

Z-3250/Z3251

User's Manual

Handy Wireless Scanner



Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
Preliminary	2014/01/22	Initial release

Important Notice

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for any particular purpose. We are not liable for any errors contained herein nor for incidental or consequential damages in connection with furnishing, performance or use of this material. We shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the instructions and warnings, or misuse or alteration or repair of the products without written approval. No part of this document may be reproduced, transmitted, stored in a retrieval system, transcribed, or translated into any human or computer or other language in any form or by any means electronic, mechanical, magnetic, optical, chemical, biological, manual or otherwise, except for brief passages which may be quoted for purposes of scholastic or literary review, without express written consent and authorization. We reserve the right to make changes in product design without reservation and without notification. The material in this guide is for information only and is subject to change without notice. All trademarks mentioned herein, registered or otherwise, are the properties of their various, ill, assorted owners.

General Handling Precautions

- Do not dispose the scanner in fire.
- Do not put the scanner directly in the sun or by any heat source.
- Do not use or store the scanner in a very humid place.
- Do not drop the scanner or allow it to collide violently with other objects.
- Do not take the scanner apart without authorization

Guidance for Printing

This manual is in A5 size. Please double check your printer setting before printing it out. When the barcodes are to be printed out for programming, the use of a high-resolution laser printer is strongly suggested for the best scan result.

Radio Notice

This equipment generates uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

Radio and Television Interference

Operation of this equipment in a residential area can cause interference to radio or television reception. This can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the device with respect to the receiver.
- Move the device away from the receiver.
- Plug the device into a different outlet so that the device and the receiver are on different branch circuits.

If necessary the user may consult the manufacturer, and authorized dealer, or experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402 U.S.A., Stock No. 004000003454.

Laser Safety

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of FCC Rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

Radiant Energy: The laser scanner uses one low-power visible laser diodes operating at 650nm in an opto-mechanical scanner resulting in less than 3.9 μ W radiated power as observed through a 7mm aperture and averaged over 10 seconds.

Do not attempt to remove the protective housing of the scanner, as unscanned laser light with a peak output up to 0.8mW would be accessible inside.

Laser Light Viewing: The scan window is the only aperture through which laser light may be observed from this product. A failure of the scanner engine, while the laser diode continues to emit a laser beam, may cause emission levels to exceed those for safe operation. The scanner has safeguards to prevent this occurrence. If, however, a stationary laser beam is emitted, the failing scanner should be disconnected from its power source immediately.

Adjustments: Do not attempt any adjustments or alteration of this product. Do not remove the protective housing of the scanner. There are no user-serviceable parts inside.

Optical: The use of optical instruments with this product will increase the eye hazard. Optical instruments include binoculars, magnifying glasses, and microscopes but do not include normal eye glasses worn by the user.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

For CE-Countries

This scanner is in conformity with CE standards. Please note that an approved, CE-marked power supply unit should be used in order to maintain CE conformance.

Power Supply

- Use only the type of battery and the charging equipments that came with your scanner.
- Using any other type of battery and charging equipment may damage the scanner and invalidate the warranty.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.
- Remove the battery if the scanner is not going to be used for a long time. If the battery is left unused for more than 3 months, you need to charge the battery before use.

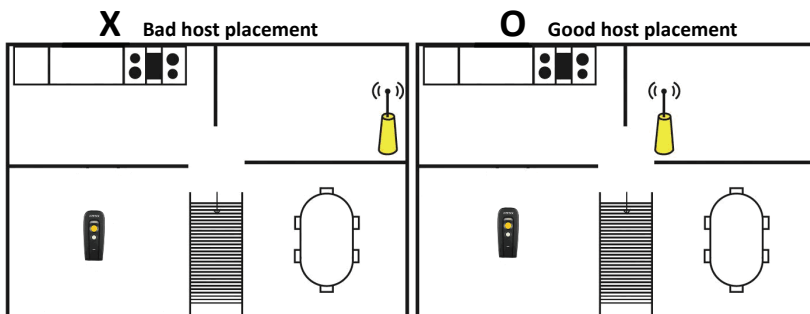
Wireless Communication

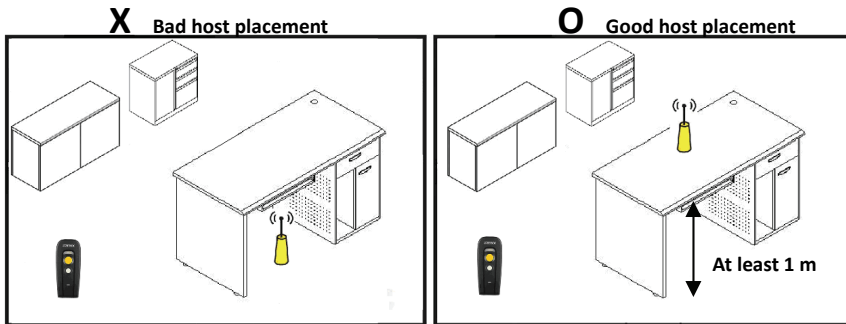
- Wireless technology operates 100M / 75M with communication dongle. Maximum communication range may vary depending on obstacles (person, metal, wall, etc.) or electromagnetic environment.
- The following conditions may affect the sensitivity of wireless communication.
 - There is an obstacle such as a person, metal, or wall between this unit and wireless device.
 - A device using 2.4 GHz frequency, such as a wireless LAN device, cordless telephone, or microwave oven, is in use near this unit.
- Because wireless devices and wireless LAN (IEEE802.11b/g) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid connection if this unit is used near a wireless LAN device. In such a case, perform the following.
 - Use this unit at least 10 m (about 30 ft) away from the wireless LAN device.
 - If this unit is used within 10 m (about 30 ft) of a wireless LAN device, turn off the wireless LAN device.
 - Install this unit and wireless device as near to each other as possible.
- Microwaves emitting from a wireless device may affect the operation of electronic medical devices. Turn off this unit and other wireless devices in the following locations, as it may cause an accident.
 - Where inflammable gas is present, in a hospital, train, airplane, or a petrol station
 - Near automatic doors or a fire alarm
- This unit supports security capabilities that comply with the wireless standard to provide a secure connection when the wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using wireless technology.
- We do not take any responsibility for the leakage of information during wireless communication.
- Connection with all wireless devices cannot be guaranteed.
 - A device featuring wireless function is required to conform to the wireless standard specified by wireless SIG, and be authenticated.
 - Even if the connected device conforms to the above mentioned wireless standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
- Depending on the device to be connected, it may require some time to start communication.

Tips to help improve your wireless network

1. Position the access point (host/dongle) in a relatively empty space at central location.

When possible, place the access point in a central location on the high ground (1m or above). If your access point is against an outside wall, the signal will be weak on the other side of the room.





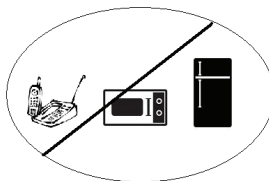
2. Move the access point (host/dongle) off the floor and away from walls and metal objects (such as metal file cabinets). Metal objects, walls, and floors will interfere with your wireless signals. The closer your access point is to these obstructions, the more severe the interference, and the weaker your connection will be.

3. Reduce wireless interference.

The most common wireless technology, 802.11g (wireless-G), operates at a frequency of 2.4 gigahertz (GHz). Many cordless phones, microwave ovens, hospital equipments, refrigerator, LED, and other wireless electronics also use this frequency. If you use these wireless devices in your office, your device might not be able to "hear" the signals over the noise coming from them.

