

MCL360 MICROPROCESOR UPGRADE INSTRUCTIONS



Required elements:

Atmel_ICE programmer box.

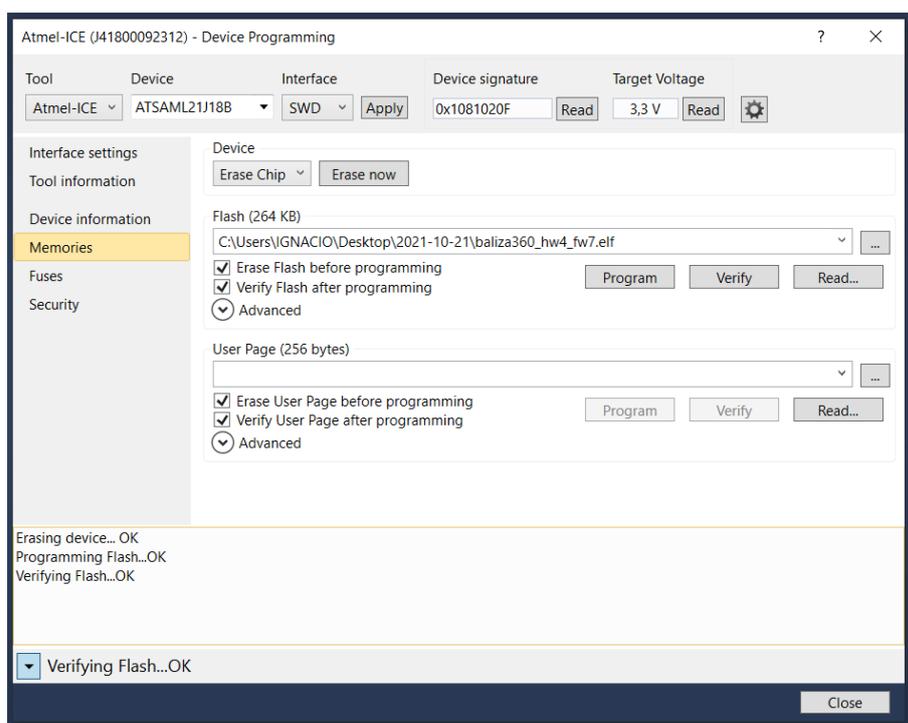
Microchip Studio Suite and drivers installed in the computer.

SmartCom software for PC and Android App.

MF232 serial cable for Lantern programming.

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.
- 7- Press "Apply" to connect PC with the flasher and press read to check if the 3.3V is present in the circuit.
- 8- 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

- 9- Remove the power cable to the flasher and select DIP1=Off for normal operation.
- 10- Disconnect the programmer box from the flasher "BOOT" port.
- 11- 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>