DS3678

Digital Scanner with Keypad & Display

Quick Start Guide

Software Support

Zebra wants to ensure that customers have the latest entitled software at the time of device purchase in order to keep the device operating at peak performance levels. To confirm that your Zebra device has the latest entitled software available at the time of purchase, visit zebra.com/support.

Check for the latest software from Support > Products, or search for the device and select Support > Software Downloads.

If your device does not have the latest entitled software as of your device purchase date, e-mail Zebra at entitlementservices@zebra.com and ensure you include the following essential device information:

• Model number

• Serial number

• Proof of purchase

• Title of the software download you are requesting.

If it is determined by Zebra that your device is entitled to the latest version of software, as of the date you purchased your device, you will receive an e-mail containing a link directing you to a Zebra Web site to download the appropriate software.
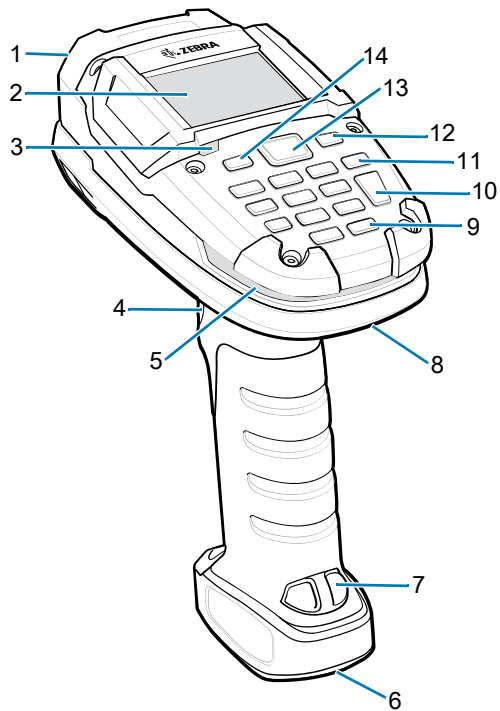
Additional Information

For information on using the DS3678 Digital Scanner with Keypad & Display, refer to the DS3678 Digital Scanner with Keypad & Display Product Reference Guide Supplement and DS36X8 Product Reference Guide guide available at: zebra.com/support.

Publication Date

March 11, 2021

Scanner Features

1	Scan Window
2	Display
3	Ambient Light Sensor
4	Scan Trigger
5	System/Decode LED
6	Battery Latch
7	Lanyard Catch
8	Sound Port

Keypad with Alpha/Numeric Keys and Function Keys:	
9	Home
10	Enter
11	Backspace
12	Blue Shift Function
13	4-way Navigation Arrows
14	Green Shift Function

Battery Insertion/Removal
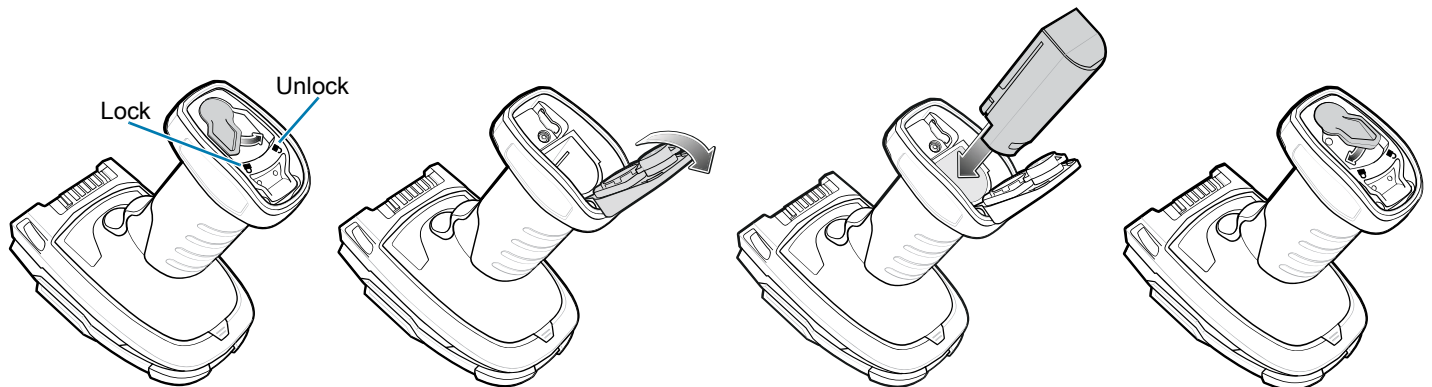
Cradle Cable Connection

