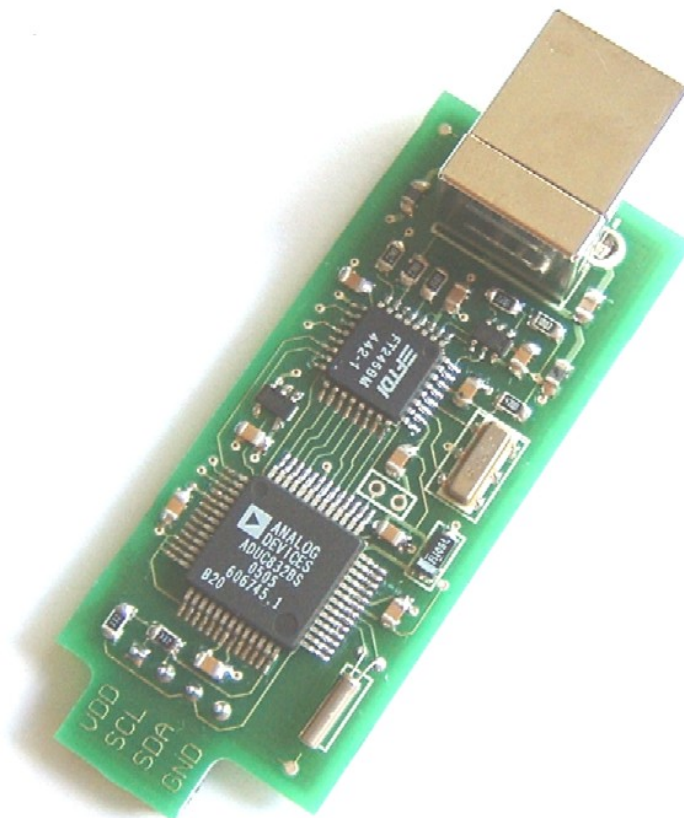


Getting started with the I2C-Downloader

Hardware Revision 1.2



Intended Use

The electromagnetic radiation of this POD certainly is higher than with a housing. Maximum values of regulations may be exceeded.

Note:

This POD is designed for research and development. Usage is restricted to especially qualified personnel, only!

No liability will be assumed for damages occur through improper use of the POD, especially for non ADI boards (please read Technical hints).

Software Installation

Please read first before start installation

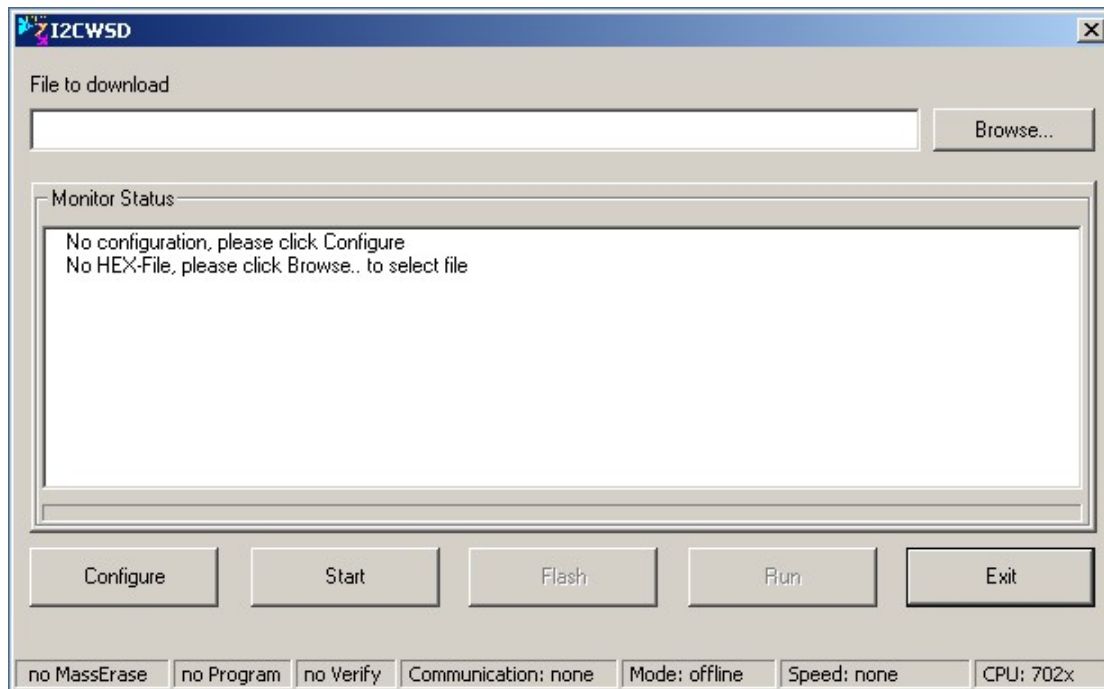
1. Unzip the file.
2. Create a link for I2CWSD (if required).
3. Connect the POD to a PC **without** connection to an ADuC-Board
4. Windows will now install the necessary drivers for the USB-Chip.
If the installer will look after a newer version, please cancel this.
The recommended driver are in the subfolder USB_Driver

Important notice:

If you should use other USB-Chips from FTDI (FT232 or FT2232C), please copy the FTD2XX.dll from folder USB_Driver in the folder who includes I2CWSD.exe. I2CWSD will now use this DLL and not from the system folder.

