

Instruction to upgrade board firmware

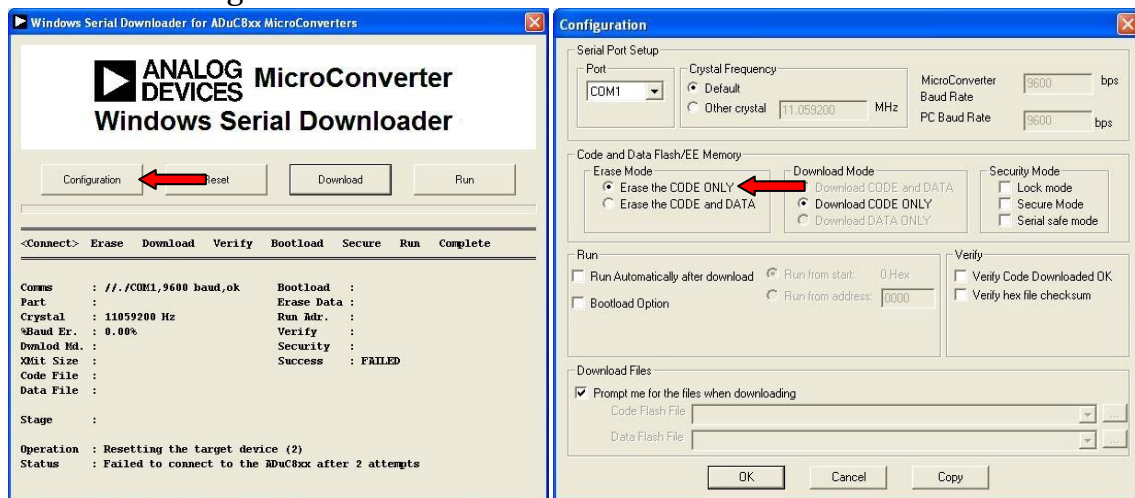
on airpointer[®] v2
with BoardConfig

Material needed:

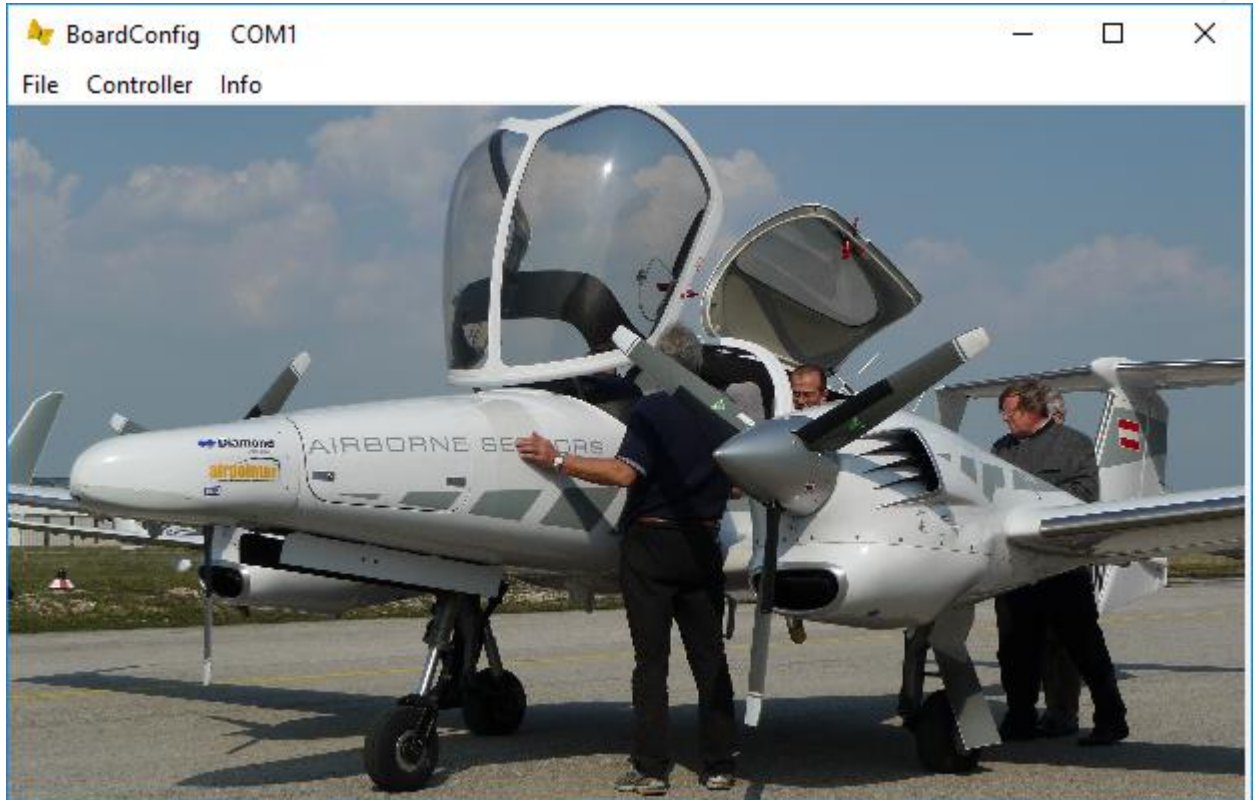
- Laptop with RS232 connector (or with tested USB-RS232 converter)
- Actual Windows version (XP is NOT supported)
- Straight RS232 cable
- Jumper or probe tip to short-cut jumpers
- Installed WSD on laptop
- Installed BoardConfig on laptop
- Patch-files for boards

