

Release Notes – Zebra Battery Charger

FW 2.31

Highlights

This firmware is compatible with four-slot battery chargers featuring a USB-C port for the following families of products:

- TC51 / TC56 and TC52 / TC57 (all variants) – Manufactured on or after 27DEC2022.
- TC22 / TC27 and HC2x / HC5x – Manufactured on or after 02Jan2023

Firmware versions are cumulative to include all previous versions, including security updates, bug fixes, and performance improvements.

Please see device compatibility under Addendum section for more details.

Software Packages

Package Name	Description
ZEBRA_ACC_FW_v23104.ZIP	Firmware Update Package for all battery charger configurations

New Features

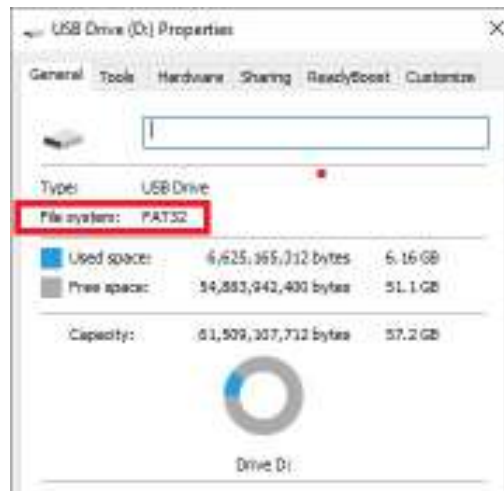
- None

Resolved Issues

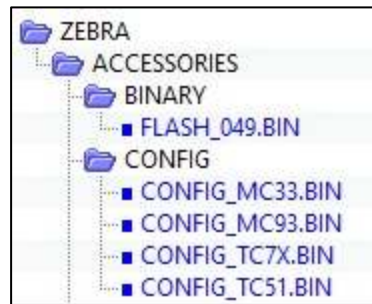
- Resolved an issue where toaster failed to charge critically discharged batteries, indicated by its LED flashing red continuously.

Installation Instructions

1. Plug a USB-C memory stick into a PC/Laptop.
2. Format the memory stick to FAT32 file format as shown below (Note: Not all memory sticks support FAT32 file format. Don't use memory stick with other file formats like NTFS / exFat).



3. Download the Firmware ZIP file from the Zebra support site. Unzip the folder.
4. Copy the folder “ZEBRA” into the root of the memory stick. The file structure will be similar to the image below.



5. Safely unplug the memory stick from the PC/Laptop.
6. Ensure all batteries are removed from the battery charger.
7. Cycle the battery charger’s power by pulling the DC power cord from the back of the charger. Wait 5 seconds, and reinstall the power cord.
8. Remove the rubber USB-C port plug from the USB-C port, and install the USB-C memory stick.
9. The firmware update process will begin automatically. Firmware update process:
 - a. If the battery charger already has the latest firmware present, one charger LED will immediately alternate between green and amber. No further action is required at this time.
 - b. If the battery charger doesn’t have the latest firmware present, the firmware update process will begin immediately. The four LEDs will illuminate, ending with a cycle of amber, green, red, and then will turn off, indicating the charger has rebooted. Once complete (less than 10 seconds), the charger will resume function and one LED will alternate between green and amber.

Note: *If the firmware update has failed, one LED will flash red repeatedly. Reattempt the update process, and if the update fails again, repeat all installation instructions above.*

10. Once complete, the USB-C memory stick can be removed from the charger. To ensure no debris enters the port during use, reinstall the rubber USB-C port plug.

Note: *If desired, the installed firmware version can be confirmed using the Firmware Version Validation steps in Addendum below.*

11. Cycle the battery charger’s power again to ensure it is fully restarted.

Addendum

Device Compatibility

This software release has been approved for use on the following devices:

Product Family	Part Number	Description
TC51 / TC56 TC52 / TC57 TC52X / TC57X TC52AX	CRD-TC51-5SC4BC-01	TC5x 4-Slot Charge-Only ShareCradle with 4-Slot Battery Charger
	SAC-TC51-4SCHG1-01	TC5x 4-Slot Battery Charger
TC22/TC27	SAC-TC2L-4SCHG-01	TC22/TC27 4-Slot Battery Charger
	CRDCUP-TC2L4B-01	TC22/TC27 4-Slot Battery Charger (Cup Only)
	CRD-TC2L-BS11B-01	TC22/TC27 1-Slot Charge Only ShareCradle with 1-Slot Battery Charger
HC20 HC50	SAC-HC2L5L-4SCHG	HC20/HC50 4-Slot Battery Charger
	BTRCUP-HC2L5L-01	HC20/HC50 4-Slot Battery Charger (Cup Only)
	CRD-HC2L5L-2S1D1B	HC20/HC50 1-Slot Charge Only ShareCradle with 1-Slot Battery Charger

Firmware Version Validation

1. To check the firmware version after updating, place the USB memory stick used to update the charger firmware back into a PC/Laptop.
2. In the file explorer navigate to the folder `\ZEBRA\ACCESSORIES\INFO\` and open the text file for the charger type updated.
3. In the text file, the firmware version will be listed. Example shown below:

TC51 4B Toaster Ver:2.31.04 Checksum:80EBDD

Revision History

Rev	Description	Date
1.0	FW 2.31 Release	December 14, 2023