

DESCRIPTION

The ACT88320 GUI is a Graphic User Interface uses to control the ACT88320 from a Windows based PC via an Active-Semi's USB-to-I²C dongle.

SOFTWARE AND DRIVER INSTALLATION

USB-to-I²C Driver Installation

The ACT88320 GUI only works on a PC with the driver of Active-Semi's USB-to-I²C dongle successfully installed. For Windows XP, Windows7 or Windows 8 users, please follow appropriated driver instruction inside the "How to install driver for dongle" folder to complete the driver installation. For Windows 10 user, the Windows 10 will automatically install the driver of the dongle once it first plug into PC's USB port under the name of "Cypress FX1 Default ID – EEPROM missing" USB controller.

Microsoft .NET Framework 3.0

The GUI requires PC has Microsoft .NET Framework 3.0 or later installed. Download and install the .NET Framework 3.0 from Microsoft official website in following link:

<https://www.microsoft.com/en-us/download/details.aspx?id=3005>

ACT88320 GUI

Basic Mode

After open the GUI by invoking the ACT88320 GUI REV0.0.exe file. The GUI Basic window will appear as below **figure 1**. The GUI has 2 basic functions: READ and WRITE on top left corner. Power up the ACT88320 EVK, connect USB-to-I²C dongle to PC and to the EVK. Always Read to acquire the ACT88320 register information after the ACT88320 EVK is powered up.

In Basic Mode, the right hand screen displays basic user programmable configuration options. Using drop-down or check boxes to set the user target configuration then click WRITE button to transfer the setting to the ACT88320 registers.

