



AURAL-M2

MCU Installation Procedure

Only for V4r6 board and up



Please note that this procedure apply for the v4R6 board (and up) and a double hard drive kit. You must download the following files before to perform the procedure. The files are available to download in the AURAL User section in our website.

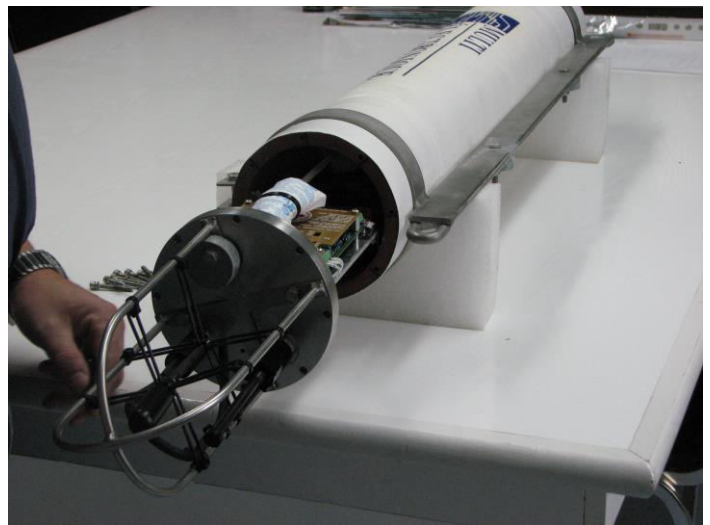
MTK2 (MicroController ToolKit)

-Install the program and follow the steps at the screen.

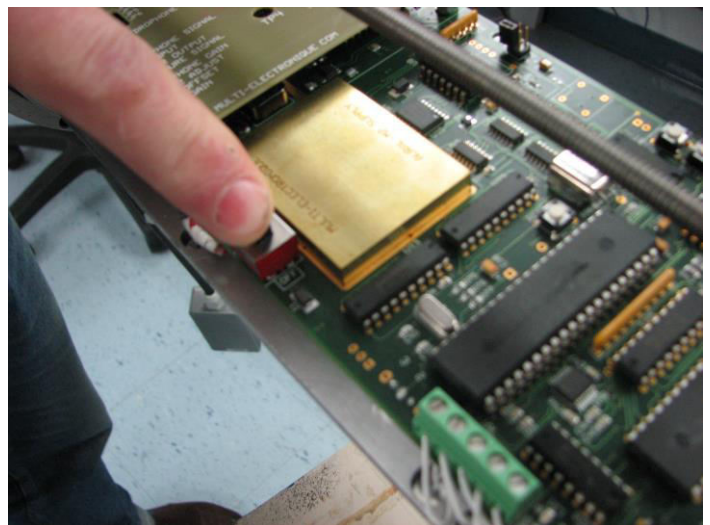
AURAL firmware update

-Extract this zip file using any extracting software like Winzip. It contents the file **M2_4_1_3.HEX** which is the firmware update.

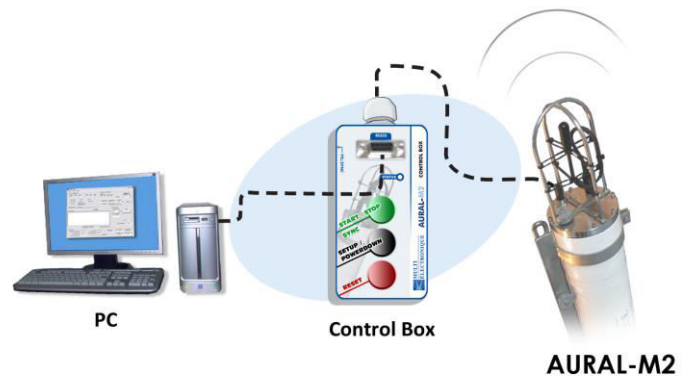
1. Open the AURAL to get access to the board section



2. Turn OFF the unit



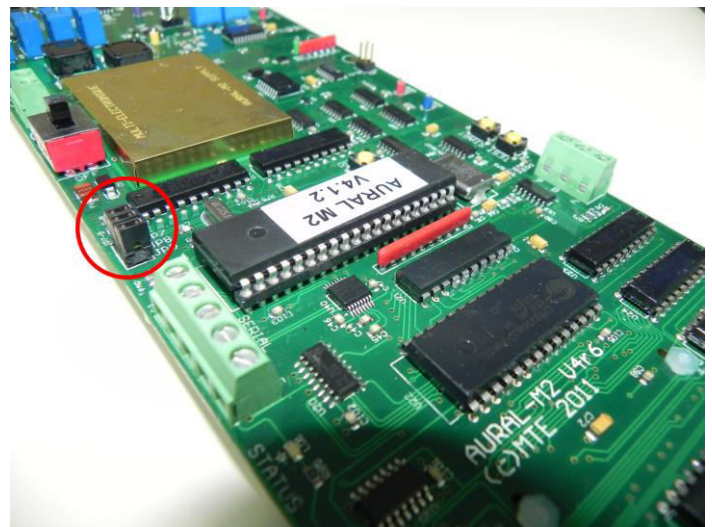
3. Use the Control box and the RS232 cable to connect the AURAL to a PC



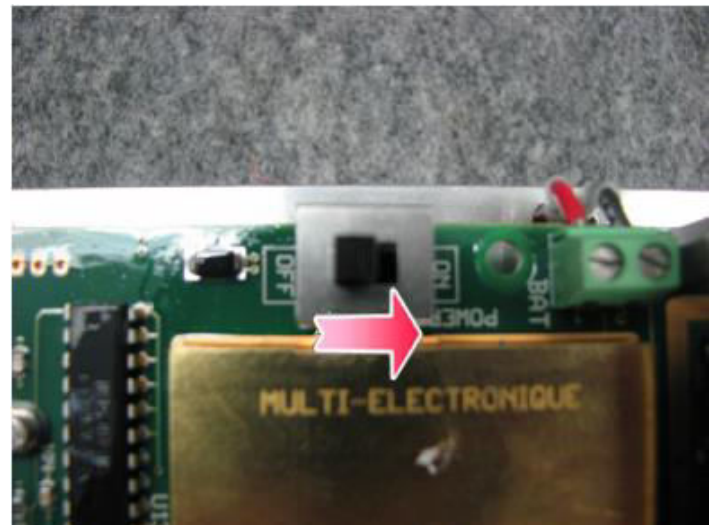
4. Install a jumper on JP7, JP8 et JP9

You can find jumper in any electronic shop.

You can also use jumper installed on AURAL that are not in operation. If you use AURAL jumpers, note that you will have to put them in place later.



5. Turn ON the device



6. Run MTK2.exe
(Located on Desktop or Start > Program > Dallas Semiconductor > MTK2.exe)

Make sure all programs are closed before open MTK2.



Select device DS89C450 on the list on the screen and click OK.

