



How do I get the newest Firmware?

Contact the VE Solutions support center either by email (info@vesolutions.co) or by phone (tel: 800 321-2311) and provide the following information:

- Machine model
- Email address

SD Card

Note: Legacy UCBs have an SD card size limit, and depending on what boot loader you are running alongside what hardware you have, you will need to use the correct size SD card when updating firmware.

2 or smaller Gb - 2.0.0 and older

32 or smaller Gb - 2.1.0 and newer

How do I check the Bootloader version?


1. **Enter** programming mode.
2. Navigate **down** to the “Service” option, then select **right** to enter.
3. Navigate **down** to the “Loader Ver” option.
4. Select **right** to display your bootloader version.

Note: If the loader version displays XXX or ###, The firmware is unable to be updated. Contact the VE Solutions support center for support.

How do I update my UCB’s firmware?

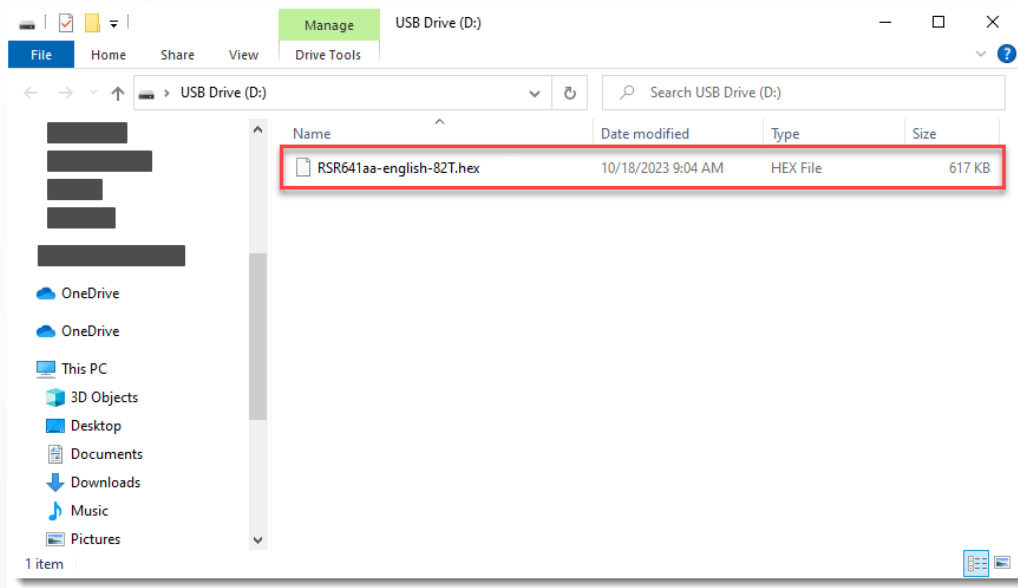
Note: It is recommended you reformat your SD card to FAT 32 before installing a new firmware version.

If the Firmware file is zipped, extract the .hex onto your SD card.

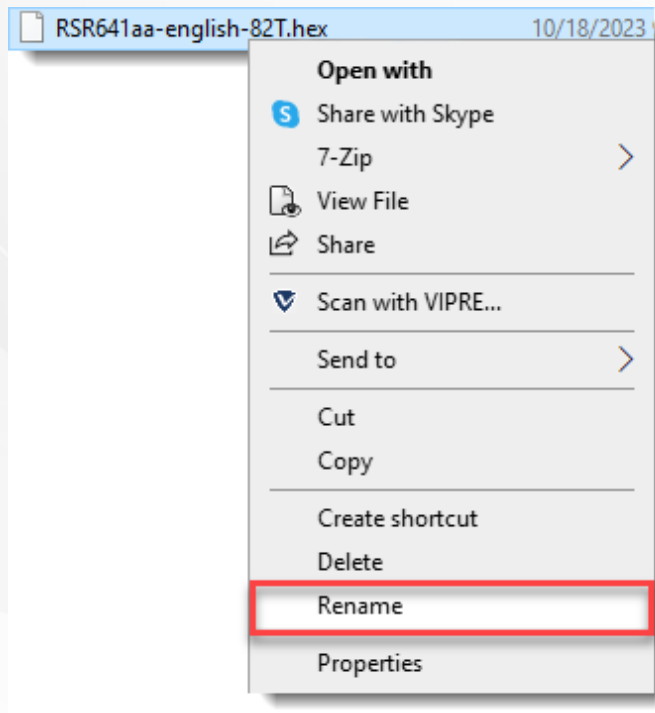
 RSR641aa-english-82T	12/14/2023 8:45 AM	7z Archive	144 KB
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1. Drag the UCB Firmware file onto your SD card.