Latch   Host Port
(Under Latch)

Cradle Insertion

Page Button
LEDs (two)
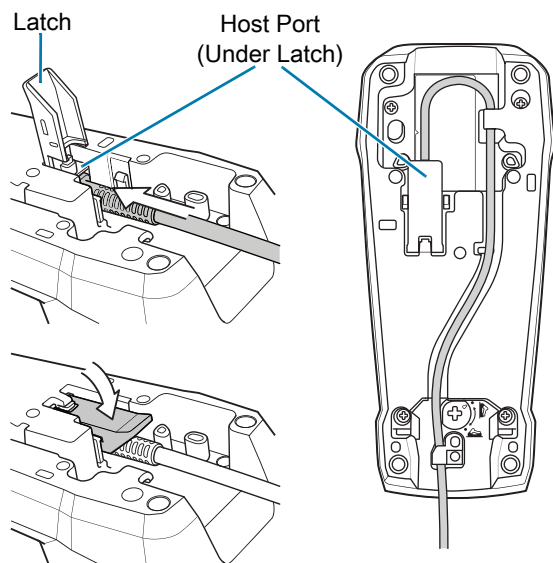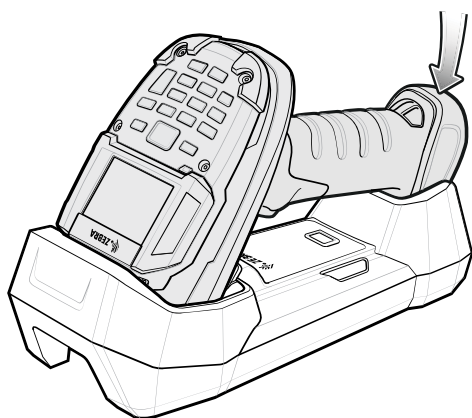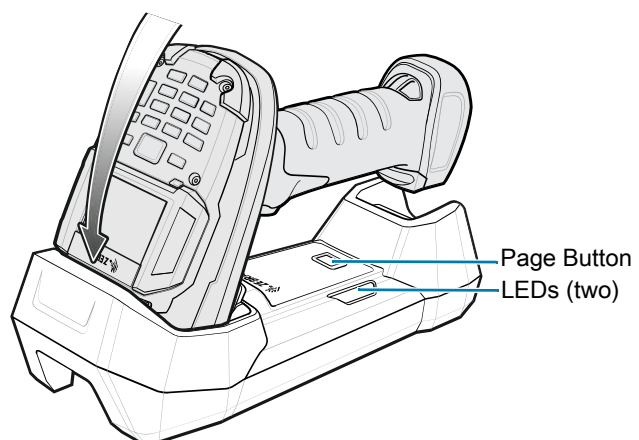
Host Interface Connections and Setup

