barcode below.

## Enable Code 39 (default)



## Disable Code 39

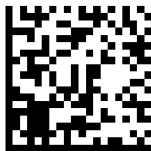


Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. To enable or disable Code 39 Full ASCII, scan the appropriate barcode below.

## Enable Code 39 Full ASCII



## Disable Code 39 Full ASCII (default)



## Set Lengths for Code 39

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 39 may be set for any length, one or two discrete lengths, or lengths within a specific range. If Code 39 Full ASCII is enabled, Length Within a Range or Any Length are the preferred options. To set lengths, contact [support@socketmobile.com](mailto:support@socketmobile.com).

- **One Discrete Length** - This option limits decodes to only those Code 39 symbols containing a selected length.
- **Two Discrete Lengths** - This option limits decodes to only those Code 39 symbols containing either of two selected lengths.
- **Length Within Range** - This option limits decodes to only those Code 39 symbols within a specified range.

## Code 39- Any Length



- **Any Length** - Scan this option to decode Code 39 symbols containing any number of characters.

## Code 39 Check Digit

Scan this symbol to enable/disable the check digit.

## Transmit Code 39 Check Digit



## Do Not Transmit Code 39 Check Digit (default)



To enable or disable Code 93, scan the appropriate barcode below.

## Enable Code 93



## Disable Code 93 (default)



## Set Lengths for Code 93

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 93 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths, contact [support@socketmobile.com](mailto:support@socketmobile.com).

- **One Discrete Length** - Select this option to decode only those codes containing a selected length.
- **Two Discrete Lengths** - Select this option to decode only those codes containing two selected lengths.
- **Length Within Range** - This option sets the unit to decode a code type within a specified range.

## Code 93-Any Length



- **Any Length** - Scan this option to decode Code 93 symbols containing any number of characters.

To enable or disable Code 128, scan the appropriate barcode below.

## Enable Code 128 (default)



## Disable Code 128



# EAN-8

To enable or disable EAN-8, scan the appropriate barcode below.

## Enable EAN-8 (default)



## Disable EAN-8



To enable or disable EAN-13, scan the appropriate barcode below.

## Enable EAN-13 (default)



## Disable EAN-13



To enable or disable GS1 DataBar Limited, scan the appropriate barcode below.

## Enable GS1 DataBar Limited



## Disable GS1 DataBar Limited (default)





To enable or disable Interleaved 2 of 5, scan the appropriate barcode below.

## Enable Interleaved 2 of 5 (default)



## Disable Interleaved 2 of 5



## Set Lengths for Interleaved 2 of 5

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for I 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths, contact [support@socketmobile.com](mailto:support@socketmobile.com).

- **One Discrete Length** - Select this option to decode only those codes containing a selected length.
- **Two Discrete Lengths** - Select this option to decode only those codes containing two selected lengths.
- **Length Within Range** - Select this option to decode only codes within a specified range.

## Interleaved 2 of 5-Any Length



- **Any Length** - Scan this option to decode I 2 of 5 symbols containing any number of characters.

*Note: Selecting this option may lead to misdecodes for I 2 of 5 codes.*

To enable or disable MSI, scan the appropriate barcode below.

### Enable MSI



### Disable MSI (default)



### Set Lengths for MSI

The length of a code refers to the number of characters (i.e., human readable characters) the code contains, and includes check digits. Lengths for MSI can be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths, contact [support@socketmobile.com](mailto:support@socketmobile.com).

- **One Discrete Length** - Select this option to decode only those codes containing a selected length.
- **Two Discrete Lengths** - Select this option to decode only those codes containing two selected lengths.
- **Length Within Range** - Select this option to decode codes within a specified range.

### MSI-Any Length



- **Any Length** - Scan this option to decode MSI symbols containing any number of characters.

## MSI Check Digits

These check digits at the end of the bar code verify the integrity of the data. At least one check digit is always required. Check digits are not automatically transmitted with the data.

### One MSI Check Digit (default)



### Two MSI Check Digit



Scan this symbol to transmit the check digit with the data.

### Transmit MSI Check Digit



Scan this symbol to transmit data without the check digit.

### Do Not Transmit MSI Check Digit (default)



To enable or disable UPC-A, scan the appropriate barcode below.

## Enable UPC-A (default)



## Disable UPC-A



## UPC-A Preamble

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A symbol. Select one of the following options for transmitting UPC-A preamble to the host device: transmit system character only, transmit system character and country code ("0" for USA), or transmit no preamble.

## No Preamble



## System Character (default)



## System Character & Country Code

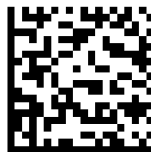


Scan the appropriate barcode below to transmit the symbol with or without the UPC-A check digit.

## Transmit UPC-A Check Digit (default)



## Do Not Transmit UPC-A Check Digit



To enable or disable UPC-E, scan the appropriate barcode below.

## Enable UPC-E (default)



## Disable UPC-E



## UPC-E Preamble

Preamble character (System Character) can be transmitted as part of a UPC-E symbol. Select one of the following options for transmitting UPC-E preamble to the host device: transmit system character or transmit no preamble.

## No Preamble



## System Character (default)



## System Character & Country Code



Scan the appropriate barcode below to transmit the symbol with or without the UPC-E check digit.

## Transmit UPC-E Check Digit (default)



## Do Not Transmit UPC-E Check Digit



To enable or disable UPC-E1, scan the appropriate barcode below.

