BARTEC

FAQ - Frequently Asked Questions

Hand-held scanner BCS3678ex series

AutoConfig

Hand-held scanner type:

Scanner type 17-A1S4-2HP1/** and base station 17-A1Z0-0014**

Scanner type 17-A1S4-2ER1/** and base station 17-A1Z0-0014**

Scanner type B7-A2S4-2HP1/** and base station G7-A0Z0-0010**

Scanner type B7-A2S4-2ER1/** and base station G7-A0Z0-0010**

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Reservation: Technical data subject to change without notice. Changes, errors and misprints may not be used as a basis for any claim for damages.

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1. Information of this FAQ

Read carefully before commissioning the device.

The FAQ is an additional description of the available Quick Start Guide and part of the device.
The FAQ is directed at all persons who are entrusted with handling the device.
Knowledge of the safety instructions and warnings in this FAQ and strict compliance with them is essential for safe handling.

- Carefully read the FAQ and especially the safety instructions before using the device.
- Make the FAQ accessible to all people who are entrusted with handling the device.

Warnings are used in this FAQ - Frequently Asked Questions to warn of the risks of damage to property and personal injuries.

Symbol	Explanation
	Important advice and information for the effective, efficient, and environmentally sound use of the product.

1.1 Co-applicable documents

All documents are available online from the following websites:

BARTEC: www.bartec.com or http://automation.bartec.de/mobileE.htm

ZEBRA: www.zebra.com

In the event of an overlaps with Zebra, the instructions of BARTEC apply.

Document BARTEC	Explanation
User manual BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This User Manual describes the use of the Hand-held scanner BCS3600ex series.
Quick Start Guide BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This Quick Start Guide describes the safety-related information, first use, and further data of the Hand-held scanner BCS3600ex series.
Data sheet BCS3608ex-NI / BCS3608ex-IS / BCS3678ex-NI / BCS3678ex-IS	This technical data sheet contains the most important explosion protection technical data as well as general technical data.

Document ZEBRA	Explanation
For DS3608 and DS3678 ▪ **Product Reference Guide** ▪ **Multicode Data Formatting and Preferred Symbol** ▪ **Advanced-Data Formatting (ADF)** ▪ **Simple Serial Interface Programmer's Guide**	Instructions for commissioning, operating, configuring, programming, and maintaining hand-held scanners (full information can be found on the ZEBRA support page).

2. About AutoConfig

Simply insert or pair the BARTEC's BCS3678ex scanner for Zone 1/21 and Division 1 or Zone 2/22 and Division 2 to a different cradle and it will automatically self-configure for the new workflow - no manual configuration required. That means you can easily take a new BCS3678 scanner and start using it right out of the box or take a scanner from anywhere else in your operations and use it where it's needed most. There's no need to wait for IT to reprogram the scanner for a different host application. You get the flexibility to adapt to changing workflow needs and your scanners are always where they can deliver maximum value.

3. Requirements

The following requirements must be fulfilled so that AutoConfig can be used.

- The BCS3678ex and cradle types used must be of the same type.
  Following combinations are possible:

BARTEC BCS3678ex scanner type	BARTEC base station
17-A1S4-2HP1 BCS3678ex-IS with SE4750-HP scan engine	17-A1Z0-0014
17-A1S4-2ER1 BCS3678ex-IS with SE4850-ER scan engine	17-A1Z0-0014
B7-A2S4-2HP1 BCS3678ex-NI with SE4750-HP scan engine	G7-A0Z0-0010
B7-A2S4-2ER1 BCS3678ex-NI with SE4850-ER scan engine	G7-A0Z0-0010

- A device mix of different configurations does not work.
  The following combinations are not possible:
  - The BCS3678ex with SE4750-HP scan engine cannot mixed with BCS3678ex with SE4850-ER scan engine
  - The BCS3678ex-IS series cannot be used with base station type G7-A0Z0-0010.
  - The BCS3678ex-NI series cannot be used with base station type 17-A1Z0-0014.

- The scanner models must be recognized as identical by the Zebra 123Scan Utility and should ideally have the same firmware version.

4. Configuration

4.1 AutoConfig (Scanner Cloning Through Cradle)

Parameter # 2139 (SSI # F8 08 5B)

This parameter controls scanner cloning through the cradle/base station. When this parameter is enabled, the cradle's/base station stored scanner parameters are transmitted to the Zebra DS3678 / BARTEC BCS3678ex upon pairing to the cradle/base station, configuring the DS3678 / BARTEC BCS3678ex with updated parameters. This allows the scanner to be automatically configured for a new host application, use case, or workflow. This feature is disabled by default.