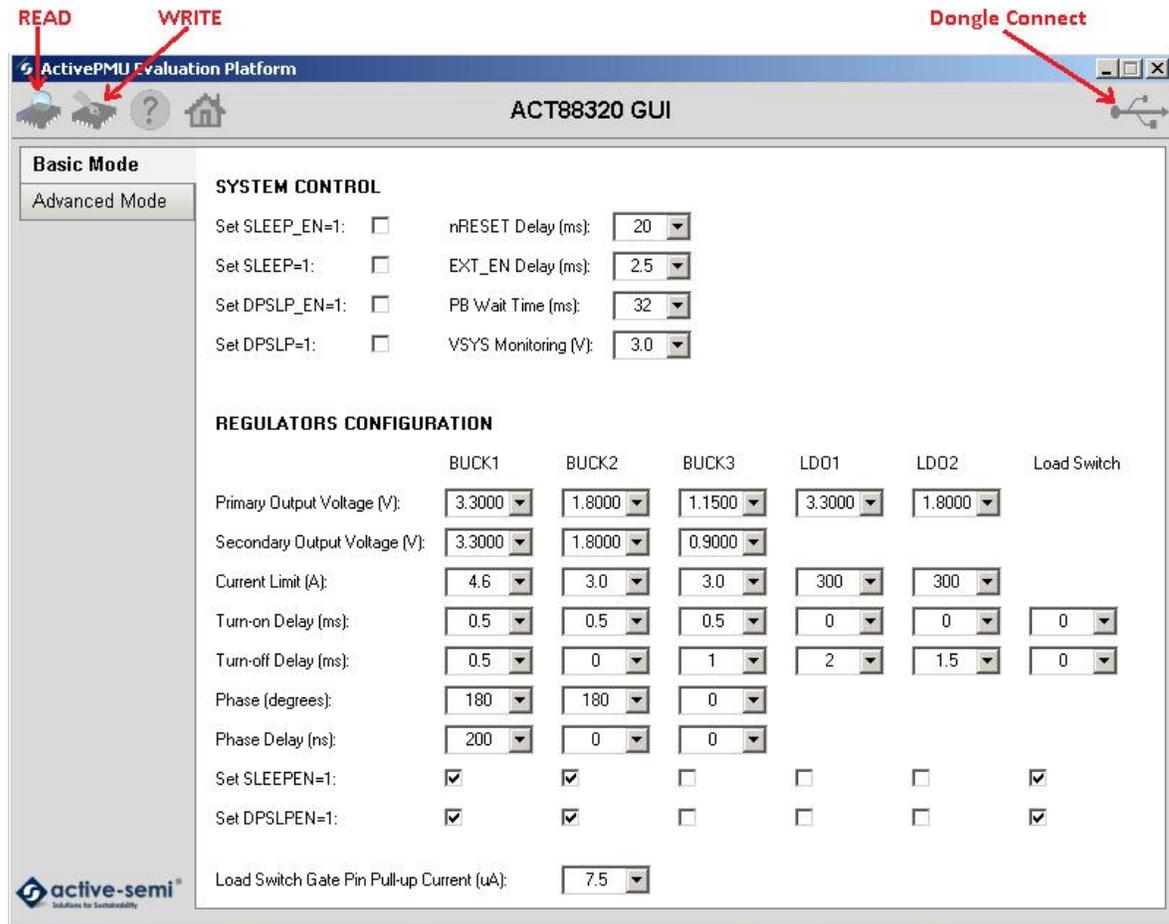


Figure 1: ACT88320 GUI in Basic Mode

Advanced Mode

Click the “Advanced Mode” button in the left side of the GUI screen to see all available user programmable options as shown in **Figure 2** below. With Advanced Mode, additional user programmable features can be selected using the button text. In the left side of the Advanced Mode Screen, the tiles selector is displays to allow user to select to displays registers in tiles basis. The ACT88320 registers divide into 6 different tiles (SYSTEM, BUCK1, BUCK2,

BUCK3, LDO1/2, and Load Switch1/2).

In the Main Advanced Mode Screen, user can change the bit value by click the corresponding bit-name button. The value of the bit is displayed right next to the bit-name button. To transfer data from GUI to ACT88320 registers, advanced mode allow 2 transaction options:

- Click WRITE button to transfer all information on the GUI to the ACT88320 registers.
- Right click at the modified bit and to choose either Read or Write only the selected byte address to the ACT88320 register.

In the far right of the screen there is scroll down button to scroll down to other registers of the tile since the screen is only allowed to displays up to 8 bytes at once.