*Note: UPC-E1 is not a UCC (Uniform Code Council) approved symbology.*

## Enable UPC-E1



## Disable UPC-E1 (default)



## UPC-E1 Preamble

Preamble character (System Character) can be transmitted as part of a UPC-E1 symbol. Select one of the following options for transmitting UPC-E1 preamble to the host device: transmit system character or transmit no preamble.

## No Preamble



## System Character (default)





## System Character & Country Code



## Transmit UPC-E1 Check Digit (default)



## Do Not Transmit UPC-E1 Check Digit



## Convert UPC-E1 to UPC-A

Enable this parameter to convert UPC-E1 (zero suppressed) decoded data to UPC-A format before transmission. After conversion, data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Digit). Scan DO NOT CONVERT UPC-E TO UPC-A to transmit UPC-E1 (zero suppressed) decoded data.

## Convert UPC-E1 to UPC-A



## Do Not Convert UPC-E1 to UPC-A (default)



# DECODE UPC/EAN SUPPLEMENTALS

Supplementals are appended characters (2 or 5) according to specific code format conventions (e.g., UPC A+2, UPC E+2). Several options are available:

- If Decode UPC/EAN with Supplemental characters is selected, the scan engine does not decode UPC/EAN symbols without supplemental characters.
- If Ignore UPC/EAN with Supplemental characters is selected, and the SM1 is presented with a UPC/EAN symbol with a supplemental, the scan engine decodes the UPC/EAN and ignores the supplemental characters.
- Select Enable 978/979 Supplemental Mode to enable the SM1 to identify supplementals for EAN-13 bar codes starting with a '978' or '979' prefix only. All other UPC/EAN bar codes are decoded immediately and the supplemental characters ignored.

*Note: To minimize the risk of invalid data transmission, we recommend selecting whether to read or ignore supplemental characters.*

**Select the desired option by scanning one of the following barcodes.**

## Ignore UPC/EAN With Supplementals (default)



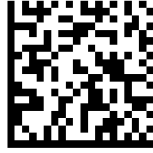
## Decode UPC/EAN With Supplementals



## Autodiscriminate UPC/EAN With Supplementals



Enable 978/979 Supplemental Mode



# 2D SYMBOLOGIES



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

To enable or disable, scan the appropriate bar code.

Enable (default)



#FNB00F508C60408FFF13E010000#

Disable



#FNB00F508C60408FFF13E000000#

## DATA MATRIX

Enable (default)



#FNB00F508C60408FFF024010000#

Disable



#FNB00F508C60408FFF024000000#

## HAN XIN

Enable



#FNB00F509C60408FFF8048F010000#

Disable



#FNB00F509C60408FFF8048F000000#

Enable (default)



#FNB00F507C60408FFE3010000#

Disable



#FNB00F507C60408FFE3000000#

## PDF417

Enable (default)



#FNB00F507C60408FF0F010000#

Disable



#FNB00F507C60408FF0F000000#

## MICRO QR CODE

Enable (default)



#FNB00F508C60408FFF13D010000#

Disable



#FNB00F508C60408FFF13D000000#

## QR CODE

Enable (default)



#FNB00F508C60408FFF025010000#

Disable



#FNB00F508C60408FFF025000000#

# SAMPLE BARCODES

For testing only.

**Aztec**



**Codabar**



A2030405060B

**Code 39**



ABC-1234

**Code 93**



ABC-1234-/+

**Code 128**



ABC-abc-1234

**Data Matrix**



**EAN 8/JAN**



9031 1017

**EAN 13/JAN**



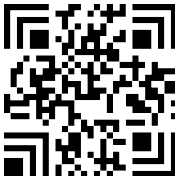
9 780201 379624

**GS1 Databar**



(01)01234567890128

**Han Xin**



**Interleaved 2 of 5**



1234567890

**Matrix 2 of 5**



0 1 2 3 4 5 6 7

**MaxiCode**



**MicroPDF417**

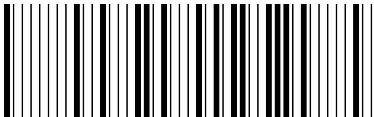


**Micro QR Code**



# SAMPLE BARCODES

MSI

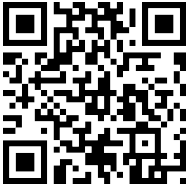


012345674

PDF 417



QR Code



UPC-A



7 25272 73070 6

UPC-E



0 123456 5



# ENVIRONMENTALLY FRIENDLY

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Socket Mobile is a responsible global citizen that works actively to mitigate global climate change and to minimize our products' long-term impact on the environment. These principles inform our decisions and are reflected in our actions. Our shipping boxes are uncolored and free of dying chemicals to make them recyclable. We do not include USB power charging adaptors with purchases because most customers already have more than enough. Our Companion application has a mechanism for customers to return unwanted or defective products. We recycle these products by repairing and reselling them through our Recycling Products Program or sending them to environmentally responsible recycling organizations. We communicate regularly with these organizations to improve our products' recyclability. In the office, we have eliminated paper coffee cups and instead provide each individual their own coffee cup for daily use. The city of Newark, CA has recognized Socket Mobile for minimizing office landfill waste.

Simple changes like these can make a lasting difference. To suggest other improvements so we have a planet worth passing to the next generation email [environment@socketmobile.com](mailto:environment@socketmobile.com)

[Learn more](#) about our environmental practices.