



CRA-A271 Firmware Read Me

Version 3.3.0

CRA-BTDG27 Firmware Read Me

Version 3.3.0

July 2025

Associated firmware file versions CRA-A271		Associated firmware file versions CRA-BTDG27	
Firmware	3.3.0	Firmware	3.3.0



******* PLEASE NOTE: *******

- This readme file contains information about the latest version of the CRA-A271 and CRA-BTDG27 firmware.
- Support for all Code products is available from Code website at: www.codecorp.com
- If you have technical questions, please contact support@codecorp.com



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1. NEW FEATURES IN THIS RELEASE

Version 3.3.0

- Support for BTDG27 USB-C Dongle.

2. ENHANCEMENTS/IMPROVEMENTS/FIXES

Version 3.3.0

- Removed “S” support for BTBR_BA. This is already being saved to flash with a “P”.

Version 3.2.1

- Ability to connect two or more devices to a single computer via VCOM by enabling BTUB_SN. This sets the USB descriptor in VCOM to the chips serial number, allowing for more than one device to be connected in VCOM.
- Saved settings take priority over platform settings, this matches new reader behavior
- Fixed an issue where only one setting could be saved
- Removed support for nordic-based capacitive touch firmware
- Fixed an issue with VCOM enumeration not being properly sent to the reader
- Added Beacon payload protocol
- Set max USB pwr to 500 mA
- Fixed manufacturing issue where MAC address could be reset to a default value

Version 3.1.3 (A271 only)

- Removed support for hardware without the capacitive touch sensor. (CRA-A271)

Version 3.1.1

- Added support for CR2700 Batch Mode (CRA-A271)
- Added support for detecting if the base is enumerated, having the reader error beep if the base can't send data to the host
- Added setting for changing the product ID of the reader when in USB VCOM mode
- Fixed an issue where IBM POS was outputting incorrect data
- Added additional support for improvements to the capacitive touch paging button
- Added additional testing features for manufacturing

Version 2.4.0

- Fixed issues with base keystroke delays
- Added ability to set platform settings
- VCOM Support (Requires CR2700 2.3.1 minimum firmware version)
- IBM POS Support (Requires CR2700 2.3.1 minimum firmware version)
- USB CDC Support (Requires CR2700 2.3.1 minimum firmware version)

Version 2.0.2

- Improved charging reliability
- Added support for USB HID POS (surePos)
- Updated Radio SoftDevice

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code

- Fixed issue when sending data from a JavaScript with a 500ms delay the base would lock up
- Fixed issue where caps locks would freeze the base when transmitting non alpha numeric characters
- Fixed issue where Inter-ScanCode delay could not be set
- Fixed issue when Inter-Character delay was set, output could be doubled
- Fixed issue where reader might not reconnect to base after scanning a CFR configuration barcode.

Version 1.3.5

- Fixed issue where caps lock enabled on the host machine resulted in incorrect barcode data

Version 1.3.4

- Reduced firmware upgrade complexity by supporting one file upgrades
- Added ability to retrieve chip revision
- Support for HID POS
- Initial Release of CRA-BTDG27 USB Dongle

Version 1.2.0

- Added recovery mode
- Changed USB Enumeration with host to indicate bus-powered device
- Enhanced the base CFR to also clear the base connection history
- Improved data transfer reliability involving communication of large amounts of data (e.g. multiple consecutive CFG commands or image transfer from reader to host through base)
- Fixed issue with unexpected base USB re-enumeration when connected to CT2 and a reader disconnects/connects

Version 1.1.1

- Added ability to configure LED blink rate during paging
- Fixed issue where base became unresponsive after more than 10k connections
- Fixed issue where base could stop pairing after many readers were connected
- BLE 5 Secure Pairing

Version 1.0.3

- Programmable customer deployment date
- Supports upgrade through CortexTools2
- Link Lock – A271 to allow connection to only one specific CR2700 Connects to Code CR2700 Reader via Quick-Connect-Code (QCC)
- CR2700 paging via A271 button
- Supports USB Enumeration as a HID keyboard device
- A271 Pre-emptive mode
- Supports BLE connection from CR2700 via scanning Quick-Connect Code (QCC) or auto-reconnect (configurable)
- Wirelessly Charges CR2700

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3. CHANGES TO DEFAULT SETTINGS

Version 3.3.0

- None

Version 3.2.1

- New command BTUB_SN default value 0.

Version 3.1.3 (A271 only)

- None

Version 3.1.1

- None

Version 2.4.0

- None

Version 2.0.2

- None

Version 1.3.5

- None

Version 1.3.4

- None

Version 1.2.0

- None

Version 1.1.1

- None

Version 1.0.3

- None



4. OUTSTANDING ISSUES

Note: Firmware ENHANCEMENTS and OUTSTANDING ISSUES are categorized as critical and noncritical. Critical updates require the user to upgrade firmware and all reader programming guides and manuals.

***** CRITICAL *****

- none

*****NON CRITICAL*****

- IBM POS mode corrupts CFG output
- Usb CDC mode is not supported by cortex tools 3 versions up to and before 2.2.18. It isn't supported in CT2.

5. CONFIGURATION CODES

NEW CONFIGURATION CODES: NONE

Code	Ver	Description

EXISTING CONFIGURATION CODES THAT HAVE BEEN MODIFIED: NONE

Code	Ver	Description

EXISTING CONFIGURATION CODES THAT HAVE BEEN REMOVED: NONE

Code	Ver	Description

6. SOFTWARE/READER TOOL COMPATIBILITY

- Minimum CR2700 firmware 1.1.1 required for CRA-A271 support
- Minimum CR2700 firmware 1.2.2 required for CRA-BTDG27
- CortexTools3 2.1.20.1 is required to upgrade from anything with a major version of 1.x to a major version of 2.x and higher.
- CortexTools3 2.1.20.1 is required to upgrade the CRA-A271 and CRA-BTDG27 from version 1.x to version 3.x and higher
- Minimum of CortexTools3 2.9.89 required for CRA-BTDG27C support

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7. FIRMWARE FILE NAMING CONVENTION

The A271 firmware CRAW file name describes the corresponding platform associated with the file. See the table below for a breakdown of the filename:

Cxxxxxx_<Version>_<Product>.craw

File name part	Description	Notes
Cxxxxxx	Unique Code internal tracking number	This number is unique for all Code firmware/hardware but has no other significance
<Version>	The version number of this firmware in three integers as Major.Minor.Build	Major – A change to this number equates to significant changes such as breaking backwards compatibility
		Minor – A change to this number equates to a change or addition to functionality
		Build – A change in this number equates to an issue fix or some minor change. It is updated for every build of the firmware.
<Product>	The product on which this firmware will run	Currently A271 only (other values reserved for future use)

8. TECHNICAL SUPPORT INFORMATION

You may contact Code at:

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Voice: 801-495-2200
Fax: 801-495-0280

support@codecorp.com

You can track new product releases, software updates and technical bulletins by visiting the Code web page at <http://codecorp.com>.

If you have technical questions, please contact support@codecorp.com

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