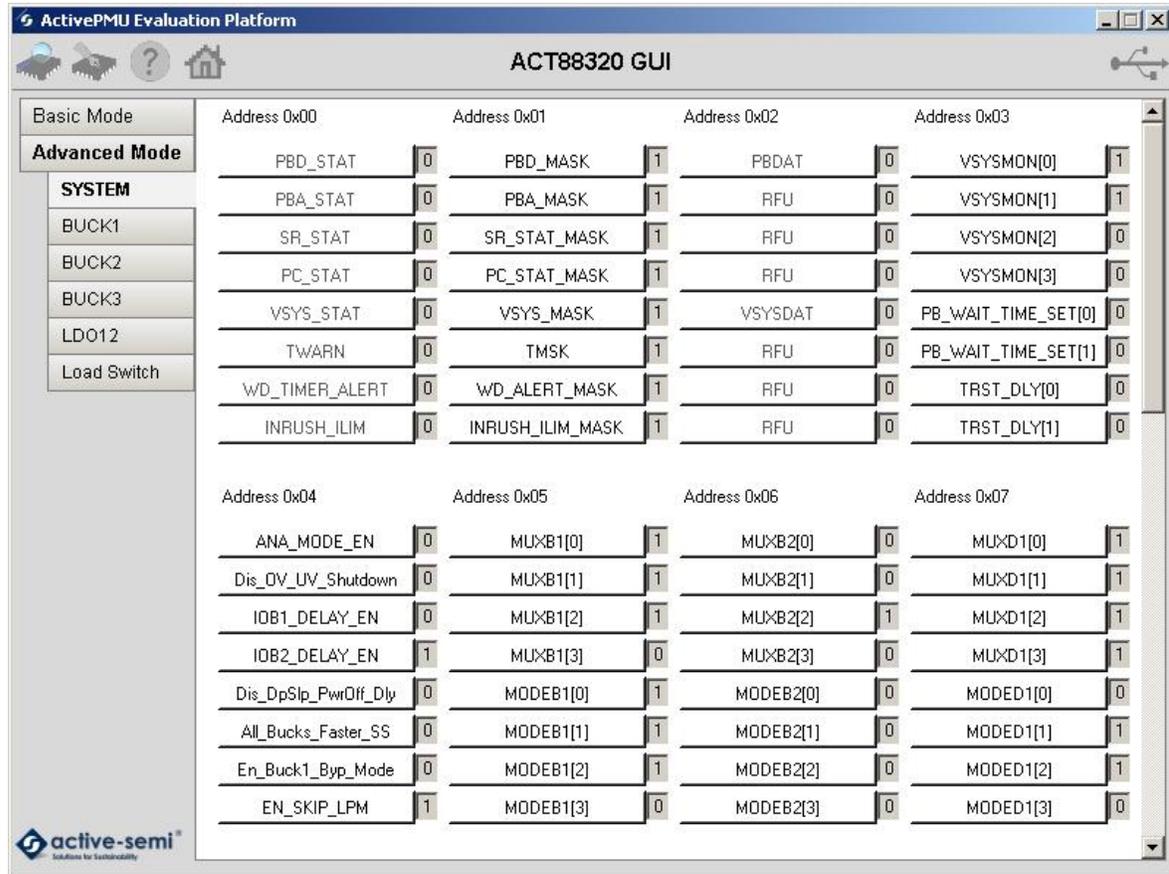


Figure 2: ACT88320 GUI in Advanced Mode Screen

USB-to-I²C DONGLE

Please make sure the Dongle, cable, EVK are all correctly connect as instruction shown in **Figure 3** below.

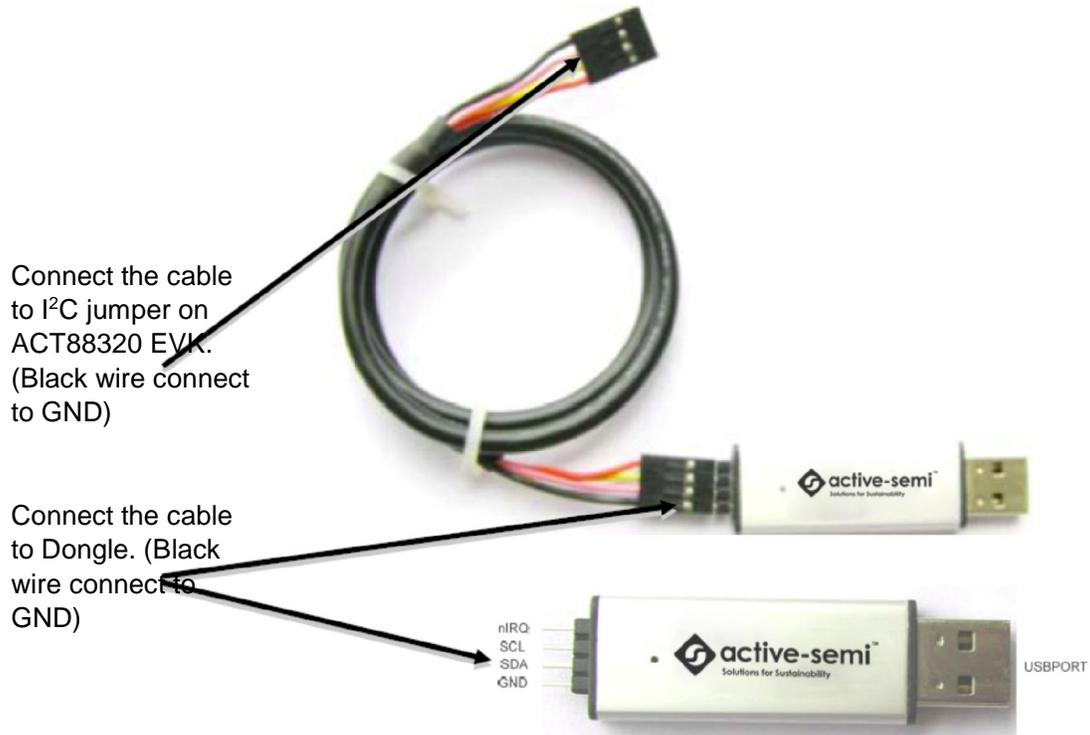


Figure 3: USB-to-I²C Dongle and Cable Connection