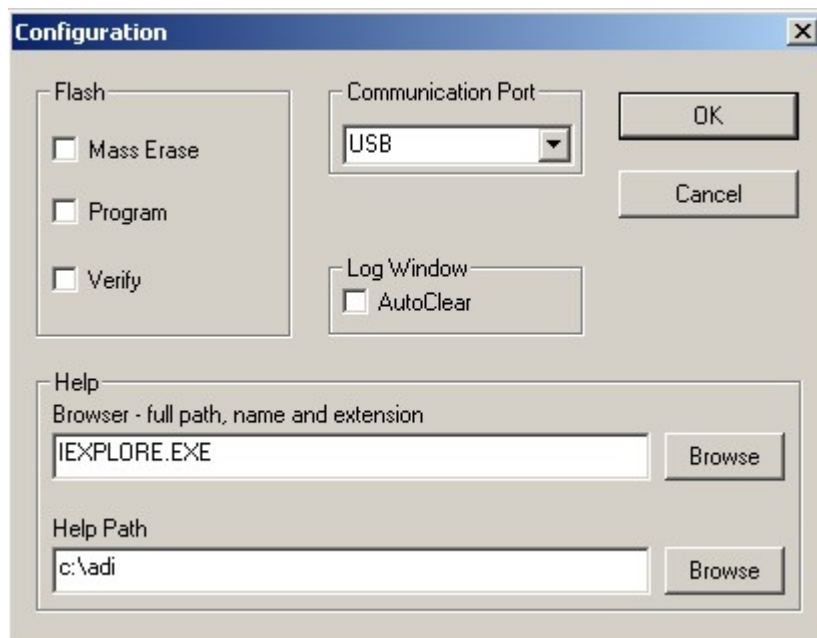
5. Disconnect the POD from the PC and reconnect it.
6. Connect the POD to your Board.
7. Start I2CWSD

I2CWSD Software



By select **Browse**, you can specify the file to download (for testing with an ADI board you can choose "Blinky.hex").

With **Configure** you will get the following box:



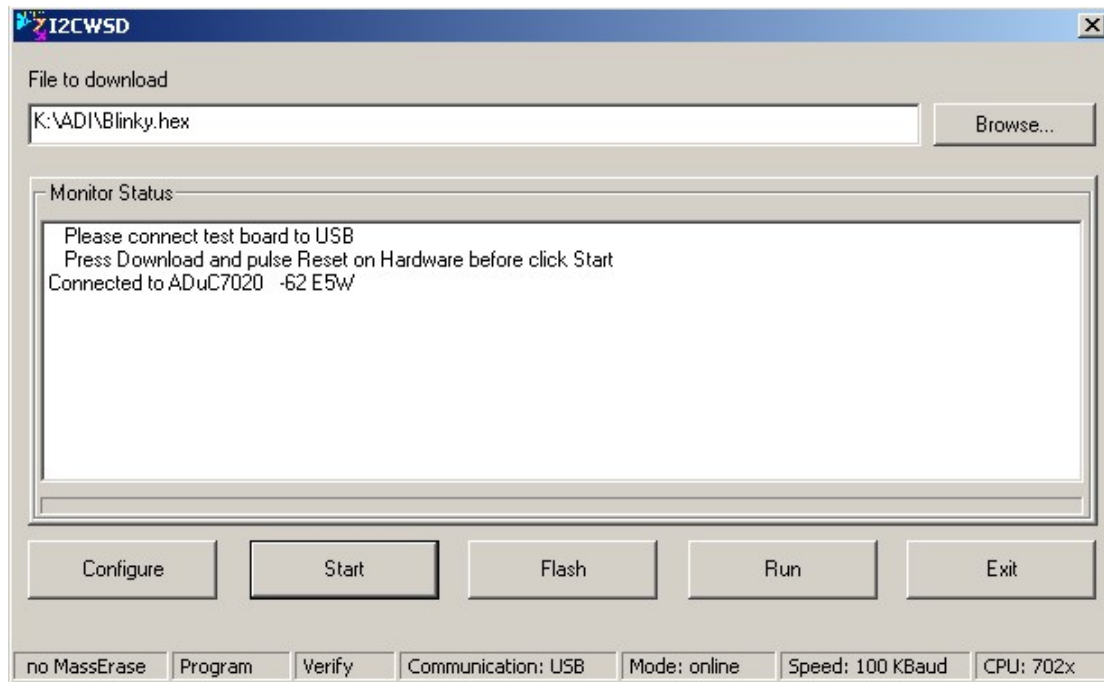
Normally we use Program and Verify for Download.

Autoclear clears the Log-Window before a new session.

