

PIXEL CMOS PROJECT

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MIMOSTAR PROTOTYPE TEST BOARD

MIMOSTAR_PCB2

Technical Documentation Version 0.1

JTAG SOFTWARE GETTING STARTED

Ref Number: IRES_CMOS_MIMOSTAR_PCB2_JTAG_SW_INST_NOTES_0601 (060118)

Support:

Web address: <http://ireswww.in2p3.fr/ires/recherche/capteurs/index.html>

IReS -LEPSI

CMOS Group

23 Rue du Loess

F-67037 Strasbourg Cedex

Written by: Kimmo JAASKELAINEN (kimmo.jaaskelainen@ires.in2p3.fr)

Important Information

Warranty:

The MIMOSTAR_PCB2 test board is warranted against defects in material and workmanship for a period of one year from the date of shipment, as evidenced by receipts or other documentation. IReS laboratory will, at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.

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About this manual

This is a short description for initiation of using the JTAG software for MIMOSTAR2.

Modifications Chronology

VERSION	MODIFICATIONS	CHAPTERS
0.1	Creation of the document.	All

1. Getting Started

This document is a short description for initiation of using the JTAG software for MIMOSTAR2. All the necessary hardware installation should be done before the starting with this document.

The software is achieved with the WinZip program.

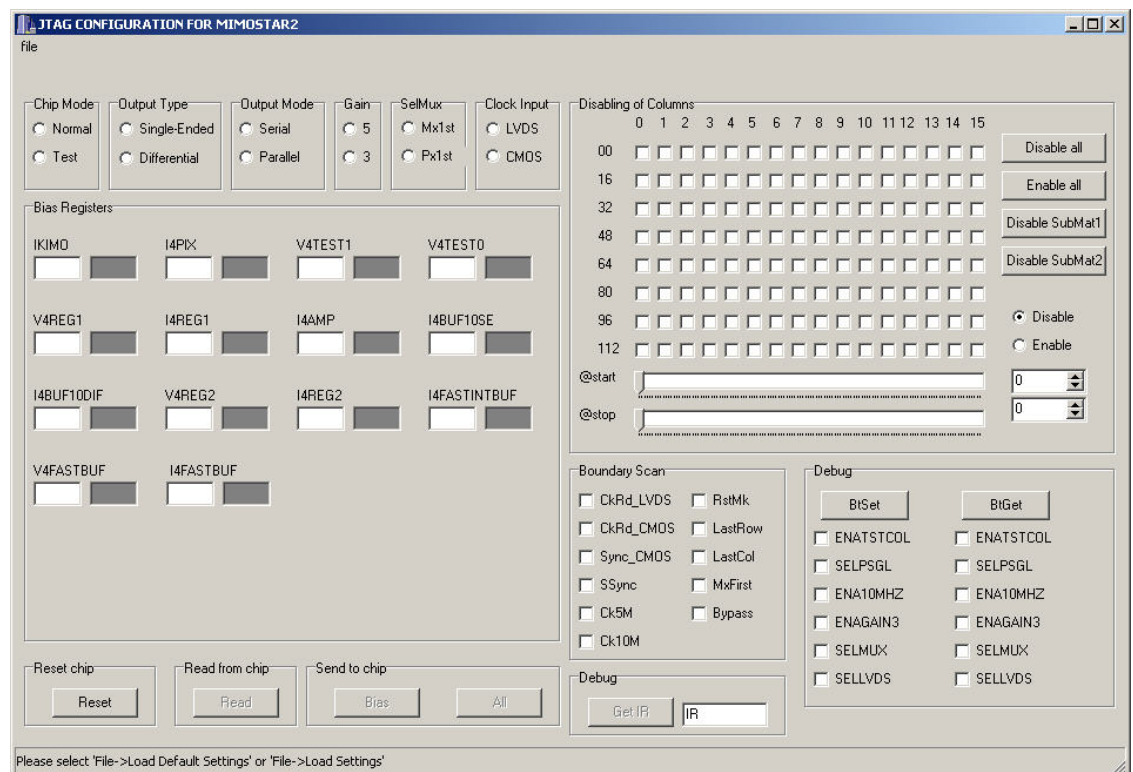
MINIMUM SYSTEM REQUIREMENTS FOR PC

- Pentium IV, 2 GHz or faster
- Microsoft Windows XP
- 256 MB RAM min. (512 MB recommended)
- CD-ROM driver
- 100 MB free hard disk place for software installation
- AGP video card with 64MB video RAM

To use this software, the MIMOSTAR2_PCB board should be connected to PC's parallel port and all the necessary power supplies should be connected and powered.

