

Interfacing FlashRunner 2.0 with TI_A devices

Below the protocol supported:

- JTAG

Optional Command List:

- Read/Dump

Algorithm Flow

Blow Fuse

For MSP430F1, MSP430F2 and MSP430G devices, an external hardware is required to blow the fuse

The additional DIO6 pin is used to connect the TEST pin of the device to the VPROG1 pin, disconnecting it from the DIO0 pin, for the duration of the fuse blowing procedure.

MSP430F5, MSP430F6 and MSP430FR devices do not need the external hardware, as the blowing procedure is done through software. Thus, the DIO6 pin is not used

Commands List

Memory types:

F → Flash

I → Info Memory

B → BSL Memory

MASSERASE

MASSERASE <F|B|I>, or **MASSERASE** <I> <start_addr> <size>

This function perform a Masserase for Flash, BSL or Info Memory.

To avoid erasing some calibration values, the Info Memory can be partially erased.

BLANKCHECK

BLANKCHECK <F> or **BLANKCHECK** <F> <start_addr> <size>

Blankcheck command for Flash or Eeprom - Auto or Manual mode allowed

PROGRAM

PROGRAM <F|I> or **PROGRAM** <F> <start_addr> <size>

Program command for Flash, Eeprom - Auto or Manual mode allowed

VERIFY

VERIFY <F|I> <R|C> or **VERIFY** <F|I> <R|C> <start_addr> <size>

Verify command for Flash, Eeprom - Auto or Manual mode allowed.

R – Normal verify with Read-Out method

C – Normal verify with CRC method

READ

READ <F|I|B> <start_addr> <size>

Read function for Flash, Eeprom – Address check

DUMP

DUMP <F|I|B> <start_addr> <size>

Dump function for Flash, Eeprom – Address check

BLOWN_FUSE

Blown and check the fuse

CHECK_FUSE

Check the fuse and print the result in the log

RUN

Run function: resets the device and run the program in memory

CONNECT

Connect function: Power on and entry

DISCONNECT

Disconnect function: Power off and exit