7. Go to Option > Configure Serial Port
PORT : select the com port you are using (ex : COM1)
SPEED : 9600 (by default)



8. Go to: Target > Open COM1 at 9600 baud



Current Status

9. Go to : Target > Connect to Loader



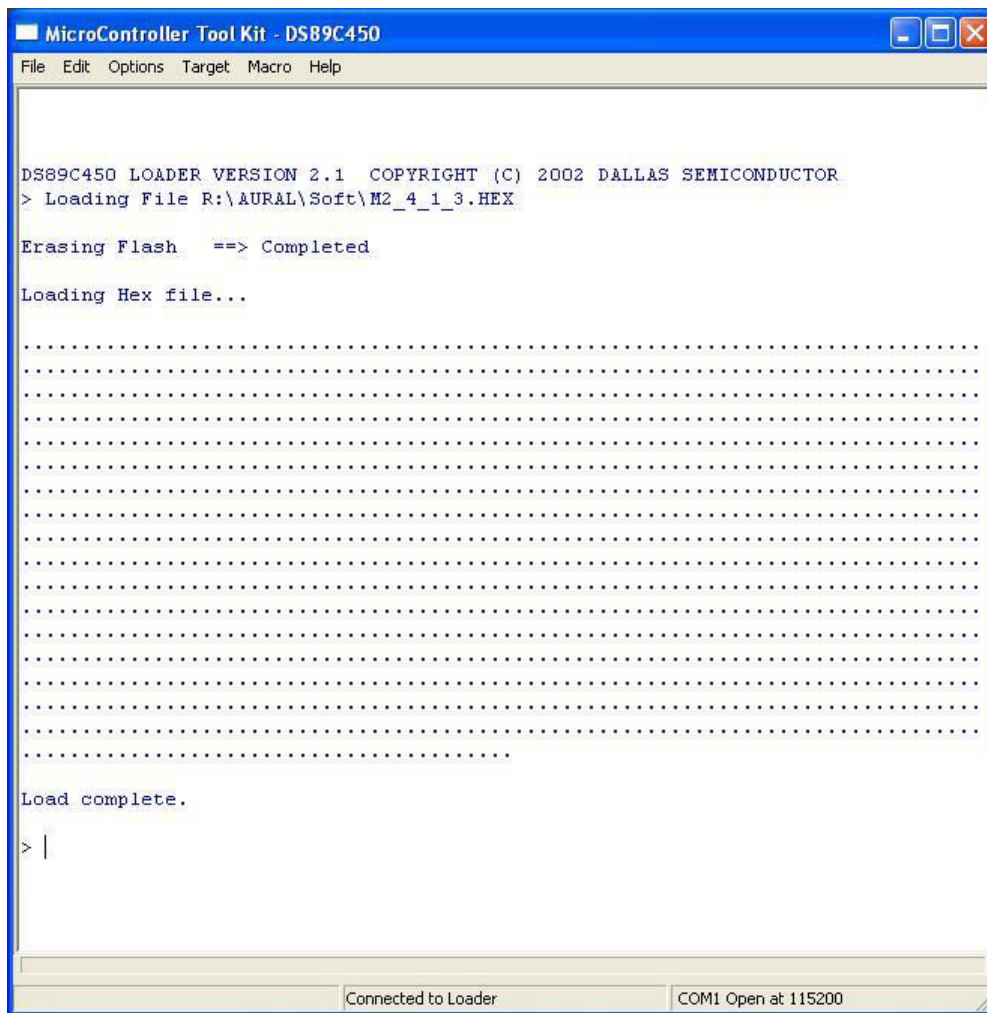
Current Status

10. Go to: File > Load Flash

Browse and load the M2_4_1_3.HEX file that you have downloaded previously.



11. Click OK and wait a few second for the sequence to complete



12. When the Loading sequence is complete, you can close the window

TROUBLESHOOTING

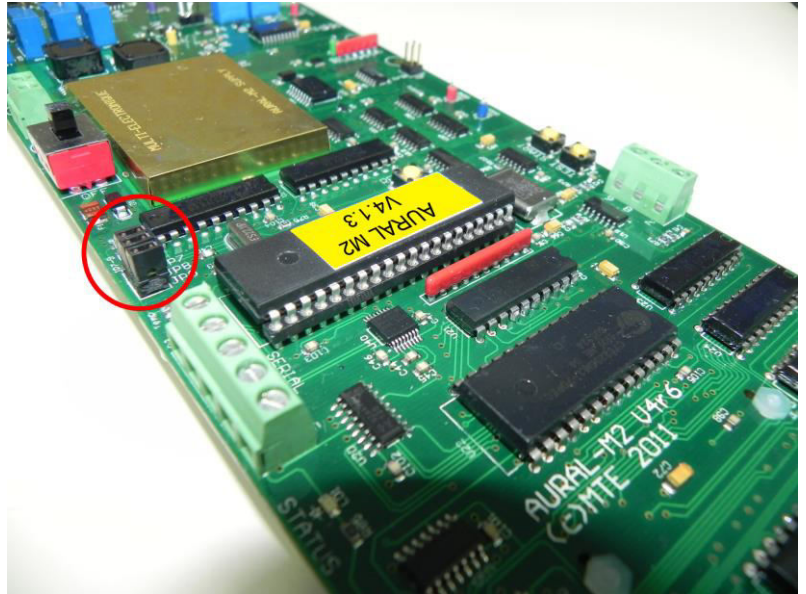
MTK2 does not connect?

- Check if the jumpers are well installed
- Verify that you have selected the correct COM Port

13. Remove jumpers on JP7, JP8 and JP9

Replace the jumpers at their place if they are from another AURAL.

Do not forget to identify the new version program of the chip (v4.1.3). You can use any sticker. This will prevent any further confusion.



The MCU firmware update procedure is now completed.

To make sure the MCU firmware update procedure succeed, you can use AURAL Setup.

1. Open AURAL Setup
2. While holding the SETUP button of the control box, turn ON the AURAL to enter in Setup mode.

The AURAL version number is displayed in the box « AURAL V.N. »

Make sure 049C appears after the version number.

This is a CRC the software has generated during the installation.