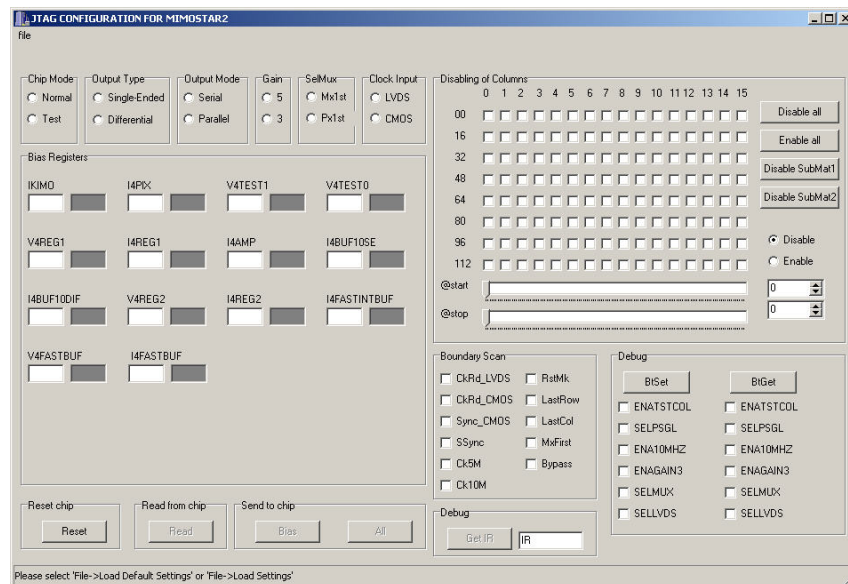
2. Software installation

1. All the files for the MIMOSTAR2 JTAG SOFTWARE are packed in a file **MIMOSTAR2_JTAG.zip**. To start, create a directory **C:\MIMOSTAR2** and copy the file **MIMOSTAR2_JTAG.zip** to the directory **C:\MIMOSTAR2**. Unzip **MIMOSTAR2_JTAG.zip** file to this directory.
2. Copy the file **C:\MIMOSTAR2\MS2_JTAG\porttalk.sys** in the directory **c:\windows\system32**.
3. Start the windows command interpreter (CMD.exe) .Execute the following command:
“**regedit C:\MIMOSTAR2\MS2_JTAG\portio\porttalk.reg**”. This procedure will enter the required keys into Windows registry and the driver starts automatically at next reboot.
4. Reboot the PC.
5. To start the MIMOSTAR2 JTAG SOFTWARE, double click the file **C:\MIMOSTAR2\MS2_JTAG\MS2_JTAG.bat**. Following windows should be shown on the screen.

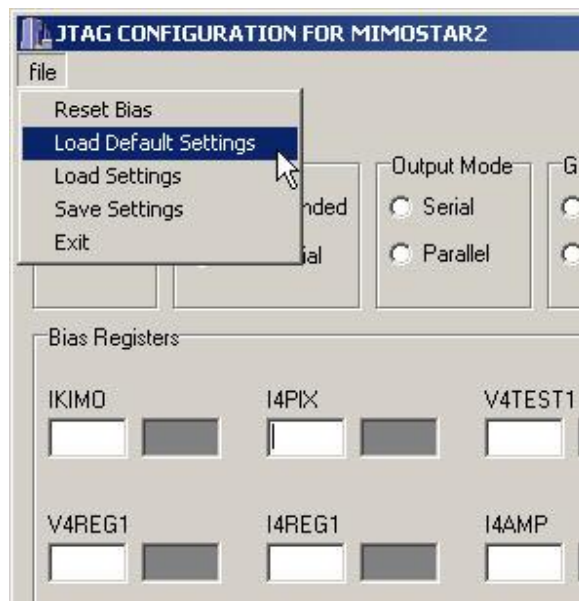


3. Using the software

- To start the MIMOSTAR2 JTAG SOFTWARE, double click the file **C:\MIMOSTAR2\MS2_JTAG\MS2_JTAG.bat**. Following windows should be shown on the screen.



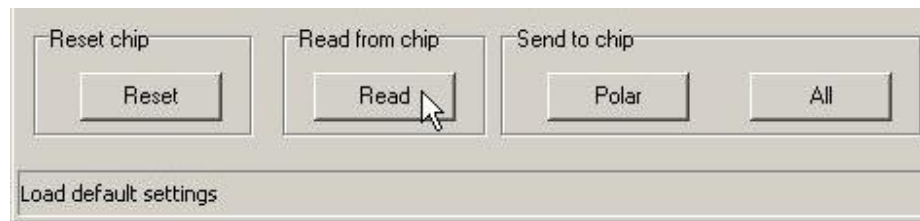
- Select Menu “File->Load Default Settings”. This command will load default parameter configuration for MIMOSTAR2 device (see the image below). The configuration files are in directory “C:\MIMOSTAR2\MS2_JTAG\config_files”.



