

# CS4070

## Bar Code Scanner Product Code

### Version CAACHS01-005-R04

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## Description

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*Thank you,*

*The Motorola Enterprise Mobility Software Development Team*

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## Device Compatibility

See section Supported Devices in CS4070 Product Reference Guide doc# MN000762A05 Latest Revision

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# Release Notes

## **CAACHS01-005-R04B1**

**CPU Version : PAACHS00-005-R04B1**

**Bluetooth Version : TAACHS00-004\_R04 (new)**

**Dongle Version : PAACRS00-004-R00**

**Decoder Product Code : CAABLC20-004-R00**

- 1) Fixes issues with pairing with Windows 10 in Bluetooth HID Profile.

## **CAACHS00-005-R04B1**

**CPU Version : PAACHS00-005-R04B1**

**Bluetooth Version : TAACHS00-004\_R03**

**Dongle Version : PAACRS00-004-R00**

**Decoder Product Code : CAABLC20-004-R00**

1. Added ability to disable Bluetooth Sniff mode to address issues with some tablets.  
Unpublished parameter and available on request
2. Added Bluetooth Emulate Keypad with Leading 0 to better support international keyboards

## **CAACHS00-005-R03B1**

**CPU Version : PAACHS00-005-R03B1**

**Bluetooth Version : TAACHS00-004\_R02**

**Dongle Version : PAACRS00-004-R00**

**Decoder Product Code : CAABLC20-003-R00**

3. Fixes issue with iOS SDK developed application losing connection and not reconnecting to device.
4. Fixes issue where scanner intermittently stops scanning for 2-30 seconds.

## **CAACHS00-005-R01B1**

**CPU Version : PAACHS00-005-R01B1**

**Bluetooth Version : TAACHS00-004\_R01**

**Dongle Version : PAACRS00-004-R00**

**Decoder Product Code : CAABLC20-003-R00**

1. Fixes issue where on some RS232 applications, data was sent with a line break in the middle of the data
2. Fixes issue when scanning quickly, there was an occasional lag between trigger pulls
3. Fixes issue where prefix / suffix were not applied to batched data
4. Fixes issues with charging at very low temperatures

# **CAACHS00-005-R00B1**

**CPU Version : PAACHS00-005-R00B1**

**Bluetooth Version : TAACHS00-004\_R00**

**Dongle Version : PAACRS00-004-R00**

**Decoder Product Code : CAABLC20-003-R00**

NOTE: All software defined above must be loaded on the CS4070 device and Dongle, if used, in order for the entire system to function correctly. No component software executable image above can exist without the other executable component

## **Feature Enhancements:**

Please reference the latest CS4070 Product Reference Guide (PRG) for more detailed explanation of CS4070 Rev E feature enhancements

### **1. Bluetooth HID Host Name**

This feature is used with the HID Security feature to allow a user to enter up to 3 Bluetooth HID Host names from 123Scan so that when pairing and connecting to an Android and/or Windows device HID Security can be set to High but pin code entry is not required. A user can now specify at entry into service those HID Host Android and/or Windows devices that will not require pin code entry on subsequent pairing and connection of the CS4070 scanner to these specific HID Host devices.

### **2. CS4070 Dongle USB CDC Support:**

Users can now write command and control scanner applications for the CS4070 scanner using Zebra's Simple Serial Interface Over USB CDC through a Dongle connection.

Zebra's Windows CDC driver located on this website <https://www.zebra.com/us/en/support-downloads/software/drivers/usb-cdc-driver.html> allows users to communicate with the CS4070 over a virtual RS232 serial communication port through the CS4070 Dongle.

### **3. WiFi Friendly Mode**

This feature is common to all Zebra Cordless scanner products and is used to prevent the scanner from interfering with WiFi radio frequency channels. The CS4070 scanner can be configured to exclude or avoid up to 11 different WiFi channels after establishing a connection to a Bluetooth Host system.

### **4. Cordless Bluetooth Wedge**

The CS4070 can now pair and connect with Zebra's Cordless Bluetooth Wedge Windows utility application program located on this website <https://www.zebra.com/us/en/support-downloads/software/utilities/cordless-bluetooth-wedge.html>.

**Zebra's Cordless Bluetooth Wedge Windows Utility :** This application consolidates barcode data transmitted from 1 to (up to 7) CS4070 cordless Bluetooth scanners into any 3<sup>rd</sup> party keyboard application.

## 5. Discovery Mode Timeout

The CS4070 will now timeout when placed into a discovery mode by pressing and holding the Bluetooth key for greater than 5 seconds if the scanner cannot establish a Bluetooth connection to a Bluetooth Host within the programmable timeout. This is done to automatically conserve battery life. This timeout is configured using the Connection Interval timeout parameter for the Automatic Reconnection feature. See CS4070 PRG.

## 6. Automatic Day/Night Mode

This is a new feature specific to CS4070 that is targeted to the Health care market and allows an end user to automatically program the start and stop times for night mode. Night mode simply mutes the beeper and automatically enables the pager motor for silent vibration feedback. Day mode is triggered at the stop time and will automatically enable the beeper when the stop time is reached.