Software installation:

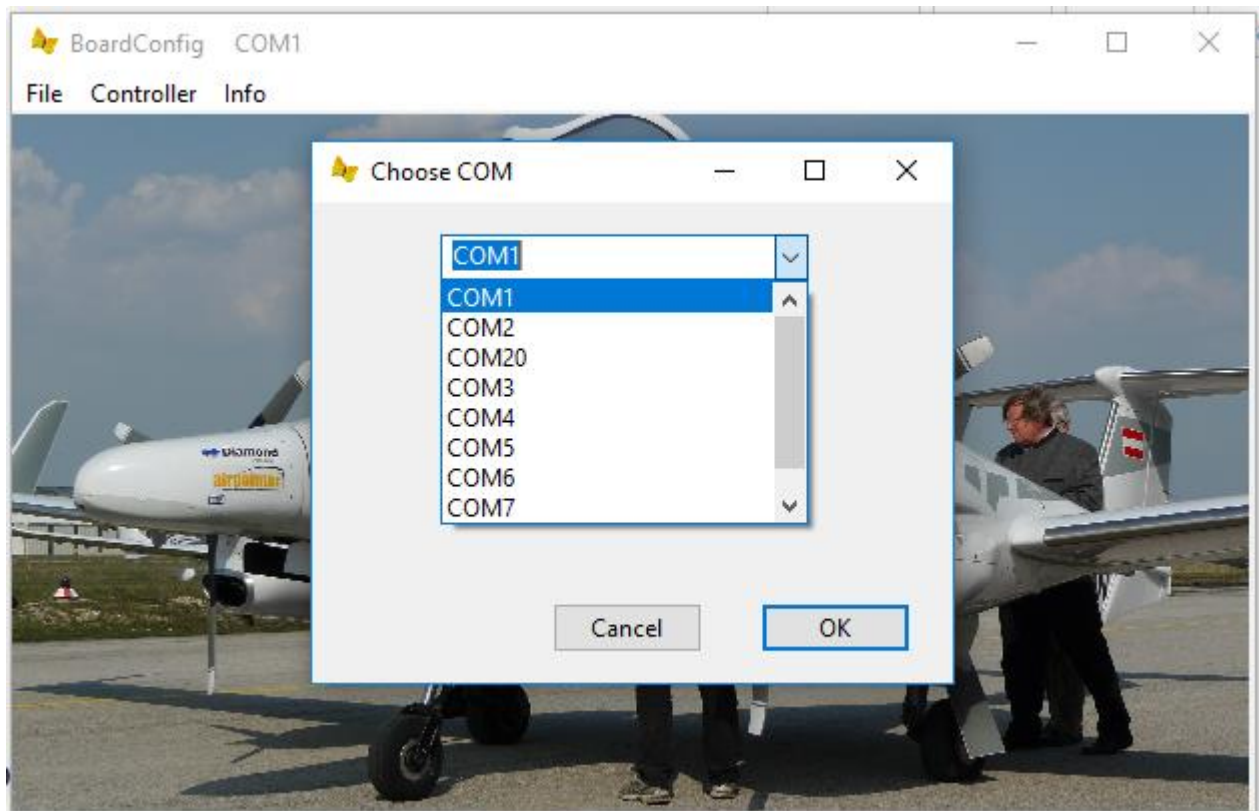
- Install WSD (actual version 7.05) on your computer
- Start WSD
- Click the “Configuration” button and set “ERASE CODE ONLY”



