Copy files to root directory of microSD card (filesystem FAT32), insert into On-board computer (contacts on top) and run the update process.

⚠️ **Do not downgrade firmware that was installed from the factory! You may get a brick**

Each device has its own firmware and is updated separately from different menus. The order in which the firmware is updated does not matter.
1. Description of the On-Board Computer update menu.
2. Description of the Controller update menu.
3. Description of the Microlight controller menu.

To check the current firmware version, go to the **Device Information** menu, each device has a separate menu.
1. Information about the firmware version of the On-Board Computer.
2. Information about the firmware version of the Controller.
3. Information about the firmware version of the Microlight controller.

The list of actual firmware to be downloaded:

| Display | Controller | Release notes |
|---------|------------|---------------|

| | | |
|---|---|---|
| **v0.60B** ⬆️<br><br>Fixed throttle drop.<br>Small menu fixes.<br>LEVCAN updated.<br>Button setup simplified, by default all set to CAN mode.<br>Added exFAT support (but display still can be updated only from FAT32).<br>Added charge screen.<br>Added fast statistics type selection.<br>Added wider event window.<br>Mph stats fixed. | **v0.7.18** ⬆️<br><br>Experimental logger added.<br>Fixed many charger glitches, however still have few.<br>Added soft start to charger and more safe phase detect.<br>Completely reworked field weakening, now should not have any hard braking after release.<br>Added minimum speed reference for speed PID.<br>Added RC PWM control on P1 port (throttle/brake).<br>Added more logger parameters.<br>Few important FOC control fixes, DC current should be calculated better under field weakening.<br>Fixed one weird ultra-rare bug in square mode.<br>LEVCAN operates on queues now, log time 2x faster when display updated.<br>Decreased DCi Ki default from 500 to 200.<br>Slightly decreased FW start point.<br>Added full debug info export.<br>Added logger mode selection and tuned logger start.<br>Removed first line from log for easy datazap upload.<br>Throttle / brake curves added (8 point configuration) with presets.<br>PAS extra scale added for additional modes.<br>Soft acceleration for cruise added, more shutdown triggers.<br>Cruise logic updated - phase current limited by selected mode, not throttle position.<br>Minimum cruise speed - limits cruise activation.<br>Cruise increment/decrement - control cruise speed with buttons ( port = CR+/CR-)<br>Cruise restore - recovery last saved cruise speed with button, activated only above min cruise speed. (port = CRr)<br>Power limit added to modes and battery configuration. 0 = power limit disabled.<br>Small menu fixes.<br>CAN inputs increased to 16.<br>Parameters export / import fixes.<br>12V shutdown fix. | 31 August 2020<br>Use configuration export before update, reset defaults after update and import configuration. |

| v0.59B ⬆ | | 18 March 2020<br>HOTFIX for display speed sensor |
|---|---|---|
| v0.58B ⬆<br>Fixed 0V throttle issue.<br>Fixed charge statistics reset.<br>Added kmh/mph switch.<br>Added more parameters to info. lines on main screen.<br>Added hotkey mode for compatibility with controller speed functions.<br>Fixed contrast setting.<br>Added driving range, calculated from WH usage.<br>A lot of tiny fixes. | v0.7.12 ⬆<br>Torque PAS fixes<br>Fixed configuration import for advanced modes<br>Added configuration selector from 1 to 9<br>Import will show first line of configuration, you can put a comment here<br>Fixed N mode<br>Fixed motor wiggle at charger mode<br>Added more debug information | 11 March 2020 |
| | v0.7.9 ⬆ | 21 Nov 2019<br>HOTFIX, fixed NaN error for analog inputs. |

| v0.57B ⬆ | v0.7.8 ⬆ | |
|---|---|---|
| CAN buttons setup<br>Inverted inputs setup<br>Statistics reworked<br>Added filters for analog inputs | Big menu update<br>Control logic completely reworked for future compatibility with BMS<br>New default values for PIDs<br>DC-DC low voltage difference charge fixed<br>Inverted brake input added<br>Specific setup for 3 positional speed switch added (can work now as 1-2-3)<br>Button/switch select for usual speed select input<br>Save CRC calculation fixed<br>New speed mode - neutral<br>Speed increment and decrement added<br>Added t-sensor NTC 10k B:3380<br>Reboot command added<br>Fixed field weakening over 126%<br>Fixed VBUS measuring, now it is at PWM frequency, significantly improved overvoltage protection<br>Added median VBUS filter<br>Added averaging of N-X ADC samples filter for throttle and brake<br>Fixed brake glitches<br>Current measuring fixes for better measuring on 6F board<br>When enable button configured controller will not turn-on anymore when power applied<br>Autodetect improved, more informative, short-circuit detect added and timeout fixed<br>Added lock-at-turn-on, will lock throttle untill password on-screen is entered<br>Voltage on phases detect added, will lock controls<br>UVLO added<br>Added "Advanced modes" menu with more specific options per mode<br>Personal throttle protection lock for CAN source or local<br>Motor temperature limit for charger (DC-DC) | 20 Nov 2019<br>Export configuration (or make screenshots), after controller update do "Erase data storage" and reboot. Configuration will not be imported fully, some values will need to enter manually. |