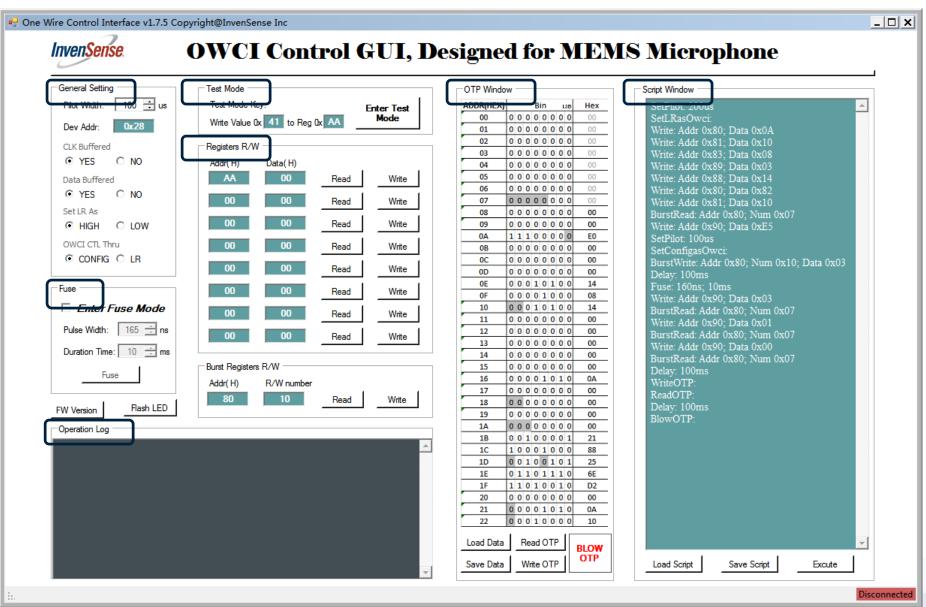
Overview of OWCI Software





Function Blocks of OWCI Software



These operations are

almost the same as

last version software.

General Setting

Hardware control, include pilot width and device address.

Test Mode

Enter Test Mode, supporting different DUTs.

Registers Read/Write

Single or burst registers read or write.

Fuse

- Support eFuse.

OTP Window

OTP operation, bit by bit or byte by byte, load data from a .txt file and save data to a .txt file.

Script Window

Load script from a .txt file and execute, edit a script and execute or save to .txt file.

Operation log

Display all the operations include commands and return data



New Features



OTP window

- Advantages:
 - 1. Totally new designed tools for eMemery operation in md008, could be re-used in future project as well;
 - 2. For each project, software will initialize OTP window based on a default config file, no need to rebuild a new GUI.

Script window

- Advantages:
 - 1. Script operation is a simple, flexible and efficient way for both PE and designers to do validation;
 - 2. For each project, no need to rebuild a new GUI, just write new script and execute;
 - 3. Script file is easy save and re-used between different sites.

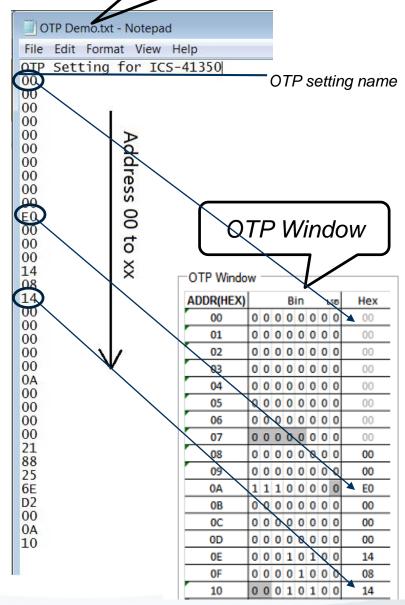


Blocks Review – OTP window

OTP setting file InvenSense

Functions of OTP Window

- Edit the window directly, supporting edit bit by bit or byte by byte, and write OTP or blow OTP;
- Save window data to a .txt file as right format;
- Load data form a .txt file as right format, and write OTP or blow OTP;
- After load, also can edit the updated window, and then save to a file, write OTP or blow OTP;
- Command line supporting, ext.
 writeotp.exe OTP Demo.txt
 blowotp.exe OTP Demo.txt
 (Note: xxxxxotp.exe and OTP Demo.txt
 must be in same directory).



Blocks Review – Script window



Script Demo.txt X



Functions of Script Window

- Edit a new script, and execute;
- Edit a new script, and save to a .txt file as right format;
- Load script form a .txt file as right format, and execute;
- After load script, also can edit in the updated window, and then choose to save to a new file or execute.
- Command line supporting, ext.
 execute.exe Script Demo.txt
 (Note: xxxxxotp.exe and OTP Demo.txt must be in same directory).

```
1 Script for DSM measurement of MD00Script nam
 4 SetLRasOwci:
 5 Write: Addr 0x80: Data 0x0A;
 6 Write: Addr 0x81: Data 0x10:
 7 Write: Addr 0x83: Data 0x08;
 8 Write: Addr 0x89: Data 0x03:
 9 Write: Addr 0x88: Data 0x14:
10 Write: Addr 0x80: Data 0x82:
11 Write: Addr 0x81: Data 0x10;
12 BurstRead: Addr 0x80: Num 0x07;
13 Write: Addr 0x90: Data 0xE5:
14 SetPilot: 100us;
15 SetConfigasOwci;
16 BurstWrite: Addr 0x80: Num 0x10: Data 0x03;
117 Delay: 100ms;
18 Fuse: 160ns: 10ms;
119 Write: Addr 0x90: Data 0x03:
20 BurstRead: Addr 0x80: Num 0x07;
121 Write: Addr 0x90: Data 0x01;
22 BurstRead: Addr 0x80: Num 0x07;
23 Write: Addr 0x90: Data 0x00;
24 BurstRead: Addr 0x80: Num 0x07;
25 Delay: 100ms;
                               Commands
26 WriteOTP;
27 ReadOTP:
                              execute from
28 Delay: 100ms;
                              line3 to line 29
29 BlowOTP:
```

!!! Each command in single line



Description of Commands 1



•	WRITE: 0x80: 0x10;	//write value 0x10 to register 0x80
•	READ: 0x80;	//Read value of register 0x80
•	BURSTWRITE: 0x80; 0x02: 0x03 : 0xA	4; //Burst write 0x03 and 0xAA to register 0x80 and 0x8A
•	BURSTREAD: 0x80: 0x10;	//Burst Read values of register 0x80-0x90
•	SETPILOT: 200us	//Set pilot as 200us
•	DELAY: 100ms	//Delay 100ms
•	FUSE: 160ns; 10ms //	Set fuse pulse as 160ns, fuse clock duration as 10ms, and fuse
•	WRITEOTP:	//Write OTP data to relative registers
•	READOTP:	//Read OTP data
•	BLOWOTP:	//Blow OTP, take care of POWER
•	SETLRASOWCI:	//Set LR pin on PCB as OWCI pin
•	SETCONFIGASOWCI:	// Set CONFIG pin on PCB as OWCI pin



Description of Commands 2