## 7. Out of Range Electric Fence Alarm

This is a new feature specific to CS4070 that is targeted to the Health care market and prevents scanners from going missing from a fixed location. The scanner can be configured to sound an Alarm if the scanner is out of range of the Bluetooth Host for extended periods. The Alarm duration and the Alarm Trigger are both programmable from 3 seconds to as much as 10 minutes.

## 8. Batch Mode

CS4070 now implements Batch Mode states similar to the Batch Mode feature of Zebra's other Cordless scanner products. There are 4 Batch Mode states:

- o **Normal Batch Mode : Default** - Does not batch data. The scanner MUST be paired and connected to a Bluetooth Host system before scanning any barcode.
- o **Standard Batch Mode** : A user MUST scan the **EnterBatchMode** action barcode in the PRG before the scanner will batch data.
- o **Out of Range Batch Mode** - In this state the scanner will ONLY batch data when the scanner is out of range of the Bluetooth Host system.
- o **Batch ONLY Mode** : In this state the scanner ONLY batches data and the Bluetooth radio is OFF.

**SendBatchData Over Bluetooth** : The CS4070 scanner can send the contents of all batch data stored in the /CS4070/Scanned Barcodes/BARCODES.txt file over Bluetooth when the scanner is in either a Standard Batch Mode or Out of Range Batch Mode state. In Standard Batch Mode use this SendBatchData action barcode in the PRG. In Out of Range Batch Mode it is automatic when the scanner comes back into range.

## 9. Bluetooth Friendly Name

This Bluetooth Friendly name for the CS4070 scanner can now be configured from 123Scan and using parameter barcode programming from the PRG. The default name for the scanner is **CS4070:<serial number>**.

#### **10. All Parameters in the CONFIG.INI File now have self documenting names**

One unique feature of the CS4070 scanner is the scanner can be configured directly from the CONFIG.INI file stored in the **/CS4070/Parameters** when plugging the scanner into a USB port. All parameters now have self-documenting names that are consistent with the naming of parameters that appears in the CS4070 PRG. This makes it easier for end users to configure and stage multiple scanners when using this CONFIG.INI file.

#### **11. CS4070 Scanner Now Supports the Following Country Keyboards for both Bluetooth HID and Dongle USB HID Keyboard Inputs**

- **Windows North American**
- **Windows Belgian French**
- **Windows French**
- **Windows German**
- **Windows Canadian**
- **Windows Spanish**
- **Windows Italian**
- **Windows Swedish**
- **Windows UK**
- **Windows Japan (ASCII)**
- **Windows Brazil**
- **Windows Swiss German**
- **Windows Swiss French**
- **Windows Simplified Chinese GBK**
- **Windows Simplified Chinese UTF-8**
- **Windows Traditional Chinese BIG5**
- **Windows Traditional Chinese UTF-8**
- **Windows Russian**
- **Windows Russian Typewriter**

NOTE: CS4070 does not support extended ASCII or code pages.

#### **12. Continuous Barcode Read**

This feature allows users to press and hold the plus key to scan multiple barcodes in one scan session. This feature includes the following sub-features.

- o **Unique Bar Code Reporting** : Will ONLY decode unique barcodes in one scan session.
- o **Decode Session Timeout** : Session timeout can be programmed in 0.5 second increments. The default timeout is 5.0 seconds.

- o **Timeout Between Decodes, Same Symbol** : This can be programmed in 0.5 second increments. The default timeout is 0.5 seconds.
- o **Timeout Between Decodes, Different Symbol** : This can be programmed in 0.1 second increments. The default timeout is 0.1 second.

**13. TimeFormat in CONFIG.INI file and 123Scan now has a 3<sup>rd</sup> option to remove time and date stamps in the Barcode.txt batch file**

**TimeFormat=<space>** : In the CONFIG.INI file then there is no time and date stamp stored with batch data in the Barcode.txt file.

In 123Scan choose the Blank option.

**14. Added a new Bluetooth Link Supervision Timeout Feature**

A user can now program a Link Supervision Timeout when pairing and connecting the scanner as Bluetooth Master. A low Bluetooth Link Supervision Timeout helps prevent the loss of data at the edge of the Bluetooth radio range and a higher Bluetooth Link Supervision Timeout helps to decrease lost Bluetooth connections and auto reconnections. See the latest version of the CS4070 PRG.

**15. CS4070 now supports Scan To Connect 2.0**

Scan To Connect 2.0 allows end users to embed a Bluetooth pairing barcode, Bluetooth profile barcode and factory default parameter barcode into one parameter barcode image for easy Bluetooth pairing and connection to a Windows, Android or Apple (iOS) device.

**16 GS1 Data Matrix Barcodes** - CS4070 now supports this symbology. See the latest revision of the CS4070 PRG.

**17 Fast Bluetooth HID Keyboard** :The CS4070 now gives end users the ability to enable or disable this feature for faster or normal Bluetooth HID Keyboard input.

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## Components

(If applicable)

Component	Location

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## Installation

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## Late Additions

1. **Late Addition Number One** - Each late addition item must have a name in bold type; for example "New Print API", followed by a description. The name will help a user find a particular late addition, especially when this section grows to many items.
2. **Late Addition Number Two** - Late addition items are used to deliver information to the user that did not make it into the Product Reference Guide or the Quick Reference Guide.

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Last revised: Month Day, Year

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