The settings will be saved in a file, if you choose **OK**.

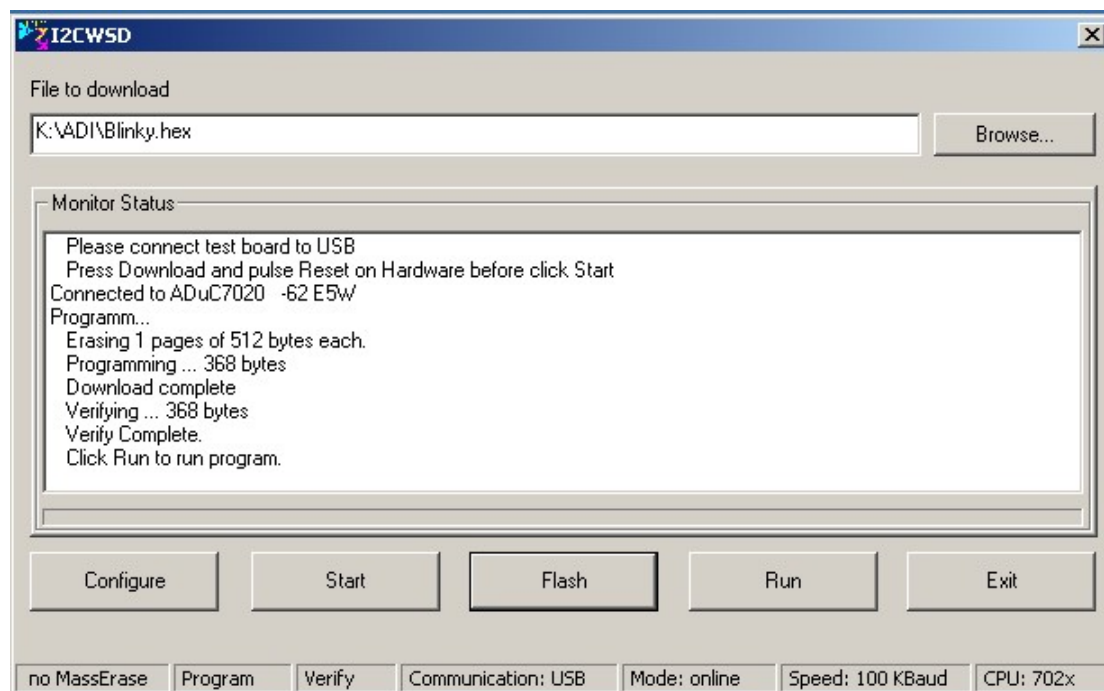
After returning from configure, following the instructions in the Log-Window (press Download and pulse reset on the board), then click **Start**.

Now the following information in the Log-Window should be seen:



The name of the microcontroller depends on you used controller. Then press **Flash** and the file will be loaded onto the board.

The program informs you about the progress of the download.



At the end you can press **Run** and the program will start.

Error messages and handling

If errors in communication occur, the Log-Window will display them.

Messages:

Can't clear USB Buffers

Can't send data

Can't read data

Can't get Device Status

Can't send Ini Data

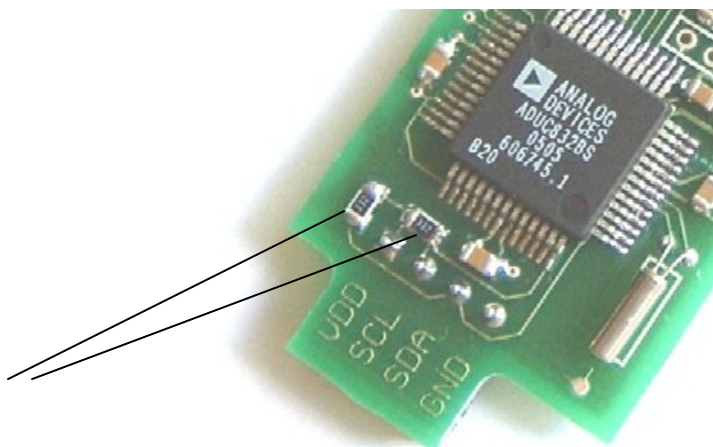
This messages points to a problem in communication between PC and POD. To clear, close I2CWSD and disconnect the POD from the PC. Wait a little bit, reconnect POD to PC and start I2CWSD again. This will clear all internal buffers in the system API and the USB should working again.

The reasons for the messages are:

- Click Flash or Run before Start
- Disconnecting POD during download process
- Click Start and board is not in download mode
- Pulse reset during download process

Technical hints

If you use a non-ADI board, please take care because of the pullup resistors for the I2C. The POD has pullups with 3.3 KOhm. When your system has pullups too, then the ADuC702x could be damaged on the I2C-Port, depending on the values of your pullups. If these values lower then 5,1KOhm, the I2C-Port can be damaged. To prevent such damages, you should remove the resistors on the POD.



Remove this resistors to avoid damages at the I2C-Port from the ADuC702x.