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.
- 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:

Atmel-ICE (J41800092312) -	Device Programming	? ×
Tool Device Atmel-ICE ~ ATSAML2	Interface Device signature Target Voltage 1J18B SWD × Apply 0x1081020F Read 3,3 V Read \$	
Interface settings Tool information Device information Memories	Device Erase Chip V Erase now Flash (264 KB) C:\Users\\GNACIO\Desktop\2021-10-21\baliza360_hw4_fw7.elf	×
Fuses Security	✓ Erase Flash before programming Program Verify ✓ Verify Flash after programming ✓ Verify ✓ Advanced User Page (256 bytes) ✓ ✓ Erase User Page before programming ✓ Verify ✓ Verify User Page after programming ✓ Verify ✓ Advanced ✓ Verify	Read
Erasing device OK Programming FlashOK Verifying FlashOK		
✓ Verifying FlashOK		Close



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