USB
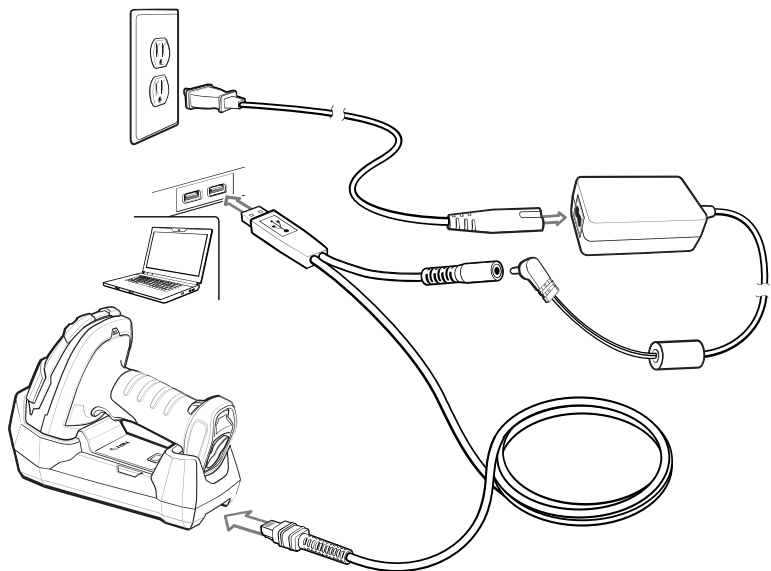
Scan one of the barcodes below

The interface cable automatically detects the host interface type and uses the default setting. If the default (*) does not meet your requirements, scan another host barcode below.

Table 1 USB

*USB KEYBOARD (HID)

USB CDC HOST

IBM TABLE TOP USB

IBM HAND-HELD USB

SNAPI WITHOUT IMAGING

SNAPI WITH IMAGING

USB OPOS HAND-HELD

SSI OVER USB CDC

SIMPLE COM PORT EMULATION

RS-232
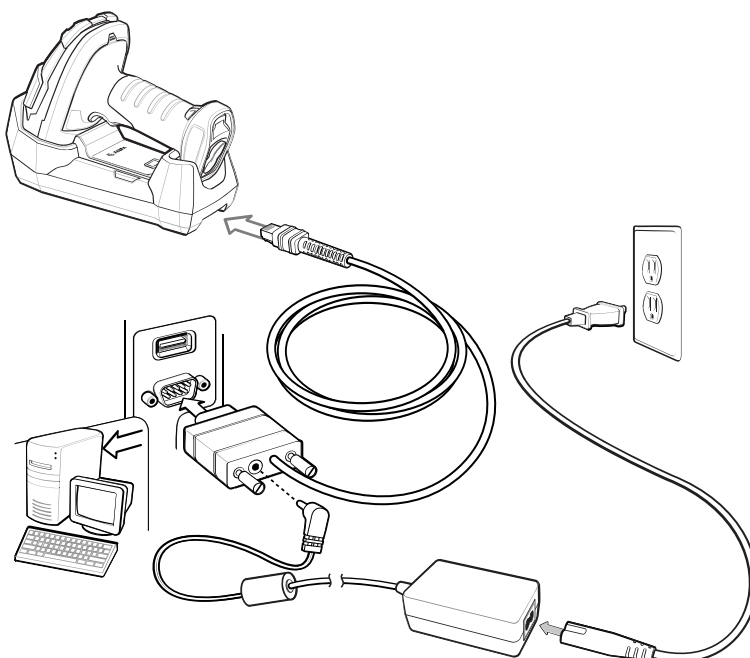
Scan one of the barcodes below

The interface automatically detects the host interface type and uses the default setting. If the default (*) does not meet your requirements, scan another host barcode below.