If your network uses wireless-G, you can quiet the noise by avoiding wireless electronics that use the 2.4 GHz frequency. Instead, look for cordless phones and other devices that use the 5.8 GHz or 900 megahertz (MHz) frequencies. Because 802.11n (wireless-N) operates at both 2.4 GHz and the less frequently used 5.0 GHz frequency, you may experience less interference on your network if you use this technology.

Avoid possible wireless interference



4. Update the firmware or driver of your wireless dongle.

If you are using a wireless dongle or other similar devices to make the connection, getting the latest firmware or driver updates may improve the performance. Visit your manufacturer's website for the updates.

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Introduction

Designed for optimal reading performance, the compact Z-325xBT offers wide scanning range and wireless communication technology for easy handling of any applications. Z-325xBT includes a 32-bit CPU and excellent scan engine in a small yet powerful unit delivering intuitive and rapid scanning regardless of environment.

Key Features:

- Compact, light weight, and portable
- Compatible with iOS devices such as iPad/iPhone
- 32-bit microprocessor



Scanner and Accessories

The scanner package contains:

Wireless scanner with battery



Dongle



Micro USB cable



5V USB Power adapter



Quick Guide



If any contents are damaged or missing, please contact your dealer immediately.

Battery Installation

Installing Batteries

Please follow the steps below to install the batteries.



Always use the rechargeable batteries provided by the manufacturer to avoid any non-compatible danger or void the warranty.

1. Move the lock for the battery compartment to the unlock position and remove the back cover.



2. Align the metal contact on the battery with the metal contact inside the battery compartment and insert the battery.



3. Place the back cover back on the scanner and move the lock to the lock position.



Charging the Battery

To charge the battery using the USB cable:

There are two method to charge scanner via USB cable.

- Host USB Power
 - Power adaptor
1. Connect the micro USB connector directly to the scanner.
 2. Connect the other end of the USB connector to the host to begin charging. You can also connect the USB cable to an outlet using the power adapter to charge the battery.
 3. The battery begins charging when the scanner LED indicator starts flashing green. LED turns steady green when charging is complete.



- The scanner will power on automatically when charging.
- Batteries shipped may not be full charged and should be fully charged for maximum charge capacity.
- *Recommended* charging environment is temperature in 0°C~35°C (32°F~95°F).

Power on the Scanner

1. Ensure the battery is fully charged. Please refer to the previous section to charge the battery.
2. Press and hold the power button for 1 second until a long beep sound is heard to turn on the scanner.
3. To power off the scanner press and hold the function / off button for 3 second until 2 short beeps are heard.



Power on



Power off

Function Button

The function button can be used as the power off key or to call or hide virtual keyboard when the scanner is connected with iPad, iPhone or other devices (not including Android devices).



Press function button to call or hide the keyboard

How to Scan

There are two ways to scan with this device.

- Handheld scanning
- Presentation scanning

Handheld scanning

1. Power on the scanner.
2. Press the scan trigger and aim at the barcode.
3. When decoding is successful, the scanner beeps and the LED indicates blue.

Presentation Scanning

1. Set the scanner for presentation scanning mode.
2. Move the barcode label approach the scanner scanning zone.
3. When decoding is successful, the scanner beeps and the LED indicates blue.



Radio Communication Host Type

This scanner support three radio communication types:

- Dongle mode
- SPP master/slave mode
- HID mode

Dongle Host Mode

The scanner communicates with the host through the dongle. One dongle can be used to connect multiple scanners.

Typically, scanner and dongle in the same delivery box are paired in factory. As soon as both are powered on, they should find and connect to each other immediately.

However, under special circumstance that the scanner and the dongle are not paired with the dongle, please follow instructions in later chapters to pair the dongle.



SPP Master/SPP Slave Mode

The scanner can communicate with the host through wireless connection.

Please see [Wireless Mode](#) for detail operation information.



HID Mode

The scanner communicates with the smart phone through HID connection.

Please see [HID mode](#) for detail operation information



Scanner USB online to Host

The scanner provides other ways for you to connect to the host. When the radio communication is not available, the scanner can be connected to transmit data via USB Online mode. Please see [USB Online Mode](#) for detail operation information.

USB Online Mode

The scanner connects directly to a USB host to recharge and transmit data.



Visible Indicators





Scanner LED

Please see the following for the operational indication of the scanner.

	LED Status	Indication
	Blue flashing	Waiting for radio connection (flash time 0.5s : 0.5s).
	Blue fast flashing	Radio connecting.
	Blue slow flashing	Device connected (flash time 0.03s : 3s).
	Blue flash once	A barcode was decoded successfully
	Blue fast flashing	Data transmission
	Green flashing	Charging mode
	Steady green	Battery fully charged
	Steady red	Programming mode
	Red flashing slow (with continuous beep sound)	Low battery warning
	Red flash twice (with 2 beep sound)	Very low battery warning

Dongle LED

Please see the following for the operational indication of the scanner.

LED Status		Indication
	Blue flashing	Dongle is detected by the host, communication not yet established
	Steady blue	Dongle is connected to the host
	Blue flash once	Data transmission
	Steady red	Dongle is plugged into the host but not detected by the host or dongle is in the update mode

Sound Indicators

When the scanner is in operation, it provides audible feedback. The beeps indicate the status of the scanner.

Beep	Indication
A long beep	Power on scanner.
One beep	A barcode has been successfully decoded and data is either transfer to the host or saved in the memory.
1 high - low - high beeps	Scan dongle pair barcode.
Four short medium beeps	Data communication failed or out of range.
Intermission medium-low beeps	Low battery warning.
1 short medium – low beeps	Scanner is power down.
1 long high – medium beeps	Enter programming mode.
1 long medium - medium beeps	Exit Programming mode.

ACK/NAK Protocol or Frame Packing

When scanner is in SPP Master/Slave mode, and add in the data protocol or packing could confirm the data reliability. Refer to below for different setting options:

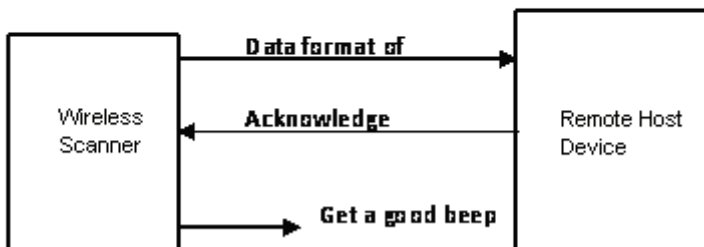
a) No ACK/NAK protocol



b) ACK/NAK only



c) Frame packing:



Scanner to Remote Application

Data Format of Packet

To send a data (barcode) to the remote application, the scanner has to encapsulate it:

EAH (Header)	Size of payload	FEH (Format Byte)	Data ID	Data	Barcode Type	AEH (End of Byte)	Reserved Byte
1 byte	1 byte	1 byte	1 byte	Varies	1 byte	1 byte	1 byte

Title	Definition
Header Character (EAH)	The character ID at the head of every data. It has to start with EAH.
Size of Payload	The encapsulated data length excluding header character.
Format Byte (FEH)	Differentiate data format; barcode data is always FEH.
Data ID	The number of each data. If receive the same ID more than once, only the first one is valid, delete the rest.
Barcode Type (1 byte)	Please refer to the Barcode Type Table .
Data	Decoded barcode data.
End of Byte (AEH)	Record data ends.
Reserved Byte	Reserved for future use.

