**MCL360 MICROPROCESOR UPGRADE INSTRUTIONS**

Required elements:

 Atmel\_ICE programmer box.

 Microchip Studio Suite and drivers installed in the computer.

 SmartCom software for PC and Android App.

 MF232 serial cable for Lantern programing.

INSTRUCTIONS.

1. Open the lantern from the top part and remove the power cable in the flasher.
2. Select the DIP-1 in ON position for firmware upgrade.
3. Plug the programmer flat cable connector in the Flasher upgrade port “BOOT”. Pay attention to the circuit marks for the position cable/socket.
4. Connect the power supply cable to the flasher circuit.
5. Select in “Tool” your Atmel\_ICE programmer box connected in the computer.
6. Select the flasher microprocessor Device in the List:

MCL360 MICROPROCESOR MODEL: ATSAML21J18B.

Interface SWD.

1. Press “Apply” to connect PC with the flasher and press read to check if the 3.3V is present in the circuit.
2. Select “Memories” and find the new firmware file in your computer. Press “Program” to start the process. Select Erase and Verify options:



****

After finish the verifying process will display a confirmation message as the screen.RE

1. Remove the power cable to the flasher and select DIP1=Off for normal operation.
2. Disconnect the programmer box from the flasher “BOOT” port.
3. Plug again the power supply cable for start the normal operation in the lantern.

PROGRAMING AND TESTING PROCES

1. Use the software SMARTCOM in your computer or Android for configure and test the lantern.
2. Check in Status the Firmware version in use to confirm the upgrade process success.
3. Check and program the lantern according to your requirements following the instruction in the SmartCOM User Manual.

MICROCHIP LINK:

https://www.microchip.com/en-us/development-tools-tools-and-software/microchip-studio-for-avr-and-sam-devices#Downloads