*STANDARD RS-232

ICL RS-232

NIXDORF RS-232 MODE A

NIXDORF RS-232 MODE B

FUJITSU RS-232

OPOS/JPOS

Keyboard Wedge
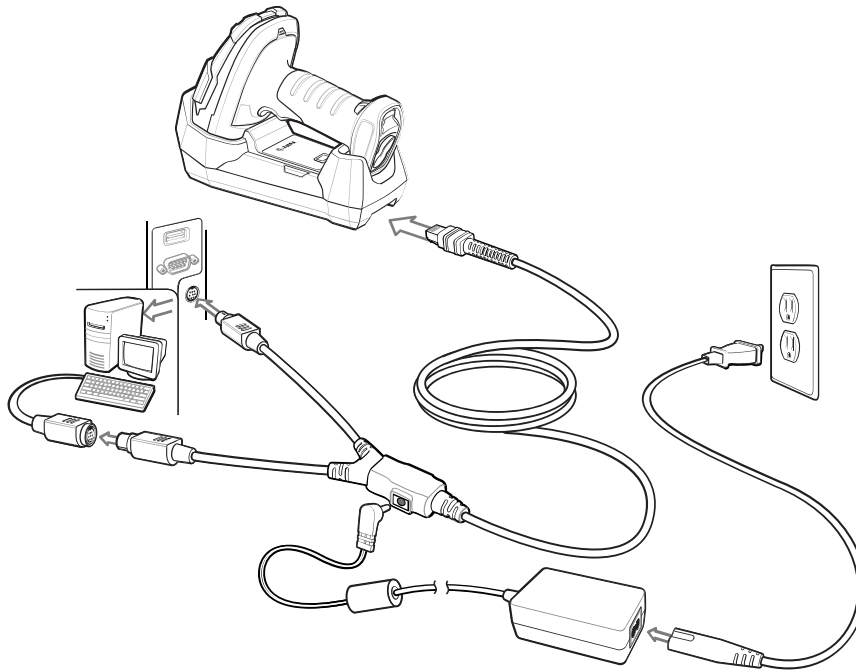
Scan a barcode below

The Auto-Host Detect Cable feature automatically detects the host interface type and uses the default setting. If the default (*) does not meet your requirements, scan the IBM PC/AT and IBM PC COMPATIBLE barcode below.

*IBM AT NOTEBOOK

IBM PC/AT and IBM PC COMPATIBLE

IBM 46XX
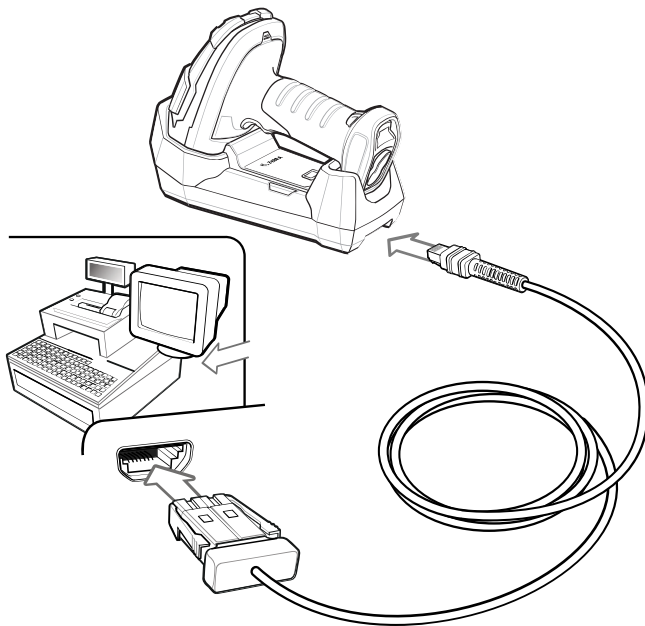
Scan one of the barcodes below

The Auto-Host Detect Cable feature automatically detects the host interface type, but there is no default setting. Scan one of the barcodes below to select the appropriate port.

NON-IBM SCANNER EMULATION (PORT 5B)

HAND-HELD SCANNER EMULATION (PORT 9B)

TABLE-TOP SCANNER EMULATION (PORT 17)

Set Defaults Barcode

RETURN TO FACTORY DEFAULTS

Enter Key Barcode (Carriage Return/Line Feed)

Add an Enter key after scanned data.
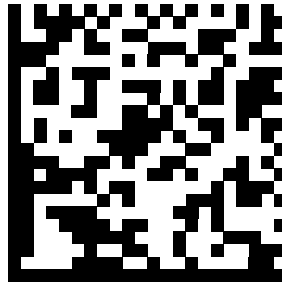
ADD AN ENTER KEY (CARRIAGE RETURN/LINE FEED)

Tab Key Barcode

Add a Tab key after scanned data.

ADD A TAB KEY

USB Caps Lock Override

USB - OVERRIDE CAPS LOCK KEY (ENABLE)

*USB - DO NOT OVERRIDE CAPS LOCK KEY (DISABLE)

DS3678-HP Aiming

Cover the entire barcode with the aiming pattern to ensure it is within the field of view.

