

EG4[®] FLEXBOSS SCREEN KIT FIRMWARE UPDATE GUIDE

The intention of this document is to walk the end-user through the LCD firmware update for the FlexBOSS Screen Kit. To update the screen firmware, follow the steps below:



NOTE:

The callout numbers correlate to the steps taken.

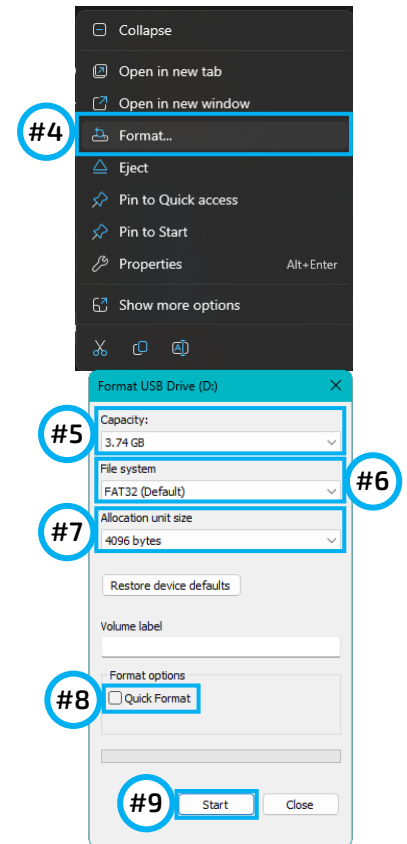
FORMATTING THE FLASH DRIVE

Verify the flash drive is ≤16GB for file system compatibility.

1. Plug in the USB drive to a Windows computer.
2. Navigate to “File Explorer”.
3. Locate the USB drive location in the left side pane of File Explorer.
4. Right-click the USB drive and select “Format”.
5. The capacity should reflect the size of the USB drive automatically, but if not, verify “Capacity:” is set to 2, 4, 8, or 16GB.
6. File system: Set to FAT32.
7. Allocation unit size: Set to 4096 bytes.
8. Deselect the “Quick Format” checkbox.
9. Select “Start”.

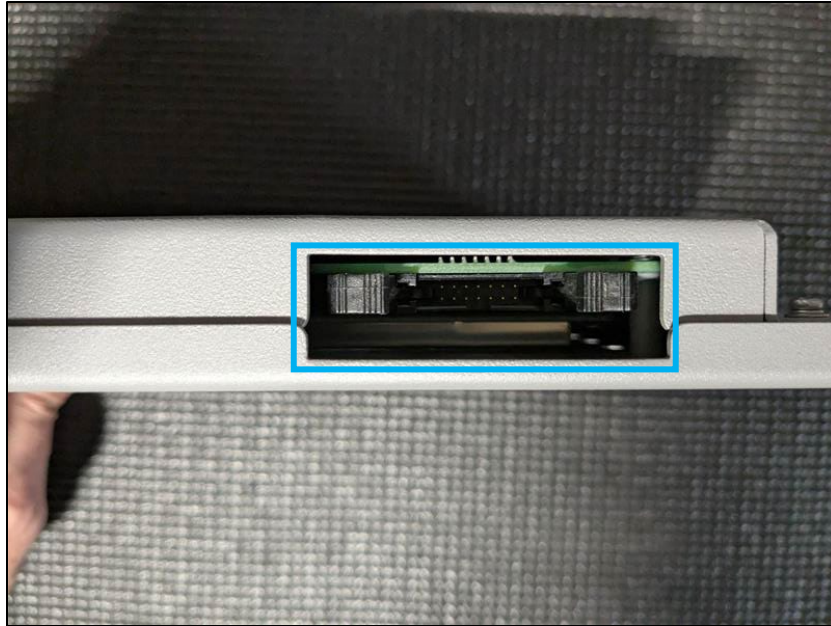
DOWNLOADING AND UNZIPPING

1. Download the latest FlexBOSS LCD Version Firmware from the FlexBOSS Screen Kit product page on eg4electronics.com.
2. Once downloaded, right-click and unzip the downloaded file to the desktop.
3. Once unzipped, open the folder located on the desktop.
4. Select the “DWIN_SET” folder and copy it.
5. Navigate to the USB drive through File Explorer.
6. Paste the “DWIN_SET” folder to the USB drive.
7. Safely remove the USB drive from the computer.



INSTALLING THE UPDATE

1. Turn off the inverter load breaker, grid breaker, and PV switch. Then, turn off the inverter battery breaker, followed by each battery in the system one at a time.
2. Once the system is powered down, connect the ribbon cable to the top connection on the LCD screen.



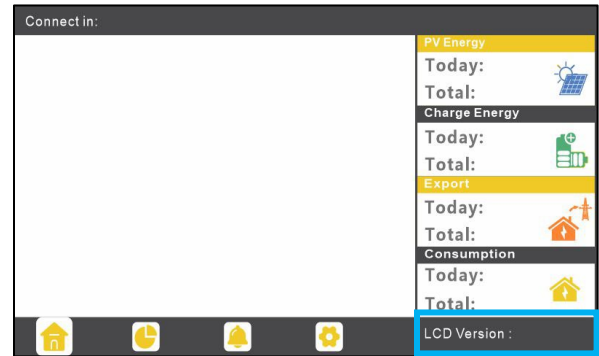
3. Plug the USB drive into the USB port on the left side of the LCD screen.



4. Power on the inverter and batteries, starting with turning on the inverter battery breaker. Followed by each battery in the system, one battery at a time. Then turn on the PV switch and the AC breaker, if applicable. Do not turn on the Load breaker at this stage, as output power is not needed for the LCD firmware update.
5. When the inverter is powered on, the update should begin automatically. The unit will display the start-up screen for several minutes while applying the update.
6. After several minutes (~3), the screen will restart itself and will then point to the standard home screen.
7. To safely remove the USB drive, repeat the steps to power off the inverter and each battery in the system.
8. When the inverter and batteries are powered down, remove the USB drive from the LCD screen.

UPDATE VERIFICATION

1. To verify the update went through successfully, power the system back on.
2. Start with turning on the inverter battery breaker, followed by each battery in the system one at a time, starting with the master battery. Then turn on the PV switch and AC breaker, if applicable. Output power is not necessary for checking the firmware update, but the Load breaker can be turned on to resume normal operation.
3. Once the system is powered on, the user can check the LCD Version number in the lower right-hand corner of the display, or on the Device Info. Screen. The version number will increase if the update is successful.



CHANGELOG

Ver. 1.0

- Published document