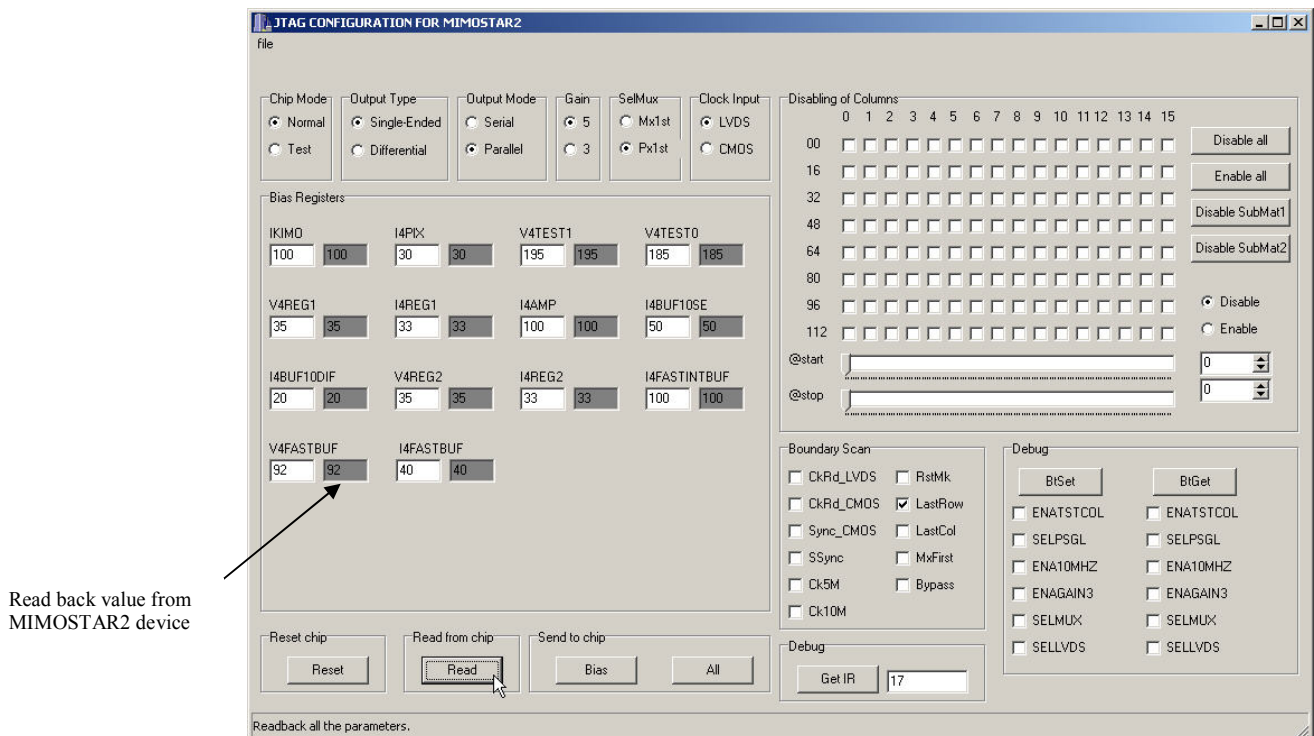
3. To update the parameters to the chip, please select a button “All” from the “Send to chip” group (see the image below).



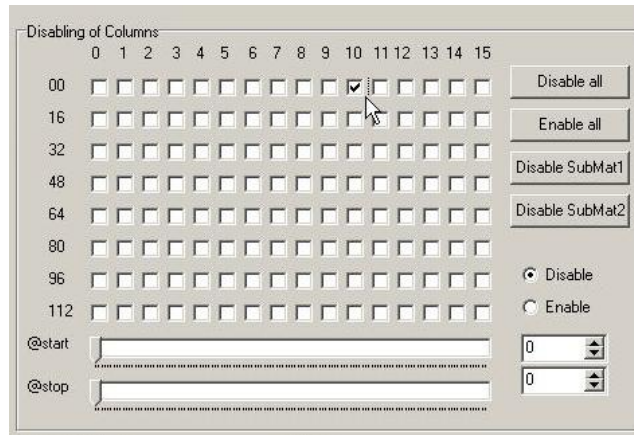
4. To read back the parameters from MIMOSTAR2, click the button “Read” from the “Read from chip” group (see the image below).



5. If the configuration was successfully finished the readback values for DACs should be shown at the right-side of each parameter (see the image below).



6. Disabling of Columns (disabling the column current sources for MIMOSTAR2 device) can be done by selecting the corresponding checkbox. For example, in a image below the column number 10 is disabled after the parameters are updated to the device.



3. Overview of the functions