Recommended Usage -Optimum Body Posture

Avoid Extreme Wrist Angles
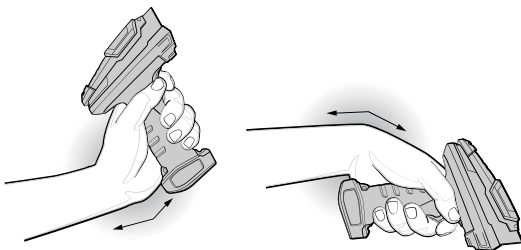
Avoid Bending
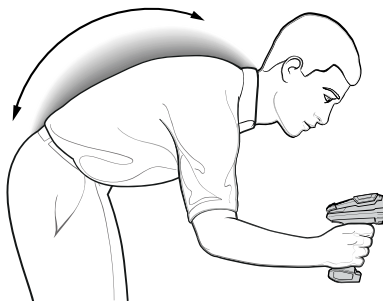
Avoid Reaching

Scanner Display Indications

Indication	Icon
Battery Icons	
Critical low battery; 4 short high beeps	
Battery 25% full	
Battery 50% full	
Battery 75% full	
Battery full	
Connection Icons	
Bluetooth active	
Bluetooth inactive	
Keypad Functionality	
Blue shift function	FN

Indication	Icon
Green shift function	**ABC**
Home	🏠
Batch Mode	🔋

LED Indications

Indication	LED
Hand-Held Scanning	
The scanner is on and ready to scan, or no power to the scanner	Off
A barcode is successfully decoded	Green
Transmission error	Red
Hand-Free (Presentation) Scanning	
No power to the scanner	Off
The scanner is on and ready to scan	Green
A barcode is successfully decoded	Off momentarily
Transmission error	Red

Beeper Indications

Indication	Beeper Sequence
Power up	Low/medium/high beep
A barcode is successfully decoded	Medium beep
Transmission error detected; data is ignored	4 long low beeps
Successful parameter setting	High/low/high/low beep
Correct programming sequence performed	High/low beep
Incorrect programming sequence, or **Cancel** barcode scanned	Low/high beep

NOTE: In addition to the System/Decode LEDs, the DS3678 cordless digital scanner has a Radio and Battery LED gauge. Refer to the DS3678 with Keypad & Display Product Reference Guide Supplement and DS36X8 Product Reference Guide for detailed information.

DS3678 Aiming

Cover the entire barcode with the aiming pattern to ensure it is within the field of view.

Troubleshooting

Problem	Possible Causes	Possible Solutions
Scanner not working.	No power to scanner.	Check system power.
	Scanner is disabled.	Ensure that correct host interface cable is used.
Scanner decoding barcode, but data not transmitting to host.	Host interface not configured properly.	Scan appropriate host parameter barcodes.
	Interface cable is loose.	Ensure all cable connections are secure.
	Invalid ADF rule.	Program the correct ADF rules.
	Scanner not paired to cradle.	Scan cradle pairing barcode.
Scanner not decoding barcode.	Scanner not programmed for barcode type.	Ensure scanner is programmed to read type of barcode being scanned.
	barcode unreadable.	Ensure barcode is not defaced; try scanning test barcode of same barcode type.
	Distance between scanner and barcode incorrect.	Move scanner closer to, or further from barcode.
Scanned data incorrectly displayed on host.	Host interface not configured properly.	Scan appropriate host parameter barcodes.
	Region improperly configured.	Select appropriate country and language encoding scheme.

123Scan[2]

123Scan2 is an easy-to-use, PC-based software tool that enables rapid and easy customized setup of a scanner via a barcode or USB cable. For more information, visit: www.zebra.com/123Scan2.

Warranty

For the complete Zebra hardware product warranty statement, go to: [zebra.com\warranty](zebra.com\warranty).

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or System Support. If there is a problem with the equipment, they will contact Zebra support at zebra.com\support.

For the latest version of the guide go to: [zebra.com\support](zebra.com\support).

Regulatory Information

This device is approved under Zebra Technologies Corporation.

This guide applies to the following model number: DS3678

All Zebra devices are designed to be compliant with the rules and regulations in the locations they are sold and will be labeled as required.