Example:

If Code39 barcode data is "ABCD", then sender sends out:

EAH + 0AH + FEH + ID + "ABCD " + 11H+AEH + Reserved Byte

$$0AH = 1+1+1+4+1+1+1$$

Acknowledge packet

55H (Header)	Data ID	55H (end of byte)
1 byte	1 byte	1 byte

Example:

If scanner sends out:

EAH , 0AH , FEH , 01H , "ABCD " , 011H, AEH , EEH

Remote acknowledges: 55H +01H + 55H

Barcode Type Table

Code	Value
Code39	0x11
Codabar	0x01
Code128	0x03
Interleaved 2/5	0x02
Code93	0x06
UPC-E	0x14
UPC-A	0x24
EAN-8	0x34
EAN-13	0x44
Chinese Post Code	0x05
MSI	0x07

Firmware Update

To update the firmware, scan the Start of Configuration barcode then scan Dongle USB Update or Scanner USB Update to enter Firmware Update mode. To exit Firmware Update mode without updating, please remove and re-insert the battery.



Start Of Configuration



Dongle USB Update

Update firmware using dongle
(Dongle Host mode only)



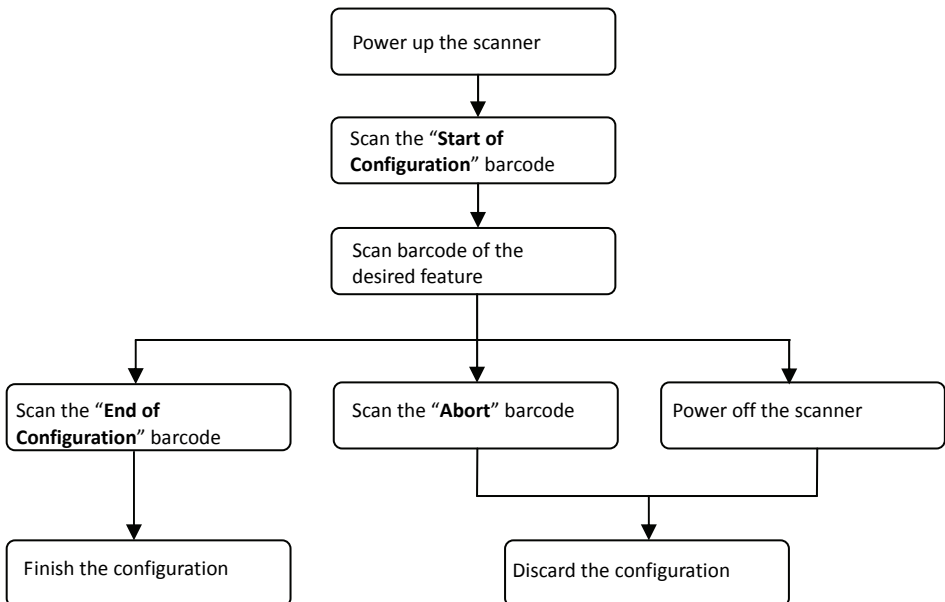
Scanner USB Update

Update firmware using USB connection

Programming Guide

Program Procedure Using Barcode Manual

1. Power up the scanner.
2. Scan the Start of Configuration barcode.
3. Scan the barcode for the desired feature. Multiple features can be enabled/disabled before scanning the End of Configuration barcode.
4. Scan the End of Configuration barcode and save the new configuration. Power off and on the scanner when the setting is done.
5. To give up a configuration change, power off the scanner before scanning the End of Configuration barcode or scan the Abort barcode.
6. For some parameter setting, such as barcode length and identifier code, it is required to scan the Set barcode to save the configuration.



Default Parameters

The factory default setting table gives the default settings of all the programmable parameters. The default settings will be restored whenever the "Reset" programming label is scanned and the scanner is in programming mode. Default values are highlighted in grey background in the settings.

Factory Default Setting

Parameter	Default
Radio communication	
Wireless host	Dongle
Pairing mode	Unlocked
Data transmit	Normal
Radio protocol timeout	5 seconds
Power off timeout	20 minutes
Encryption	Enable
Dongle Host	
RS-232 communication	
Terminator	<CR><LF>
USB Communication	
Terminator	Enter
Code mode	Scan code
Keyboard	US keyboard
Pair contact on dongle	Enable
Scanner	
Decoder Selection	Default
EAN/UPC	Enable
CODE 39	Enable
Code 32	Disable
CODABAR	Enable
ITF 2 OF 5	Enable
MSI	Disable
Chinese post code	Disable
Code 93	Enable
Code 128	Enable
EAN-128	Disable
Telepen	Disable
Code 11	Disable

Standard 2 of 5	Disable
Industrial 2 of 5	Disable
GS1 DataBar	Disable
Beeper Sound	Default
Frequency	Medium
Duration	Medium
Operating Parameter	Default
Scan mode	Trigger mode
Stand mode	Enable
Header and trailer	None
Inter-message delay	None
Inter-character delay	None
Code Identifiers	Default
Identifier code as ZEBEX standard	Disable
Identifier code as AIM standard	Disable
Code 39 identifier code	M
ITF 2 of 5 identifier code	I
Chinese post code identifier code	H
UPC-A identifier code	A
UPC-E identifier code	E
EAN-13 identifier code	F
EAN-8 identifier code	FF
Codabar identifier code	N
Code 128 identifier code	K
Code 93 identifier code	L
MSI identifier code	P
Code 11 identifier code	O
Standard 2 of 5 identifier code	S
Industrial 2 of 5 identifier code	D
GS1 DataBar identifier code	RS
GS1 DataBar Limited identifier code	RL
GS1 DataBar Expanded identifier code	RX

Default Data Transmit Format

Code	Message format
EAN-13	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13
EAN-8	D1 D2 D3 D4 D5 D6 D7 D8
UPCA	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
UPCE	D1 D2 D3 D4 D5 D6 D7 D8
CODE128	D1-Dx (default 3~62)
EAN128	C1 D1-Dx (default 3~62)
CODE39	D1-Dx (default 3~62)
CODABAR	D1-Dx (default 6~32)
INTERLEAVED 2/5	D1-Dx (default 6~32)
CHINESE POST CODE	D1-Dx (default 8~32)
CODE93	D1-Dx (default 3~32)
MSI	D1-Dx (default 6~32)

Connecting to a Host

The scanner provides several data transmit methods to communicate with the host. User may select the method according to their preferences. Read this section to learn the setups for connecting to different hosts.



Start Of Configuration

USB Online Mode

The scanner connects directly to a USB host to recharge and transmit data. You may enable or disable the functions using the following settings.

Disable USB communication



USB online scan disable

Disable USB communication.

Enable USB communication



USB online scan enable

Wireless connection as the primary communication option to the host. USB connection is only used when wireless is disconnected.

Set USB as the primary connection



USB online scan, Ignore radio communication

USB connection as the primary communication option to the host when it is available. Wireless mode is set as the secondary option.



End Of Configuration



Dongle Host Mode

The scanner communicates with the host through the dongle. Typically, scanner and dongle in the same delivery box are paired and corresponded to host interface in factory. To check if the scanner is paired to the dongle, check the scanner LED group1 for slow blue flash and check the top dongle LED for steady blue light. If LED group1 of scanner and top LED of dongle are both flashing blue, follow the steps below to radio connect the scanner and dongle.

Dongle Host Pairing

1. Please make sure the scanner LED is flashing blue indicating it's not linked to any host. If the LED shows steady blue, the scanner is already paired to another scanner so you must unpair the scanner before continuing.
2. Power on the scanner and enable dongle host mode if necessary.