- Download BoardConfig here: <http://www.airpointer.tech/>
- Store it on your Windows Computer (XP is not supported)
- Start it up:



Under file you can setup the Com port of your windows computer you want to use:

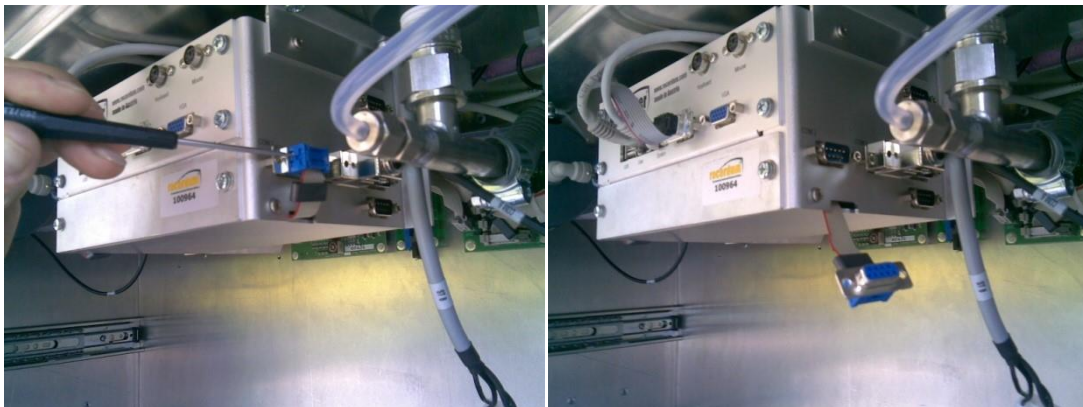


Hardware preparation:

- Shut down the airpointer and switch it off.
- Disconnect ST8 from the Connect Board



- Disconnect the flat cable on COM2 from the airpointer PC



- Connect a straight cable on the RS232 interface of your computer and the other end on the cable you disconnected from COM2 on the airpointer PC

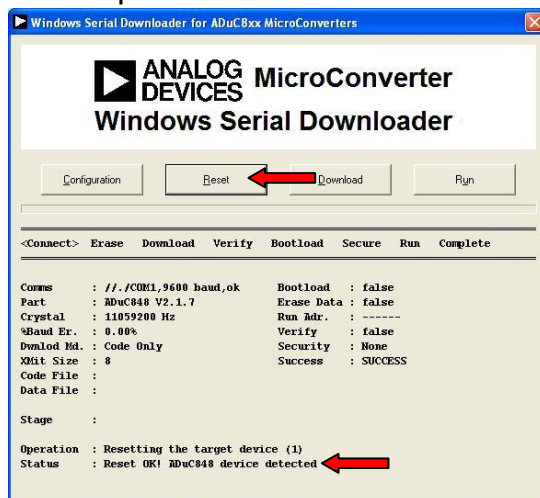


- Short circuit JP1 (in our example we are upgrading a Sensor Interface 2 board on a SO₂ module) and switch on the airpointer to enter the programming mode of the board. You can confirm this by checking that the LEDs next to the switch are not flashing. You can disconnect the jumper's short circuit when this is confirmed.