Local language translation / Tradução do idioma local / Übersetzung in die lokale Sprache / Raduccion de idioma local / Traduction en langue locale / Prijevod na lokalni jezik / Traduzione in lingua locale / 現地語の翻訳 / 현지 언어 번역 / Перевод на местный язык / 本地語言翻譯 / 本地语言翻译 / Yerel dil çeviri /Tłumaczenie na język lokalny: www.zebra.com/support

Any changes or modifications to Zebra equipment not expressly approved by Zebra could void the user's authority to operate the equipment.

Declared maximum operating temperature: 50°C

⚠️ **CAUTION:** Only use Zebra approved and NRTL-certified accessories, battery packs, and battery chargers. Do NOT attempt to charge damp/wet mobile computers, printers or batteries. All components must be dry before connecting to an external power source.

Bluetooth® Wireless Technology

This is an approved Bluetooth® product. For more information on the Bluetooth SIG listing, please visit www.bluetooth.com.

Regulatory Markings

Regulatory markings subject to certification are applied to the device signifying the radio(s) is/are approved for use. Refer to the Declaration of Conformity (DoC) for details of other country markings. The DOC is available at: www.zebra.com/doc.

Safety in Hospitals and Aircraft

NOTE: Wireless devices transmit radio frequency energy that may affect medical electrical equipment and aircraft's operation. Wireless devices should be switched off wherever you are requested to do so in hospitals, clinics, healthcare facilities or by airline staff. These requests are designed to prevent possible interference with sensitive equipments.

Health and Safety Recommendations

Ergonomic Recommendations

In order to avoid or minimize the potential risk of ergonomic injury, always follow good ergonomic workplace practices. Consult with your local Health and Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

Laser Devices

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

The following statement is required to comply with US and international regulations.

⚠️ **CAUTION:** Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous laser light exposure.

LASER LIGHT- DO NOT STARE INTO BEAM .
CLASS 2 LASER PRODUCT. LASERLICHT - NICHT IN DEN
STRAHL BLICKEN. LASER KLASSE 2.
LUMIÈRE LASER - NE PAS REGARDER DANS LE FAISCEAU.
APPAREIL À LASER DE CLASSE 2   630-680nm, 1mW
激光辐射 勿直视光束 2 类激光产品

LED Compliance Statement: Classified as 'EXEMPT RISK GROUP' according to IEC 62471:2006 and EN 62471:2008. Pulse duration: CW (DS3678 HP with SE475xMR).

Scanner Labeling

LASER LIGHT- DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT, 630-680nm, 1mW DS3678-SR - Label not applicable. DS3678-DP - Label located on side of scanner.

DS3678-SR LED - Exempt Risk Group
DS3678-ER Class 2
DS3678-HP Class 2
DS3678-HD Class 2
DS3678-DP Class 2

COMPLIES WITH 21 CFR1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 56, DATED MAY 08, 2019 AND IEC/EN 60825-1:2007 and/or IEC/EN 60825-1:2014

CAUTION-CLASS 2 LASER LIGHT WHEN OPEN. AVOID DIRECT EYE CONTACT.

1. Laser Light — do not stare into beam Class 2 Laser product. 630-680nm, 1mW

2. Complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 56, DATED May 08, 2019 and IEC/EN 60825-1:2014.

Batteries and Power Packs

This information applies to Zebra-approved batteries and power packs containing batteries.

Battery Information

⚠ **CAUTION**: Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to instructions.

Use only Zebra approved batteries. Accessories which have battery charging capability are approved for use with the following battery model: Model 82-166537 (3.6 VDC, 3150 mAh).

Zebra approved rechargeable battery packs are designed and constructed to the highest standards within the industry.

However, there are limitations as to how long a battery can operate or be stored before needing replacement. Many factors affect the actual life cycle of a battery pack such as heat, cold, harsh environmental conditions, and severe drops.

When batteries are stored over six months, some irreversible deterioration in overall battery quality may occur. Store batteries at half charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts, and electrolyte leakage. When storing batteries for one year or longer, the charge level should be verified at least once a year and charged to half charge.

Replace the battery when a significant loss of run time is detected.

• Standard warranty period for all Zebra batteries is one year, regardless if the battery was purchased separately or included as part of the host device. For more information on Zebra batteries, please visit: www.zebra.com/batterydocumentation and select the Battery Best Practices link.

Battery Safety Guidelines

ⓘ **IMPORTANT** – SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS

⚠ **WARNING –** When using this product basic safety precautions should always be followed, including the following:

The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non-commercial environment.

• Read all the instructions before using the product.

• Follow battery usage, storage, and charging guidelines found in the user's guide.

• Improper battery use may result in a fire, explosion, or other hazard.

• To charge the mobile device battery, the battery and charger temperatures must be between 0°C and +40°C (+32°F and +104°F).

• Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Zebra support.

• Do not disassemble or open, crush, bend or deform, puncture, or shred. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.

• Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.

• Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.

• Do not modify, disassemble, or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water, rain, snow or other liquids, or expose to fire, explosion, or other hazard.

• Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.

• To reduce the risk of injury, close supervision is necessary when used near children.

- Please follow local regulations to promptly dispose of used re-chargeable batteries.

- Do not dispose of batteries in fire. Exposure to temperatures over 100°C (212°F) may cause explosion.

- Seek medical advice immediately if a battery has been swallowed.

- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.

- If you suspect damage to your equipment or battery, contact Zebra support to arrange for inspection.

CE Marking and European Economic Area (EEA)

Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with Directives 2014/53/EU and 2011/65/EU.

Any radio operation limitations within EEA countries are identified in Appendix A of EU Declaration of Conformity. The full text of the EU Declaration of Conformity is available at: www.zebra.com/doc.

EU Importer: Zebra Technologies B.V
Address: Mercurius 12, 8448 GX Heerenveen, Netherlands

Waste Electrical and Electronic Equipment (WEEE)

For EU and UK Customers: For products at the end of their life, please refer to recycling/disposal advice at: www.zebra.com/weee.

United States and Canada Regulatory

Radio Frequency Interference Notices

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.

NOTE: 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 or more 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.

Radio Frequency Interference Requirements – Canada

This device complies with Innovation, Science and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Requirements - FCC and ISED

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated in compliance with the FCC RF emission guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid.

中国

通过访问以下网址可下载当地语言支持的产品说明书 www.zebra.com/support

合 格 证

产品中有害物质的名称及含量

China RoHS

This table was created to comply with China RoHS requirements.

部件名称 (Parts)	有害物质					50
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	X	O	O	O	O	O
电路模块 (Circuit Modules)	X	O	O	O	O	O
电缆及电缆组件 (Cables and Cable Assemblies)	O	O	O	O	O	O
塑料和聚合物部件 (Plastic and Polymeric Parts)	O	O	O	O	O	O
光学和光学组件 (Optics and Optical Components)	X	O	O	O	O	O
电池 (Batteries)	O	O	O	O	O	O

本表格依据SJ/T 11364 的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在 SJ/T 11364--2014 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11364--2014 规定的限量要求。（企业可在此处，根据实际情况对上表中打"×"的技术原因进行进一步说明。）

This table was created to comply with China RoHS requirements.

Евразийский Таможенный Союз (EAC)

Данный продукт соответствует требованиям знака EAC.

臺灣

低功率電波輻射性電機管理辦法

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

公司資訊

台灣斑馬科技股份有限公司 / 台北市信義區松高路 9 號 13 樓

行政院環保署 (EPA) 要求乾電池製造或進口商，需依廢棄物清理法第 15 條之規定，於販售、贈

送或促銷的電池上標示回收標誌。請聯絡合格的台灣回收廠商，以正確棄置電池。

限用物質含有情況標示聲明書

TÜRK WEEE Uyumluluk Beyanı

EEE Yönetmeliğine Uygundur.

United Kingdom

Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with the Radio Equipment Regulations 2017 and the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

Any radio operation limitations within UK are identified in Appendix A of UK Declaration of Conformity.

The full text of the UK Declaration of Conformity is available at: www.zebra.com/doc.

UK Importer: Zebra Technologies Europe Limited
Address:
Dukes Meadow, Millboard Rd, Bourne End, Buckinghamshire, SL8 5XF