Enable dongle mode with this setting

Dongle Host mode enable

3. Use the scanner to scan the pairing barcode at the bottom of the dongle to begin pairing. 3 short beeps will be heard.
4. The LED indicator on the scanner will flash blue rapidly indicating search mode in process. The LED on the dongle becomes steady blue when the pairing is successful.
5. Scan the corresponding host interface the dongle is using to begin using the scanner.



Return to USB default

Return to dongle USB communication.
(Communication dongle link required)



Return to Virtual COM
Port default

Return to Virtual COM Port setting





Wireless Mode

The scanner connects to the host via wireless connection. You may select SPP Master or SPP Slave for PC connection or select HID mode and Smart phone mode for smart phone connection.

SPP Slave Mode

In this mode, the scanner connects to the host /PC via wireless connection and performs like there's a serial connection. In SPP Slave mode, the scanner is discoverable from a remote device and it can request the scanner for connection. There are several ways to connect the wireless scanner to your PC. If you have your own applications please check their User's Manuals for pairing instructions.

To connect a wireless device to Window based system for the first time:

1. Turn on the host computer and activate its wireless connection.
2. Select "Add Bluetooth device". Or open the dialog Bluetooth devices and click "Add".
3. Power on the scanner and program it with "SPP Slave mode" label.



Scanner SPP Slave enable

Enable wireless SPP Slave mode.

4. On Devices tab, click Add. This will open the Add Bluetooth Device Wizard.
5. Select the "My device is set up and ready to be found" checkbox, and then click Next.
6. The scanner should be on the list of discoverable devices. The default name of the scanner is "Z-325X BT". Select "Z-325X BT" and click "Next".
7. Select "Let me choose my own passkey" and enter the pin code. The default pin code is "12345678".
8. Click "Next" to connect the scanner to the host. A short beep should be heard upon connection.





Start Of Configuration

SPP Master Mode

In this mode, the scanner connects to the host /PC via wireless connection and performs like there's a serial connection. In master mode, the scanner initiates the connection to the remote device.

1. Power on of the remote device and have its address ready in hand and make it discoverable.

2. Program the scanner with the "SPP Master enable" barcode.



Enable SPP Master mode.

Scanner SPP Master enable

3. Scan "Set device address" to set the address.



Set device address for SPP Master connection.

Set device address
(SPP Master only)

4. Use the ASCII table in Programming Guide to input the 12 digit device address. For example: if the address is "011B1345600", scan "0", "0", "1", "1", "B", "1", "3", "4", "5", "6", "0", "0" from ASCII barcode labels.

5. Scan "Confirm Setting" to store the address.



Confirm Setting (for address and pin code setting required)

6. Setup and input the pin code if necessary. Please see [Setting Pin Code](#) section for more details.

7. Scan "Required Pair with slave (SPP Master)" to begin pairing.



Required Pair with slave (SPP Master)



In SPP Master mode, you can scan the device address label on the Quick Guide instead of using the ASCII table to scan in the address.



End Of Configuration



Start Of Configuration

HID mode

In HID mode, the scanner connects to the host /PC via wireless connection and performs like there's a keyboard connection. The scanner initiates the connection to the remote device.

1. Power on the scanner and program it with "HID Mode". To connect a smart mobile phone (for example, iPhone, Android), the Smart phone mode must also be enabled. Power off the scanner when the setting is done.



HID mode

Enable wireless HID keyboard emulation



Smart phone mode

For smart phone mode (HID MODE must also be enabled).

2. Enable wireless connection on your host and follow the instructions in your host to set it to discover other wireless devices in its surrounding.
3. The scanner should be on the list of discoverable devices. The default name of the scanner is "Z-325X BT". You will be prompt to enter pairing pin code. Select "Z-325X BT" and input the pin code that appears on your mobile device to connect scanner to the phone.
4. Scan the Enter barcode to confirm. A short beep should be heard upon connection.



Enter
Full ASCII ---CR
Function key-----"Enetr(num.)"



End Of Configuration



Start Of Configuration

Setting Pin Code

1. To change the pin code, use the “Set pin code” setting. Default is “12345678”.
2. Use the ASCII table in Programming Guide to input the new code (must be at least 4 digits and not more than 8 numeric digits).
3. Scan “Save Setting” to store the pin code.



Set pin code

Set pin code (SPP Master only)



Confirm Setting (for address and pin code setting required)



Please check the User's Manual from your PC for device address and pin code.

Deleting pin code

To delete pin code, use the “Delete pin code setting”.



Delete pin code

Delete the stored pin code.

Reset Name

To change the scanner name back to the default name “Z-325x BT” use the “Default device name” setting.



Default device name

Change device name back to default “Z-325x BT”.



End Of Configuration



Start Of Configuration

Setting Name

1. To change the name displayed when the scanner is discovered, scan the “Friendly device name set” label. Default name is “Z-325X BT”.
2. Use the ASCII table in Programming Guide to input the name (Max.12 digits).
3. Scan “Confirm Setting” to store the new name.



Friendly device name set

Change the display name when scanner is discovered.



Confirm Setting (for address and pin code setting required)

Wireless Discovery

Use the following settings to show or hide the device from wireless discovery.



Discover enable

Make scanner visible to wireless device.



Discover disable

Make scanner invisible to wireless device.



End Of Configuration

Start Of Configuration

Data Transmit Method

The data transfer method includes three types: Normal (default), Out-of-Range Mode, and Batch Mode. Users may modify this setting according to their preferences.

Normal

When the scanner is within the connection range, the scanned data will be transferred to the host computer immediately. If the scanner is out of its connecting range, the scanner does not send or store any data.



Data transmit normal

Batch mode is disabled.

Out of Range

Scanned data are stored when scanner is out of its wireless communication range. When scanner is back into its communication range or re-connected, the stored data are sent when scanning next barcode label.

Out of range buffer
enable

Enable out of range mode.



End Of Configuration



Start Of Configuration

Batch Mode

Whether within the connection range or not, in batch mode, the scanner stores all scanned data that will be transferred to the host computer after scanning "Send Batch Data" label.

Number of storable bar codes = 61,365 bytes of memory / (number of characters in the bar code +2)



Batch mode

Note: Scanner LED indicator will not flash while waiting for connection in this mode.

Clearing Batch

Use the settings in this section to clear the stored data.



Clear batch data after
send

Saved data are cleared after they are transferred to the host.



Clear batch data by
scanning "Delete batch
data" label

Scan this label then scan "Save Setting" to delete the stored batch data.



Delete batch data

Same as previous setting but with alert sound.



Confirm Setting (for address and pin code setting required)



End Of Configuration



Start Of Configuration

Batch Transfer

Use the settings in this section to setup batch transfer.



Send Batch Data By
Scanning Label

Scanning this label automatically exits you from the Programming Mode. Press and hold the trigger for over 1 second to send the data.



Send Batch Data on line
USB cable contact

Data is ready to be transferred upon USB connection. Press and hold the trigger for over 1 second to send the data.

Batch Mode Sounds Settings

Use the settings in this section to setup the sound.



Out of range resend data
with beeper sound

Add beeper sound when resending data in Out of range mode.



Out of range resend data
without beeper sound in
Out of range mode.

No beeper sound when resending data



Send Batch Data without
beep

No beep when sending data. Good-read LED will light up until the transfer is done.



Send Batch Data with Beep

Beep sound when sending data. Good-read LED will light up until the transfer is done.



End Of Configuration

System Function Settings

Default values are highlighted in grey background.



Start Of Configuration

Barcode Value

Description



Return scanner to factory defaults



Return dongle host to factory defaults



Return to USB default
(Communication dongle link required)



Return as USB-virtual COM port default
(Communication dongle link required)



Return as OPOS port default



Function Button Enable
Enable the function/off button



Function Button Disable
Disable the function/off button



End Of Configuration



Start Of Configuration

Barcode Value

Description



Display firmware version



Abort
(exit programming mode without any updates)

Scan Mode



Trigger mode
The scanner becomes inactive as soon as the data is transmitted. It must be triggered to become active again.



Auto scan mode
The scanner is still active after the data is transmitted but the successive transmission of the same barcode is not allowed when the trigger switch is pressed again.



Alternate mode
The scanner illumination alternates between on and off when the trigger switch is pressed.



Presentation mode
Also called auto trigger mode. The scanner is inactive but will automatically detect barcodes presented in the scan zone and become active.



Idle mode enable



Idle mode disable
Disable Idle mode.



End Of Configuration



Start Of Configuration

Radio Communication Setting



Dongle Host mode

Dongle Host mode enable
Enable dongle mode with this setup.



Unlock pairing mode

In this mode, the scanner can pair with another dongle when disconnected.



Lock pairing mode.

In this mode, the scanner can not pair with another dongle.



Undo pairing

Undo the pairing between the dongle and the scanner.



USB Online mode

USB online scan disable



USB online scan enable



USB online scan, Ignore radio communication



End Of Configuration



Start Of Configuration

HID mode



HID mode (Combo keyboard)



For Apple mode

SPP Master/Slave mode



Scanner SPP Master enable



SPP Master (Connect wireless address
"BxxxxxxxxxxxT" in CODE39 format)



Scanner SPP Slave enable



Setting wireless address (SPP Master only)



Set PIN code (SPP Master only)

Device Setting



Show device address after friendly name enabled



Enable showing device address xx:xx:xx after device name during discovery

Show device address after device friendly name disabled

Disable showing device address xx:xx:xx after device name during discovery



End Of Configuration



Start Of Configuration



Default Device name



Friendly device name set



Delete pin code



Confirm Setting (for address, device name, and pin code setting required)



Required Pair with slave (SPP Master)



Discover enable



Discover disable



Encryption enable



Encryption disable



Data communication without protocol



Data communication with ACK/NAK protocol



Data communication with Packing protocol



End Of Configuration



Start Of Configuration



Data Transmit Mode

Data transmit normal



Out of range buffer enable



Batch mode



Send Batch Data By Scanning Label



Clear batch data after send



Clear batch data by scanning "Delete batch data" label



Delete batch data



Send Batch Data on line USB cable contact.



Send Batch data on dongle



Out of range resend data with beeper sound



Out of range resend data without beeper sound



Send Batch Data without Beep



Send Batch Data with Beep



End Of Configuration



Start Of Configuration

Radio protocol communication parameter



Radio protocol timeout= 3 sec



Radio protocol timeout= 5 sec



Radio protocol timeout =8 sec



Radio protocol timeout= 10 sec



Radio protocol timeout =13 sec



Radio protocol timeout =16 sec



Radio protocol timeout= 20 sec



End Of Configuration



Start Of Configuration

Power off timeout parameter



Power off timeout=5 min



Power off timeout=10 min



Power off timeout=20 min



Power off timeout=30 min



Power off timeout=1 hr



Power Off timeout : 2 hr



Power Off timeout : 4 hr



Power Off timeout : 6 hr



Power Off timeout : 8 hr



End Of Configuration

Start Of Configuration



Power Always On



Power off by scanning this label



Link beeper enable



Link beeper disable



Power-up beeper enable



Power-up beeper disable

Same Code Delay



50 msec



100 msec



200 msec



300 msec



End Of Configuration



Start Of Configuration



400 msec



500 msec



600 msec



700 msec



800 msec



1000 msec



Infinite



End Of Configuration



Start Of Configuration

Operation Function Setting



Good Read Beeper Tone Selection
Medium beeper tone



High beeper tone



Low beeper tone



Speaker disable



End Of Configuration



Start Of Configuration

Beeper duration Selection



Long



Medium



Short



Ultra Short



Ultra Long



End Of Configuration

Start Of Configuration



Inter Character Delay
0 ms



2 ms



5 ms



10 ms



20 ms



50 ms



Inter Message Delay
0 ms



100 ms



500 ms



1000 ms



End Of Configuration



Start Of Configuration

Interface Settings

RS-232C Interface Setting



Start Of Configuration



Message Terminator

RS-232 message terminator—none



RS-232 message terminator—CR/LF



RS-232 message terminator—CR



RS-232 message terminator—LF



RS-232 message terminator—H tab



RS-232 message terminator—STX/ETX



RS-232 message terminator—EOT



End Of Configuration



Start Of Configuration

USB Interface Setting

USB Setting



International Keyboard mode (ALT method)



Keyboard language support---USA



Keyboard language support---UK send scan code



Keyboard language support---GERMANY



Keyboard language support---FRENCH send scan code



Keyboard language support---SPANISH send scan code



Keyboard language support---ITALIAN send scan code



Keyboard language support---Switzerland send scan code



Keyboard language support---Belgium send scan code



Keyboard language support---Japanese



Capital lock on



Capital lock off



Function key emulation enable



Function key emulation disable



Send number as normal data



Send number as keypad data



End Of Configuration



Start Of Configuration



Message Terminator

Keyboard terminator---none



Keyboard terminator---Enter



Keyboard terminator---H-TAB



End Of Configuration



Start Of Configuration

Smart Phone Software Keypad Control Setting

Smart Phone Software Keypad Control



Multi-media keyboard mode

- This option enables Multi-media keyboard mode



Software keypad enable/disable

- This option enable or disable Software keypad

To enable/disable Software keyboard:

1. Scan the Start Of Configuration barcode.
2. Scan the Multi-media keyboard mode barcode.
3. Scan the End Of Configuration barcode.
4. Connect the scanner with a smart phone. Please see [HID mode](#) for instructions.
5. With Multi-media keyboard mode enabled and smart phone connection made, you may scan the Software keypad enable/disable barcode to enable or disable the Software keypad.



End Of Configuration



Start Of Configuration

The Symbologies

Codabar Parameter Setting

Barcode Value	Barcode Label	Description
RC02		Codabar enable
RD02		Codabar disable
CB05		Codabar start/stop character transmission — none
CB06		Codabar start/stop character transmission — A,B,C,D
CB07		Codabar start/stop character transmission — DC1~DC4
CB08		Codabar start/stop character transmission — a,t,b/n,c/*,d/e
CB09		Codabar maximum length setting
CB10		Codabar minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---



End Of Configuration

Start Of Configuration

Barcode Value	Barcode Label	Description
CB13		No check character
CB14		Validate modulo 16, but don't transmit
CB15		Validate modulo 16 and transmit
DC50		Codabar data redundant check=off
DC51		Codabar data redundant check=1
DC52		Codabar data redundant check=2
DC53		Codabar data redundant check=3



End Of Configuration



Start Of Configuration

Code 39 Parameter Setting

Barcode Value	Barcode Label	Description
RC01		Code 39 enable
RD01		Code 39 disable
RC13		Code 32 enable
RD13		Code 32 disable
DC00		Code 39 data redundant check=off
DC01		Code 39 data redundant check=1
DC02		Code 39 data redundant check=2
DC03		Code 39 data redundant check=3
3901		Standard code 39
3902		Full ASCII code 39
3903		Code 39 start/stop character transmission
3904		Code 39 start/stop character without transmission



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
3905		Code 39 check digit calculate and transmit
3906		Code 39 check digit calculate but without transmit
3907		No check character
3908		Code 39 maximum length setting
3909		Code 39 minimum length setting

SET



Confirm to save this setting (required for reading full ASCII table and length setting)

3912		Code 32 (Italian pharmacy) transmit "A" character
3913		Code 32 (Italian pharmacy) without transmit "A" character



End Of Configuration



Start Of Configuration

Code 93 Parameter Setting

Barcode Value	Barcode Label	Description
RC08		Code 93 enable
RD08		Code 93 disable
DC30		Code 93 data redundant check=off
DC31		Code 93 data redundant check=1
DC32		Code 93 data redundant check=2
DC33		Code 93 data redundant check=3
9301		Code 93 maximum length setting
9302		Code 93 minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---

9303		Code 93 check digit calculate but without transmit
9304		Code 93 check digit not calculate and without transmit
9305		Code 93 check digit calculate and transmit



End Of Configuration



Start Of Configuration

Code 128 Parameter Setting

Barcode Value	Barcode Label	Description
RC06		Code 128 enable
RD06		Code 128 disable
RC10		EAN-128 enable
RD10		EAN-128 disable
DC40		Code 128 data redundant check=off
DC41		Code 128 data redundant check=1
DC42		Code 128 data redundant check=2
DC43		Code 128 data redundant check=3
1803		No check character
1804		Calculate but not transmit
1805		Calculate and transmit
1806		Code 128 maximum length setting
1807		Code 128 minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---



End Of Configuration



Start Of Configuration

Chinese Post Code Parameter Setting

Barcode Value	Barcode Label	Description
RC05		Chinese post code enable
RD05		Chinese post code disable
DC60		Chinese post code data redundant check=off
DC61		Chinese post code data redundant check=1
DC62		Chinese post code data redundant check=2
DC63		Chinese post code data redundant check=3
SZ01		Chinese post code maximum length setting
SZ02		Chinese post code minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---



End Of Configuration



Start Of Configuration

MSI/Plessey Parameter Setting

Barcode Value	Barcode Label	Description
RC14		MSI enable
RD14		MSI disable
DC70		MSI data redundant check= off
DC71		MSI data redundant check=1
DC72		MSI data redundant check=2
DC73		MSI data redundant check=3
MS01		MSI/Plessey maximum length setting
MS02		MSI/Plessey minimum length setting
SET		Confirm to save this setting (required for reading full ASCII table and length setting)
MS03		MSI/Plessey double check digit calculate but not transmit
MS04		MSI/Plessey double check digit without calculate and transmit
MS05		MSI/Plessey double check digit calculate but only first digit transmit
MS06		MSI/Plessey double check digit calculate and both transmit
MS07		MSI/Plessey single check digit calculate but without transmit
MS08		MSI/Plessey single check digit calculate and transmit



End Of Configuration



Start Of Configuration

Code 11 Interface Setting

Barcode Value	Barcode Label	Description
RC07		Code 11 enable
RD07		Code 11 disable
1101		Code 11 maximum length setting
1102		Code 11 minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---

1103		Code 11 one check digit verification
1104		Code 11 two check digit verification
1105		Two Check for Code 11 check digit if code length is longer than 10 characters
1106		Disable verification
1107		Code 11 check digit transmitted
1108		Code 11 check digit not transmitted



End Of Configuration



Start Of Configuration

ITF 2 of 5 Parameter Setting

Barcode Value	Barcode Label	Description
RC04		ITF 2 of 5 enable
RD04		ITF 2 of 5 disable
RC09		IATA code enable
RD09		IATA disable
DC80		ITF 25 data redundant check=off
DC81		ITF25 data redundant check=1
DC82		ITF25 data redundant check=2
DC83		ITF25 data redundant check=3
IT03		ITF 2 of 5 no check character
IT04		ITF 2 of 5 check digit calculate and transmit
IT05		ITF 2 of 5 check digit calculate but without transmit



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
IT01		ITF 2 of 5 code maximum length setting
IT02		ITF 2 of 5 code minimum length setting
IT06		ITF 2 of 5 one fixed length setting
IT07		ITF 2 of 5 two fixed length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---

IT08		ITF 2 of 5 length variable
------	--	----------------------------



End Of Configuration



Start Of Configuration

Standard 2 of 5 Parameter Setting

Barcode Value	Barcode Label	Description
RC22		Standard 2 of 5 code enable
RD22		Standard 2 of 5 code disable
D051		Standard 2 of 5 code maximum length setting
D052		Standard 2 of 5 code minimum length setting

SET



Confirm to save this setting (required for reading full ASCII table and length setting)

D053



Standard 2 of 5 code no check character

D054



Standard 2 of 5 code check digit calculate and transmit

D055



Standard 2 of 5 code check digit calculate but without transmit



End Of Configuration



Start Of Configuration

Industrial 2 of 5 Parameter Setting

Barcode Value	Barcode Label	Description
RC21		Industrial 2 of 5 code enable
RD21		Industrial 2 of 5 code disable
D251		Industrial 2 of 5 code maximum length setting
D252		Industrial 2 of 5 code minimum length setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---

D253		Industrial 2 of 5 code no check character
D254		Industrial 2 of 5 code check digit calculate and transmit
D255		Industrial 2 of 5 code check digit calculate but without transmission



End Of Configuration



Start Of Configuration

UPC/EAN/JAN Parameter Setting

Barcode Value	Barcode Label	Description
RC11		EAN convert to ISSN/ISBN enable
RD11		EAN convert to ISSN/ISBN disable
RC03		UPC/EAN/JAN enable
RD03		UPC/EAN/JAN disable
UE01		UPC/EAN/JAN all enable
UE02		EAN-8 or EAN-13 enable
UE03		UPC-A and EAN-13 enable
UE04		UPC-A and UPC-E enable
UE05		UPC-A enable
UE06		UPC-E enable
UE07		EAN-13 enable
UE08		EAN-8 enable
UE09		UPC/EAN Addendum disable



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
UE10		Add on 5 only
UE11		Add on 2 only
UE12		Add on 2 or 5
UE13		Force UPC-E to UPC-A format enable
UE14		Force UPC-E to UPC-A format disable
UE15		Force UPC-A to EAN-13 format enable
UE16		Force UPC-A to EAN-13 format disable
UE44		Force EAN-8 to EAN-13 format enable
UE45		Force EAN-8 to EAN-13 format disable
UE17		Transmit UPC-A check digit enable
UE18		Transmit UPC-A check digit disable
UE19		Transmit UPC-E leading character enable
UE20		Transmit UPC-E leading character disable
UE21		Transmit UPC-E check digit enable
UE22		Transmit UPC-E check digit disable



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
UE23		Transmit EAN-8 check digit enable
UE24		Transmit EAN-8 check digit disable
UE25		Transmit EAN-13 check digit enable
UE26		Transmit EAN-13 check digit disable
UE27		Transmit UPC-A leading character enable
UE28		Transmit UPC-A leading character disable
UE30		Add-on format with separator
UE31		Add-on format without separator
UE60		EAN-13 country code first "0" can be transmitted
UE61		EAN-13 country code first:"0" can't be transmitted
UE66		EAN-13 with first 0 ID code same as "UPC-A"
UE67		EAN-13 with first 0 ID code same as "EAN-13"
DC10		UPC-A data redundant check=off
DC11		UPC-A data redundant check=1