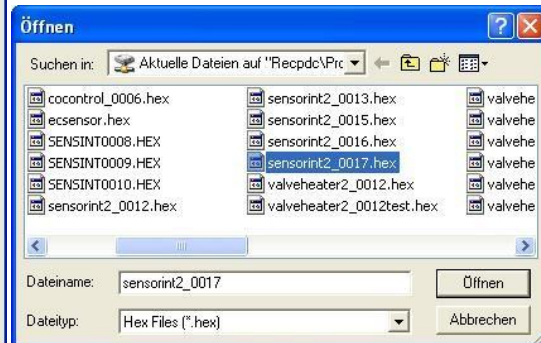
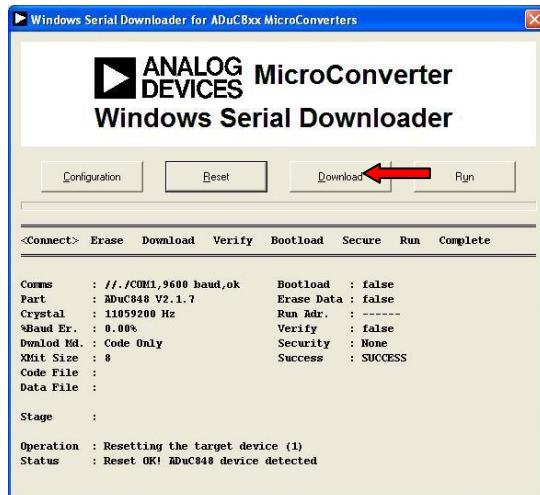


Firmware upgrade:

- Start WSD
- Press “Reset”. If a board in programming mode is detected you will see “Reset OK! ADuC848 device detected”.



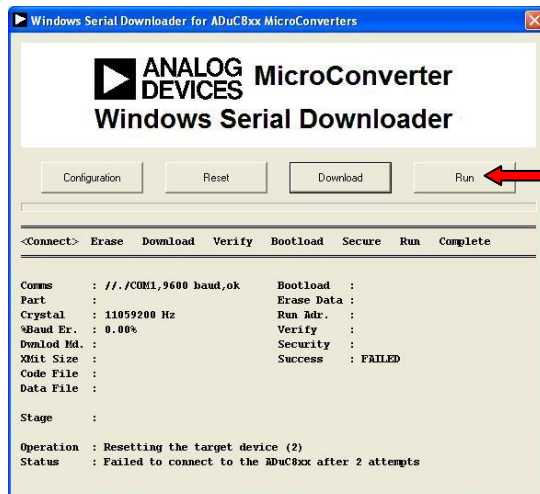
- Press download to open the explorer and select the correct patch (in our case a Sensor Interface 2 board)



- After a successful installation you will receive a “Success” message:



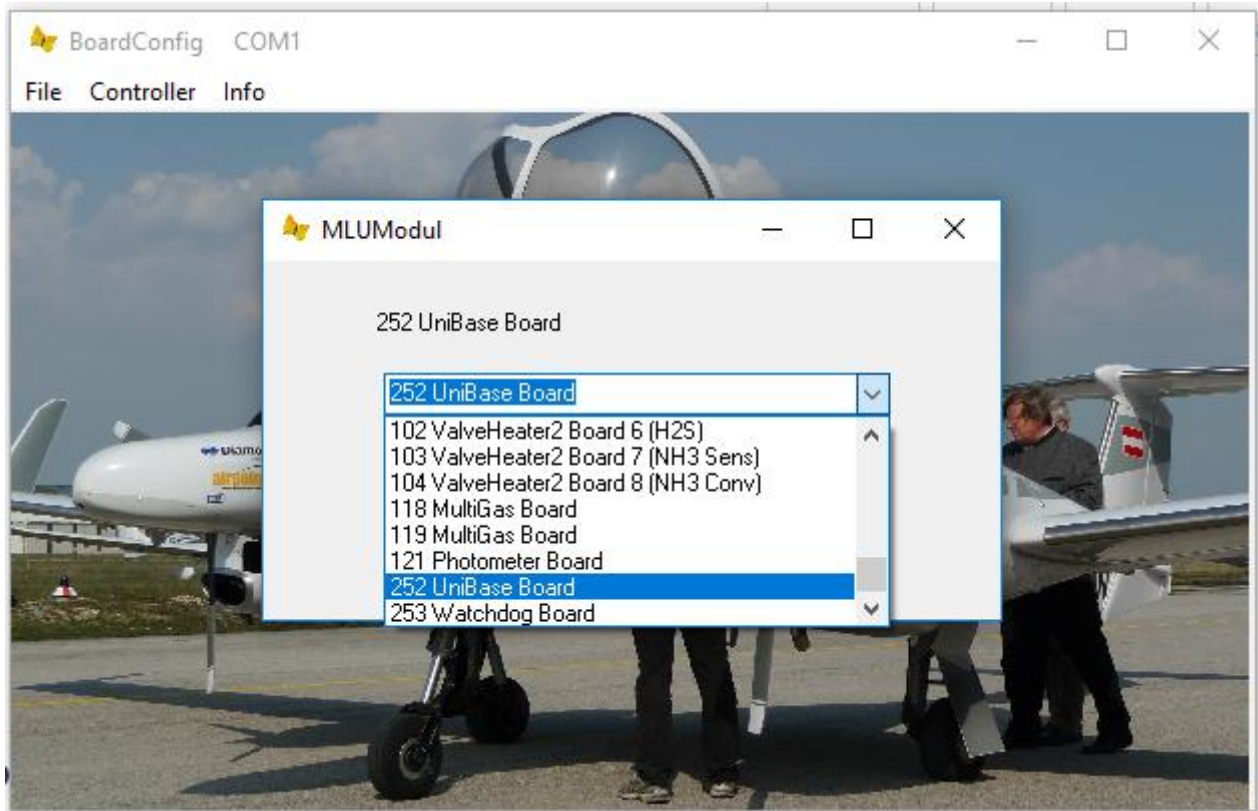
- Press “Run” to activate the board and leave the programming mode.



To upgrade more than one board’s firmware, you need to switch the airpointer off, shortcut JP1 on the next board and switch it on again.

Board Configuration Update:

- Start BoardConfig
- Click “Controller” to enter get the drop down menu for the board’s control parameter



Please be careful to select the correct board type – especially ValveHeater / ValveHeater2 and SensorInterface / SensorInterface2 – and the correct parameter for the module. Otherwise the control parameters will not be correct.

- The window that pops up reads out the parameters from the board. There you can type in the SN and Rev of the board in case it is lost (IMPORTANT: A wrong Rev will result in wrong control parameters).
- By clicking “write to controller (all)” you are overwriting the control parameters stored in the board with the new configuration parameters.

SensorInterface2 1 Interface Address: 081

Setup for Board Nr **1** Heater **0**
Heater 0 not used

AnalogIn

Nr	Name	Range	SF	Average
1	Analog In 1 not used	7	128	1
2	Analog In 2 not used	7	128	1
3	Analog In 3 not used	7	128	1
4	Analog In 4 not used	7	128	1
5	Analog In 5 not used	7	128	1
6	Analog In 6 not used	7	128	1
7	Analog In 7 not used	7	128	1
8	Analog In 8 not used	7	128	1
9	Analog In 9 not used	7	128	1
10	Analog In 10 not used	7	128	1

SerialNr.:
A

SN+Rev write to controller

HWPS on
 O3Gen/Flasher on
 nc
 nc
 Digi_D
 Digi_C
 Digi_B
 Digi_A

S0081 00000000

send SO Command

Cycle time: 1688 msec

Default settings Load from file Store read from controller (all) write to controller (all) write to controller (Test) Close

out: CR081 F 00000 4<013> in:
out: CR081 F 00004 4<013> in: