

Evergrow Technology

How Repair Hardware Boot

Oct 26, 2009

Document Number: PRDM-0028

Reversion: A

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1. Introduction

Evergrow AT4 GPS PND is based on AtlasTM-IV platform.

This document will tell you how to repair Hardware when it can't boot.

2. Hardware Interface

JTAG DEBUG

Atlas IV platform can use COM port and **SIRFSocMgr.exe** to flash Nboot and Eboot. The hardware interface is defined as below:

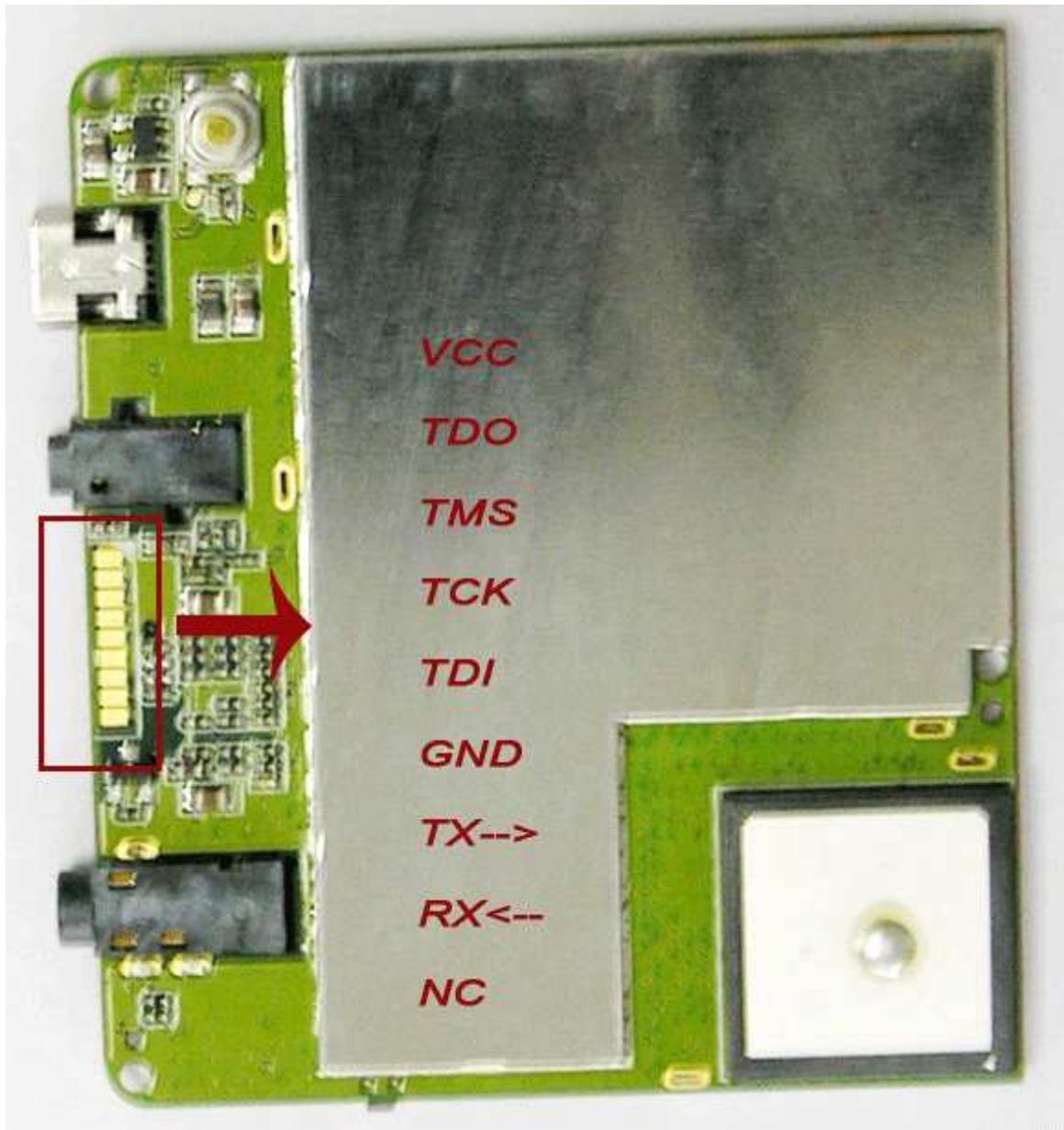


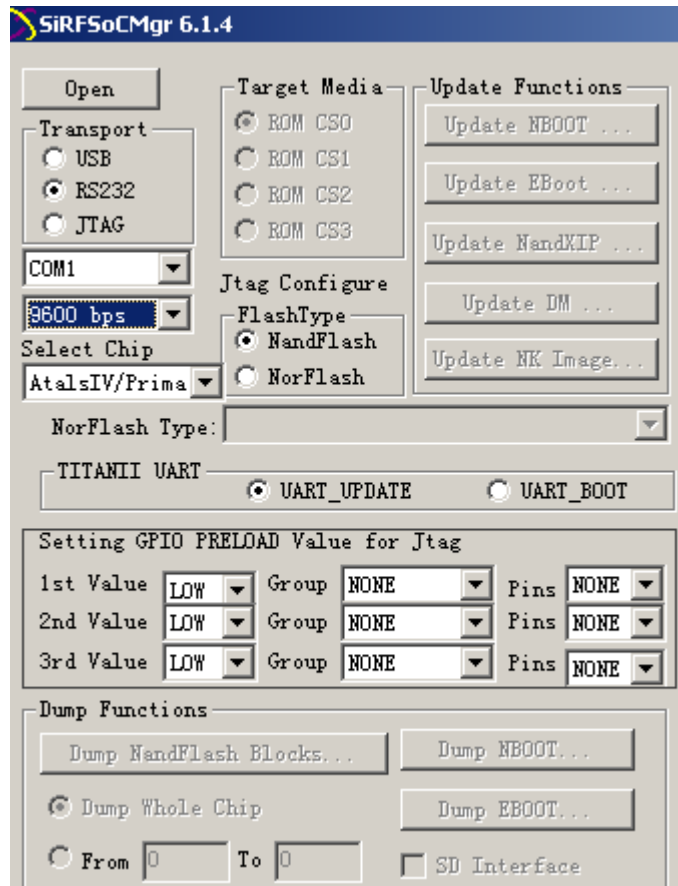
Figure 1

SirFSocMgr.exe

Please use the SirFSocMgr.exe (especially for Atlas IV and later platform)

You can download it from our website or from our technology supporter and FAE.

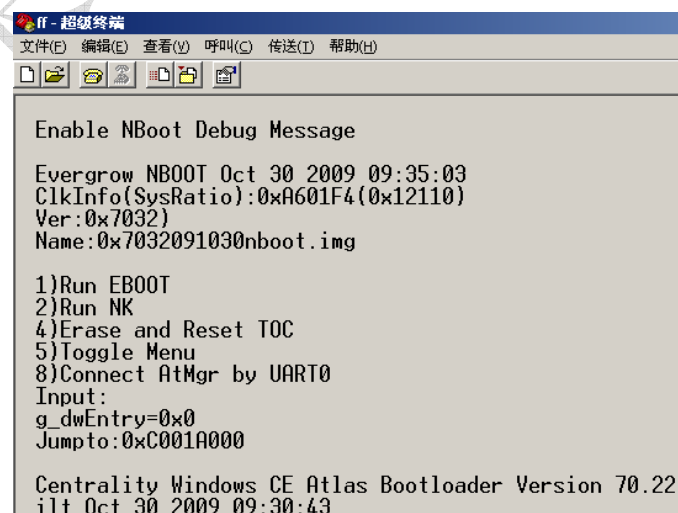
Update Nboot



1. Connect the cables which defined as **<Figure 1>**, you should connect **VCC GND** and **TX** and **RX** pin.



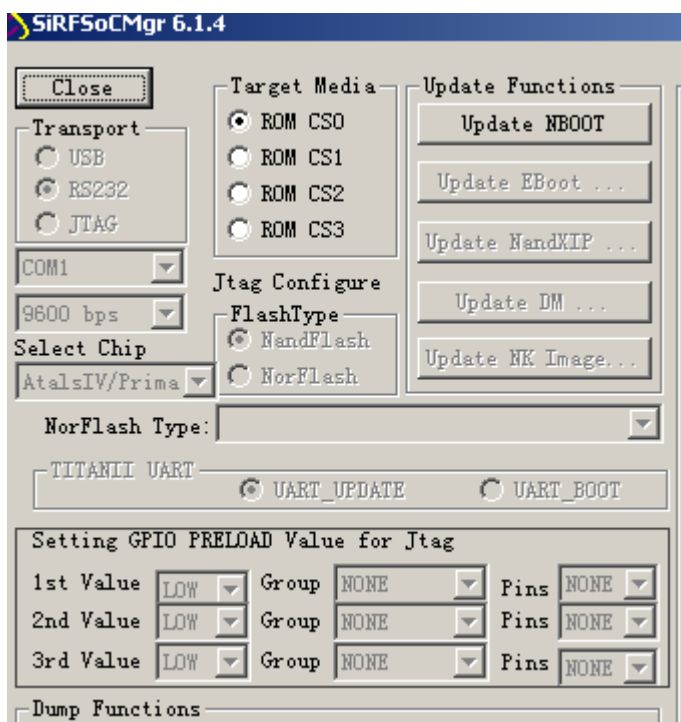
2. Create a terminal communicator , and select COM1 and 115200 without hardware verify. And then **open** it.
3. Power ON GPS and the terminal client will show the output message from GPS.



4. **hold** POWER ON key and press power on or reset button to reboot. The terminal window will **waiting your**

input

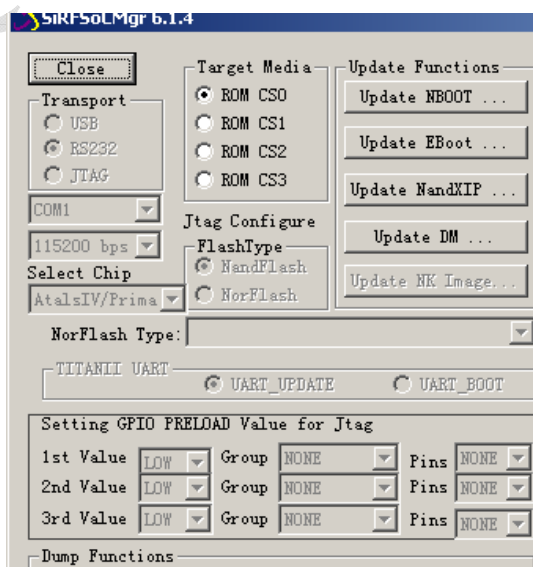
- Input 8, and then you will see a string "Connect AtMgr via URT0" and then **close** terminal window.
- Run SirfSocMgr.exe and then click "OPEN" button. Then quickly to press "RESET" button again, the button "Update Nboot" will be usable.



- Click "Update Nboot" and select a **nboot.img** (have to be a for 64MB DDRAM nboot image) to update Nboot until it succeeded.
- okay, your board will can work. You should update eboot if your eboot does not work. Otherwise, following the next step

Update Eboot.

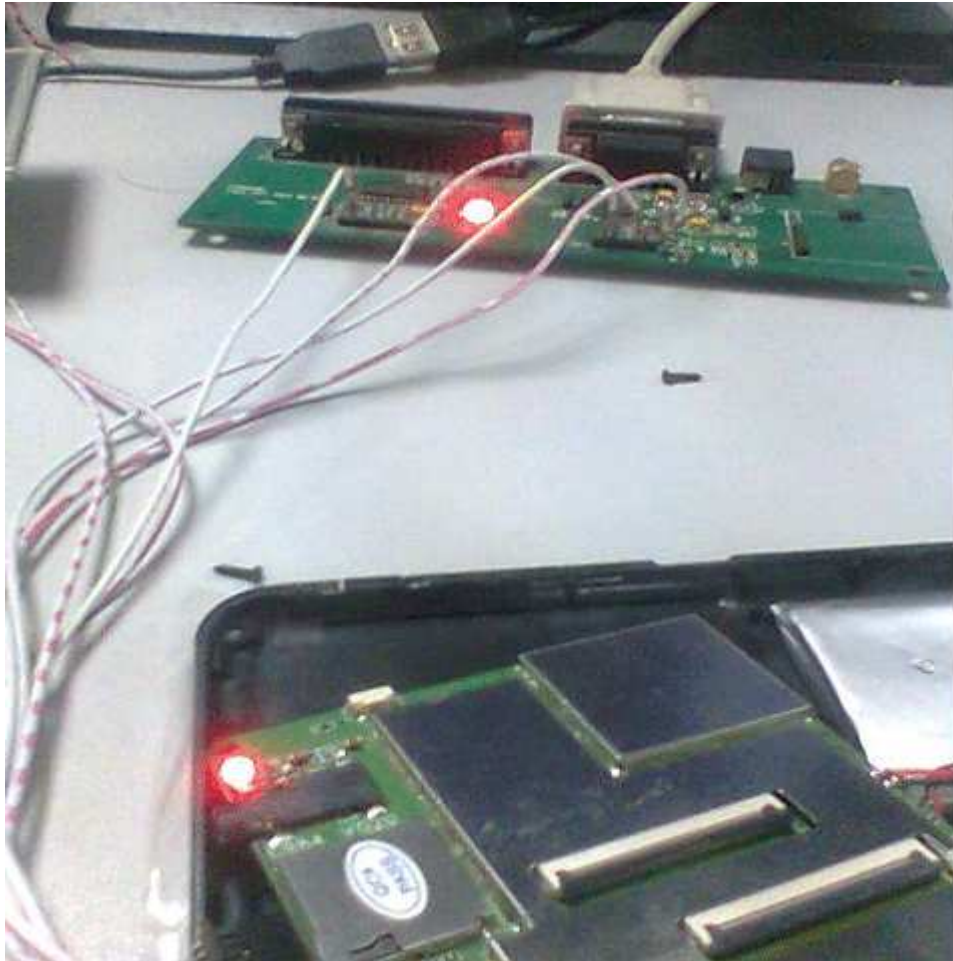
- do steps from 1 to 5 of "update Nboot"
- Select COM1 and 115200 of SirfSocMgr.exe before you click it. The Item "Update Eboot" will usable.



3. Click “update Eboot ” and select an **Ebupdate.bin** (for 64MB DDRAM) and until it succeeded.
4. Prepare the Update OS image and UI package on your TF card. And then reset the GPS to update them.

REMEMBER:

Please use all images only for 64MB DDRAM devices, not use them for 128MB Images.



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