***Disable**
(0)

Enable
(1)

The cradle's configuration of the scanner is limited to the following scanner parameters:

- All Symbologies Parameters (see Zebra Product Reference Guide (ZPRG) Chapter 13, Symbologies)
- Advanced-Data Formatting rules (see ZPRG Advanced Data Formatting (ADF) on pages 16-1)
- Multicode Rules (see ZPRG Multicode Data Formatting (MDF) on pages 16-1)
- Picklist Mode (see ZPRG Picklist Mode on pages 6-27)
- Digimarc Digital Watermarks (see ZPRG Digimarc Digital Watermarks on pages 15-1)
- Reconnect Attempt Beep Feedback (see ZPRG Reconnect Attempt Beep Feedback on pages 5-25).
- Data Parsing (UDI, Blood Bag, GS1 Label) rules (see Data Parsing (UDI Scan+, Label Parse+ and Blood Bag Parse+) in this file))

NOTE

- When AutoConfig (Scanner Cloning Through Cradle) is enabled, scanning is disabled for up to 3 to 5 seconds while the configuration is being uploaded to the scanner. The green LED blinks during this period.
- Any pre-programmed scanner settings listed above are overwritten and lost once AutoConfig (Scanner Cloning Through Cradle) is performed by pairing the scanner and cradle.
- AutoConfig (Scanner Cloning Through Cradle) is not supported in Multi-Point to Point mode (only the default Point-to-Point mode is supported).

Cradle (base station) Configuration

The cradle/base station can be configured using one of the following methods:

- Zebra 123Scan Utility
- Parameter bar codes in Zebra Product Reference Guide (ZPRG)
  NOTE
  The scanner must be paired to the cradle/base station when performing parameter bar code scanning for it to persist and be loaded in the future AutoConfig (Scanner Cloning Through Cradle) sessions
- A Zebra Scanner Software Development Kit (SDK) generated application.
- Scanner Management Service SMS

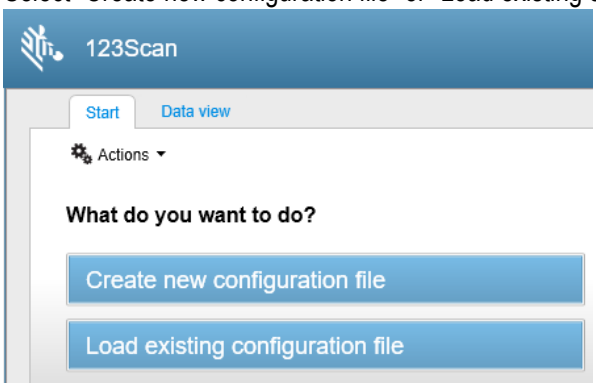
4.2 Setup with Zebra 123 Scan Utility

Zebra 123Scan Utility is freeware.

Download is available on Zebra.com.

Enable AutoConfig:

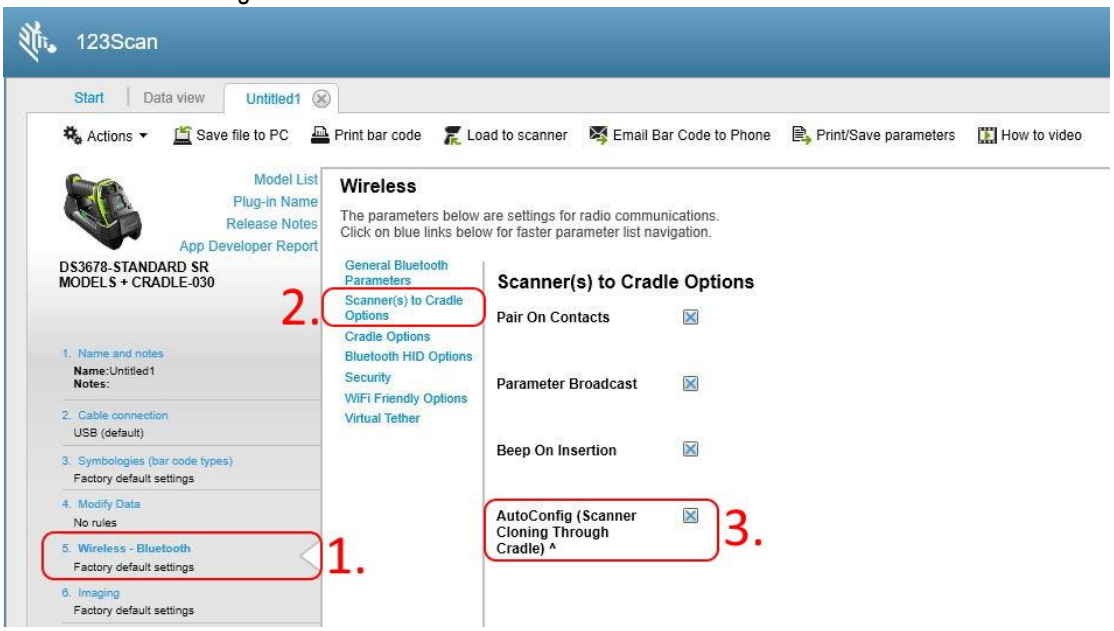
- Start 123Scan Utility
- Select “Create new configuration file“ or “Load existing configuration file“



- 1. Select menu “5. Wireless – Bluetooth“
  2. Select “Scanner(s) to Cradle Options“
  3. Go to the checkbox for “AutoConfig (Scanner Cloning Through Cradle)”

  ☐ The AutoConfig function is not activated

  ☒ The AutoConfig function is activated



5. Additional information

5.1 Data Parsing (UDI Scan+, Label Parse+ and Blood Bag Parse+)

Data Parsing allows a Zebra scanner to scan a UDI label, GS1 label, or Blood Bags with one or more barcodes encoded with multiple data fields (such as date of manufacture, expiration date, batch number, GTIN, and SSCC) and transmit select data fields and not others, in a specific order to a host application. Simply wave the scanner over all the barcodes while holding the trigger and the scanner takes care of the rest.

The scanner finds and transmits only the required data fields, even if they are spread across multiple barcodes and on different sides of the container. In addition, the scanner can insert field separators (such as tab, enter, and slash) to automate data entry into a host application.

Programming your scanner is easy using 123Scan’s intuitive drag-and-drop interface. For more information on writing a Data Parsing Rule, refer to the Data Parsing (UDI, GS1 Label, Blood Bag) on Zebra Scanners User Guide available at: zebra.com/support.

To watch a video on creating a Data Parsing Rule using 123Scan, go to: zebra.com/ScannerHowToVideos.

5.2 Scan a UDI Label using UDI Scan+

Government regulatory agencies[1] have established Unique Device Identification (UDI) standards to identify and monitor the distribution and use of medical devices within healthcare environments. These UDI standards identify medical devices from manufacturing through distribution to patient use - enabling complete traceability of the millions of individual medical devices utilized for patient care. To enable UDI compliance, all medical devices must carry a UDI label to enable “track and trace” from the point of production, during shipment, through the product’s use and disposal.

NOTE:

[1] United States Food and Drug Administration (FDA), European Commission, International Medical Device Regulatory Forum.

5.3 Scan a GS1 Label using Label Parse+

The GS1 Organization, an international standards body, has released specifications used worldwide for generating shipping labels. These labels are used when shipping packages (logistics), raw materials and produce.

6. Glossary

- ADF = Advanced Data Formatting
- BCS3678ex = BARTEC Ex version of the Zebra DS3678 series
  BARTEC BCS3678ex-HP is based on Zebra DS3678-HP
  BARTEC BCS3678ex-ER is based on Zebra DS3678-ER
  BCS3678ex-IS is the ATEX/IECEx Zone 1/21 and Division 1 solution
  BCS3678ex-NI is the ATEX/IECEx Zone 2/22 and Division 2 solution
- Cradle = BARTEC base station
- DS3678 = Zebra standard non-ex ultra-rugged scanner series
- FDA = United States Food and Drug Administration
- GS1 = a network of not-for-profit organizations that develop, negotiate and maintain standards for cross-enterprise processes worldwide.
- GTIN = Global Trade Item Number
- ICCBBA = enhances safety for patients by promoting and managing the ISBT 128 international information standard for use with medical products of human origin.
- MDF = Multicode Data Formatting
- SDK = Scanner Software Development Kit
- SMS = Scanner Management Service
- SSCC = Serial Shipping Container Code
- UDI = Unique Device Identification
- ZPRG = Zebra Product Reference Guide