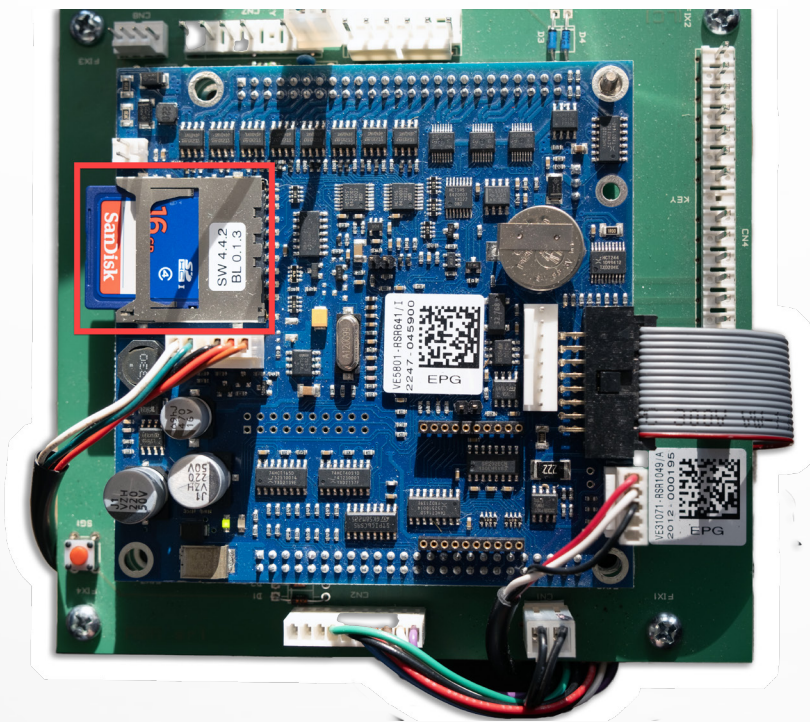
2. Rename the file to "RSR641aa.hex" excluding the double quotation marks.



3. Power down your vending machine



4. Insert the SD card into your UCB SD slot



5. Power up your vending machine. At this point, your machine will go through the Checking, Loading, and Resetting phases.





New Board Configuration

New boards may be prompted to make the following selections on display after a firmware update. It is recommended to make the following selections:

- FWINIT – YES or NO. We recommend **YES**, but the entire machine must be set back up. If NO is chosen, please test vend & check program settings. The next three steps can be ignored if NO is chosen.
- INIT CONFIG – YES or NO. We recommend **YES**.
- INIT PRICES – YES or NO. We recommend **YES** to clear prices.
- INIT DEX – YES or NO. We recommend **YES**. Selecting yes will clear your DEX data.
- Continue to **step 1** of the **Existing Board Configuration** section then jump to **step 6**.

Existing Board Configuration

When updating your firmware, it is recommended to perform a complete board reset and DEX initialization. While not mandatory, failing to do so may result in unexpected behavior.

Preparation: Ensure the UCB is powered and in a stable setting for programming.

Steps:

1. **Access Programming Mode:**
 - Press the programming button.
 - The display should read “Audit Data”.
2. **Begin Initialization:**
 - Enter `13931` on the keypad.
 - After hearing a long beep, press `91111`.
 - The display will change to “Init Config: No”.
3. **Configure Initialization Settings:**
 - Change “No” to “Yes” by pressing `3` on the keypad.
 - Confirm by pressing the enter key.
 - The display will update to “Init Prices: No”.
4. **Repeat for Price Initialization:**
 - Change “No” to “Yes” by pressing `3` on the keypad.
 - Confirm by pressing the enter key.
 - The display will then read “Init DEX: No”.
5. **Complete DEX Initialization:**
 - Change “No” to “Yes” by pressing `3` on the keypad.
 - Confirm by pressing the enter key.
 - After this, the display will revert to “Audit Data”.



6. Finalize Full DEX Configuration:

- Enter `93139` on the keypad.
- The display will show “Full DEX No: No”.
- Change “No” to “Yes” by pressing `3` on the keypad.
- Confirm by pressing the enter key.
- Confirm your selection
- The display will return to “Audit Data”.

7. Custom Configuration:

- Program the UCB with necessary prices and configurations as needed.

Outcome: This procedure resets the UCB to factory settings and configures all PA fields in DEX, optimizing the UCB’s performance for field deployment.

IMPORTANT

After updating, review the programming to ensure it matches your intended settings.

If you have additional questions about updating your UCB firmware, please contact an Account Representative at 1-800-321-2311 or locally at (216)432-1800.