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
DC12		UPC-A data redundant check=2
DC13		UPC-A data redundant check=3
DC14		UPC-E data redundant check=off
DC15		UPC-E data redundant check=1
DC16		UPC-E data redundant check=2
DC17		UPC-E data redundant check=3
DC20		EAN-13 data redundant check=off
DC21		EAN-13 data redundant check=1
DC22		EAN-13 data redundant check=2
DC23		EAN-13 data redundant check=3
DC24		EAN-8 data redundant check=off
DC25		EAN-8 data redundant check=1
DC26		EAN-8 data redundant check=2
DC27		EAN-8 data redundant check=3
UE32		EAN/UPC +add-on (none mandatory)
UE33		EAN/UPC +add-on (mandatory)



End Of Configuration



Start Of Configuration

UE35		EAN/UPC +add-on mandatory for 978/977 bookland (Supplement requirement, not sent for other)
UE38		EAN/UPC +addon mandatory for 978/977 bookland (Supplement requirement, optional for other)
UE42		EAN/UPC +addon mandatory for 491 Japanese bookland (Supplement requirement, not sent for other)
UE43		EAN/UPC +addon mandatory 491 Japanese bookland (Supplement requirement, optional for other)



End Of Configuration



Start Of Configuration

Telepen Parameter Setting

Barcode Value	Barcode Label	Description
RC25		Telepen enable
RD25		Telepen disable
TE03		Telepen numeric mode enable
TE04		AIM Telepen enable



End Of Configuration



Start Of Configuration

Matrix 2 of 5 Parameter Setting

Barcode Value	Barcode Label	Description
RC12		Matrix 2 of 5 enable
RD12		Matrix 2 of 5 disable
D151		Matrix 2 of 5 maximum length setting
D152		Matrix 2 of 5 minimum length setting

SET



Confirm to save this setting (required for reading full ASCII table and length setting)

D153



Matrix 2 of 5 no check character

D154



Matrix 2 of 5 check digit calculate and transmit

D155



Matrix 2 of 5 check digit calculate but without transmission



End Of Configuration



Start Of Configuration

GS1 DataBar Parameter Setting

There are 7 kinds of barcodes in the GS1 DataBar family and they are categorized into three groups. Barcode types in the same group use the same barcodes for setting.

Group	Representative	Contents
Group 1	GS1 DataBar Omnidirectional (Formally RSS-14)	GS1 DataBar Omnidirectional GS1 DataBar Truncated GS1 DataBar Stacked GS1 DataBar Stacked Omnidirectional
Group 2	GS1 DataBar Limited (Formally RSS Limited)	GS1 DataBar Limited
Group 3	GS1 DataBar Expanded (Formally RSS Expanded)	GS1 DataBar Expanded GS1 DataBar Expanded Stacked

GS1 DataBar Omnidirectional (Formally RSS-14)

Barcode Value	Barcode Label	Description
RC15		GS1 DataBar Omnidirectional enable
RD15		GS1 DataBar Omnidirectional disable
SS00		Transmit GS1 DataBar Omnidirectional check digit
SS01		Do not transmit GS1 DataBar Omnidirectional check digit
SS02		Transmit GS1 DataBar Omnidirectional application ID (01)
SS03		Do not transmit GS1 DataBar Omnidirectional application ID (01)
SS05		GS1 DataBar Omnidirectional /EAN-128 emulation enable
SS04		GS1 DataBar Omnidirectional /EAN-128 emulation disable



End Of Configuration



Start Of Configuration

GS1 DataBar Limited (Formally RSS Limited)

Barcode Value	Barcode Label	Description
RC16		GS1 DataBar Limited enable
RD16		GS1 DataBar Limited disable
SS10		Transmit GS1 DataBar Limited check digit
SS11		Don't transmit GS1 DataBar Limited check digit
SS12		Transmit GS1 DataBar limited application ID (01)
SS13		Do not transmit GS1 DataBar limited application ID



End Of Configuration



Start Of Configuration

GS1 DataBar Expanded (Formerly RSS Expanded)

Barcode Value	Barcode Label	Description
RC17		GS1 DataBar Expanded enable
RD17		GS1 DataBar Expanded disable
SS07		GS1 DataBar Expanded/EAN-128 emulation enable
SS06		GS1 DataBar Expanded/EAN-128 emulation disable
SS08		GS1 DataBar Expanded check digital enable
SS09		GS1 DataBar Expanded check digital disable
SS16		Transmit GS1 DataBar Expanded application ID (01)
SS17		Do not transmit GS1 DataBar Expanded application ID



End Of Configuration



Start Of Configuration

Data Editing

Identifier Code

Barcode Value	Barcode Label	Description
IS00		Disable identifier code
IS01		Enable identifier code table as factory standard
IS03		Enable identifier code table as AIM standard.
CI01		Code 39 identifier code setting
CI02		ITF 2 of 5 identifier code setting
CI03		Chinese Post Code identifier code setting
CI04		UPC-E identifier code setting
CI05		UPC-A identifier code setting
CI06		EAN-13 identifier code setting
CI07		EAN-8 identifier code setting

SET



Confirm to save this setting (required for reading full ASCII table and length setting)



End Of Configuration



Start Of Configuration

Barcode Value	Barcode Label	Description
CI08		Codabar identifier code setting
CI09		Code 128 identifier code setting
CI10		Code 93 identifier code setting
CI11		MSI identifier code setting
CI12		GS1 DataBar Omnidirectional identifier code setting
CI13		GS1 DataBar Limited identifier code setting
CI14		GS1 DataBar expanded identifier code setting
CI15		Industrial 2 of 5 identifier code setting
CI16		Code 11 Identifier code setting
CI17		Standard 2 of 5 identifier code setting
CI18		Matrix 2 of 5 identifier code setting

SET		Confirm to save this setting (required for reading full ASCII table and length setting)
-----	--	---



End Of Configuration



Start Of Configuration

Header and Trailer

Barcode Value	Barcode Label	Description
CP11		Add code length as header enable (2 digits)
CP12		Add code length as header disable (2 digits)
HT01		Header (Preamble)
HT02		Trailer (Postamble)
HT03		Truncate header character
HT04		Truncate trailer character
SET		Confirm to save this setting (required for reading full ASCII table and length setting)



End Of Configuration



Start Of Configuration

Full ASCII Code 39 Table

Code 39	ASCII	Hexa - code	Code 39	ASCII	Hexa-code
	Full ASCII ---NUL	00		Full ASCII ---SI Function key----"Shift"	0F
	Full ASCII ---SOH Function key----"Ins"	01		Full ASCII ---DLE Function key---- "5(num)"	10
	Full ASCII ---STX Function key----"Del"	02		Full ASCII ---DC1 Function key----"F1"	11
	Full ASCII ---ETX Function key----"Home"	03		Full ASCII ---DC2 Function key----"F2"	12
	Full ASCII ---EOT Function key----"End"	04		Full ASCII ---DC3 Function key----"F3"	13
	Full ASCII ---ENQ Function key----"Up arrow"	05		Full ASCII ---DC4 Function key----"F4"	14
	Full ASCII ---ACK Function key----"Down arrow"	06		Full ASCII ---NAK Function key----"F5"	15
	Full ASCII ---BEL Function key----"Left arrow"	07		Full ASCII ---SYN Function key----"F6"	16
	Full ASCII ---BS Function key---- "Backspace"	08		Full ASCII ---ETB Function key----"F7"	17
	Full ASCII ---HT Function key----"TAB"	09		Full ASCII ---CAN Function key----"F8"	18
	Full ASCII ---LF Function key----"Enter (alpha numeric)"	0A		Full ASCII ---EN Function key----"F9"	19
	Full ASCII ---VT Function key----"right arrow"	0B		Full ASCII ---SUB Function key----"F10"	1A
	Full ASCII ---FF Function key----"PgUp"	0C		Full ASCII ---ESC Function key----"F11"	1B
	Full ASCII ---CR Function key---- "Enetr(num.)"	0D		Full ASCII ---FS Function key----"F12"	1C
	Full ASCII ---SO Function key----"PgDn"	0E		Full ASCII ---GS Function key----"ESC"	1D



End Of Configuration



Start Of Configuration

Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---RS Function key-----"CTL(L)"	1E		Full ASCII ---	2D
	Full ASCII ---US Function key-----"ALT(L)"	1F		Full ASCII ---.	2E
	Full ASCII ---SP	20		Full ASCII ---/	2F
	Full ASCII ---!	21		Full ASCII ---0	30
	Full ASCII ---"	22		Full ASCII ---1	31
	Full ASCII ---#	23		Full ASCII ---2	32
	Full ASCII ---\$	24		Full ASCII ---3	33
	Full ASCII ---%	25		Full ASCII ---4	34
	Full ASCII ---&	26		Full ASCII ---5	35
	Full ASCII ---'	27		Full ASCII ---6	36
	Full ASCII --- (28		Full ASCII ---7	37
	Full ASCII ---)	29		Full ASCII ---8	38
	Full ASCII ---*	2A		Full ASCII ---9	39
	Full ASCII ---+	2B		Full ASCII ---:	3A
	Full ASCII ---,	2C		Full ASCII ---;	3B



End Of Configuration



Start Of Configuration

Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---<	3C		Full ASCII ---K	4B
	Full ASCII ---=	3D		Full ASCII ---L	4C
	Full ASCII --->	3E		Full ASCII ---M	4D
	Full ASCII ---?	3F		Full ASCII ---N	4E
	Full ASCII ---@	40		Full ASCII ---O	4F
	Full ASCII ---A	41		Full ASCII ---P	50
	Full ASCII ---B	42		Full ASCII ---Q	51
	Full ASCII ---C	43		Full ASCII ---R	52
	Full ASCII ---D	44		Full ASCII ---S	53
	Full ASCII ---E	45		Full ASCII ---T	54
	Full ASCII ---F	46		Full ASCII ---U	55
	Full ASCII ---G	47		Full ASCII ---V	56
	Full ASCII ---H	48		Full ASCII ---W	57
	Full ASCII ---I	49		Full ASCII ---X	58
	Full ASCII ---J	4A		Full ASCII ---Y	59



End Of Configuration



Start Of Configuration

Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa-code	Code 39	ASCII	Hexa-code
	Full ASCII ---Z	5A		Full ASCII ---i	69
	Full ASCII ---[5B		Full ASCII ---j	6A
	Full ASCII ---\	5C		Full ASCII ---k	6B
	Full ASCII ---]	5D		Full ASCII ---l	6C
	Full ASCII ---^	5E		Full ASCII ---m	6D
	Full ASCII ---_	5F		Full ASCII ---n	6E
	Full ASCII ---`	60		Full ASCII ---o	6F
	Full ASCII ---a	61		Full ASCII ---p	70
	Full ASCII ---b	62		Full ASCII ---q	71
	Full ASCII ---c	63		Full ASCII ---r	72
	Full ASCII ---d	64		Full ASCII ---s	73
	Full ASCII ---e	65		Full ASCII ---t	74
	Full ASCII ---f	66		Full ASCII ---u	75
	Full ASCII ---g	67		Full ASCII ---v	76
	Full ASCII ---h	68		Full ASCII ---w	77



End Of Configuration



Start Of Configuration

Full ASCII Code 39 Table (continued)

Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCII ---x	78		Full ASCII ---	7C
	Full ASCII ---y	79		Full ASCII ---}	7D
	Full ASCII ---z	7A		Full ASCII ---~	7E
	Full ASCII ---{	7B		Full ASCII ---DEL	7F



End Of Configuration

Appendix 1: USB Virtual COM Driver Installation

Contact your distributor to get the driver and follow the steps below to enable USB virtual COM port.

1. Connect the handheld scanner and the host (e.g. a PC) with a USB interface cable.
2. Enable USB virtual COM port with programming barcode on page 32.
3. After the programming, the host would request driver installation. Browse your files to locate the driver and start installation.
4. The USB virtual COM port is ready for use after driver installation.

Appendix 2: Barcode Length Setting

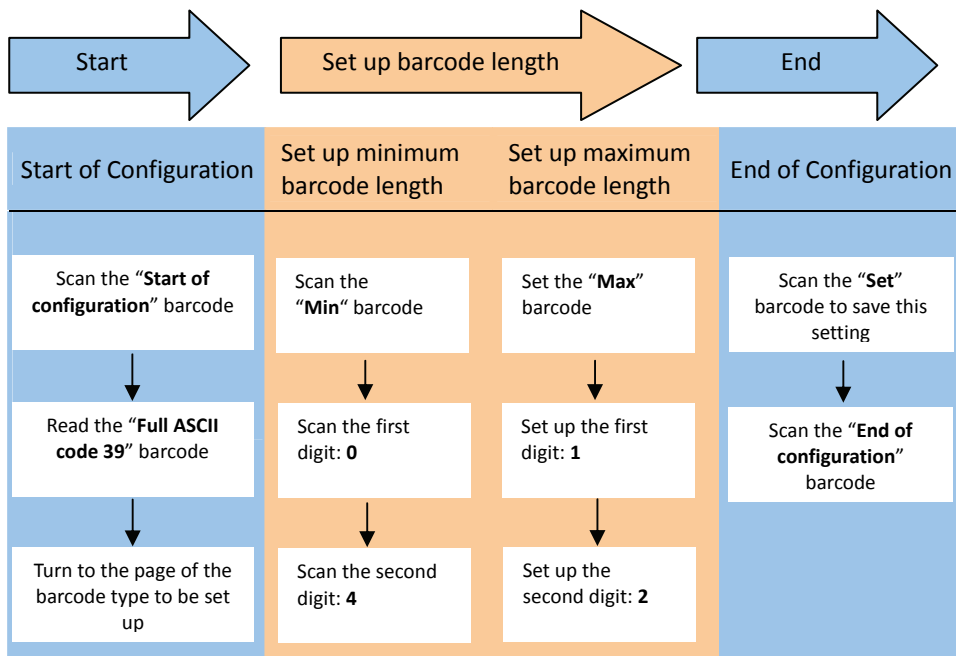
Introduction

The length of a barcode is the number of characters it contains, including check digits. As listed in the Default Parameters section, each barcode type has different default length. You may change the setting by the following procedure.

To set up barcode length, the parameters to be determined are barcode type and the desired barcode length. Barcode length is consisted of 2 digits. For numbers smaller than 10, you need to add a "0" in the front.

Example

If the barcode length is 4 to 12 digits, the steps would be as below:



Use the ASCII table (Appendix 4) to set up barcode length. Be sure to enable the full ASCII code 39 option before you start and read the "Set" label to set your choice into memory.

Federal Communication Commission Interference Statement

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.

15.21

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.

15.19

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.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.