**Document No. :** **18-073865-01-a EVAL-AD45335SDZ**

**Title : EVAL-AD45335SDZ Customer Evaluation Board Test Procedure**

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| REVISION HISTORY | | | | |
| **Revision** | **ECR #** | **Description of Change** | **Date** | **Author** |
| A |  | Initial Release | 26th April 2023 | Ian Vincent Andal |
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| **Required Approvers** | |
| **Approver Roles** | **Approver Names** |
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# Hardware/Equipment List

* Computer or laptop
* Mini-USB to USB Cable
* EVAL-AD45335SDZ
* EVAL-SDP-CS1Z (SDP-S) or EVAL-SDP-CB1Z (SDP-B)
* 60V power supply
* 5V power supply

# Software List

* EEPROM programmer
* AD5535B Test Software

# Hardware Setup

**Evaluation board link settings:**

LK1, LK2 =B

LK3, LK5 = OUT

LK4 = IN

K1, K2, K3, K12, K4 = IN

K14 = OUT

Power supply settings:

Set DC Power Supply 1 limits to 60V, 200mA.

Connect to 60V to VPP and ground/COM to AGND

Set DC Power Supply 2 limits to 5V, 50mA

Connect 5V to V+ and AVCC+5V, and ground/COM to AGND

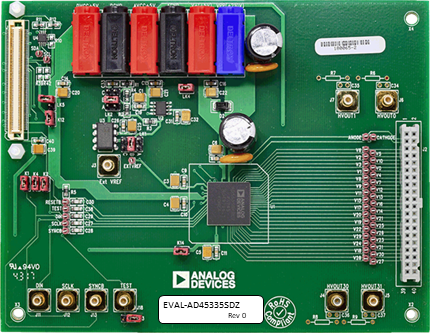


Figure Hardware Setup Image

# EVAL-AD45335SDZ Test Procedure

1. Download the files from FTP and Install the test software on your local folder. Use the FTP details below

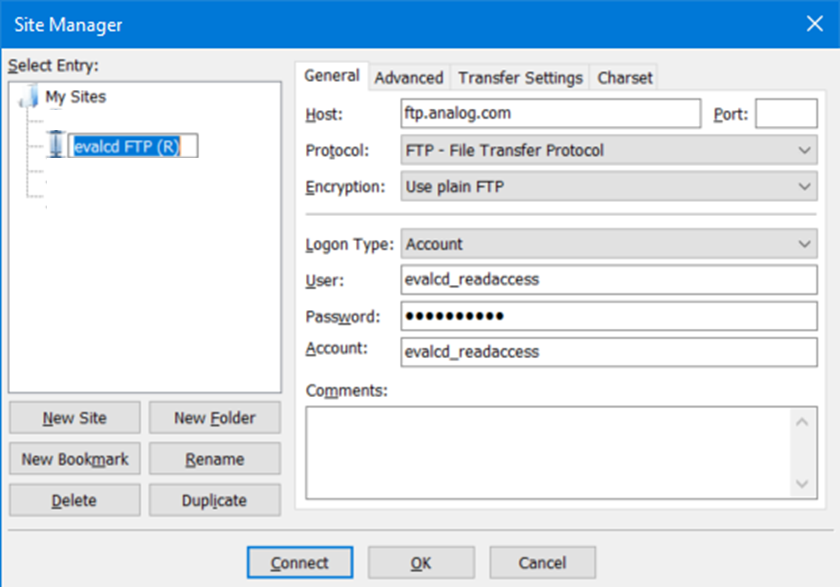
Username: evalcd\_readaccess

Password: !Subcon123

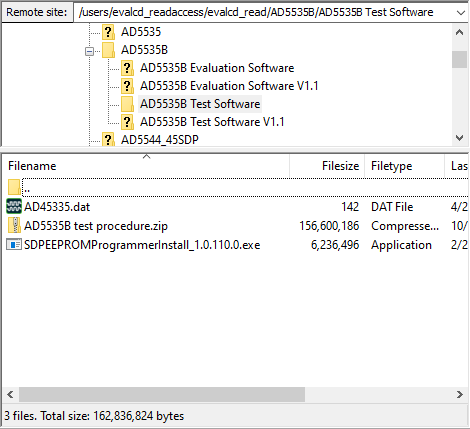
Account: evalcd\_readaccess

FTP Server/Host: [ftp.analog.com](ftp://ftp.analog.com)

Logon Type: Account



FTP link: /users/evalcd\_readaccess/evalcd\_read/AD5535B/AD5535B Test Software



1. Connect the EVAL-AD45335SDZ to the SDP-S’s CON-A 120pin connector as shown in Figure 1. And attach the USB cable to the PC. (Note: SDP-B can be used instead of SDP-S)
2. Follow **SDP EEPROM Programmer Installation**. This is a one-time setup per board. And follow
3. **SDP EEPROM Programmer** Procedures**.**
4. Turn on the power supplies.
5. Running the test software will launch the window shown in Figure 3.
6. Clicking the Program All DACs button will load all channels with a different voltage. The output voltage on each channel should be approximately 10V above the channel number. For example V0 will be 10V, V1 will be 11V, V25 will be 35V etc.
7. If all voltages are correct, board passes.

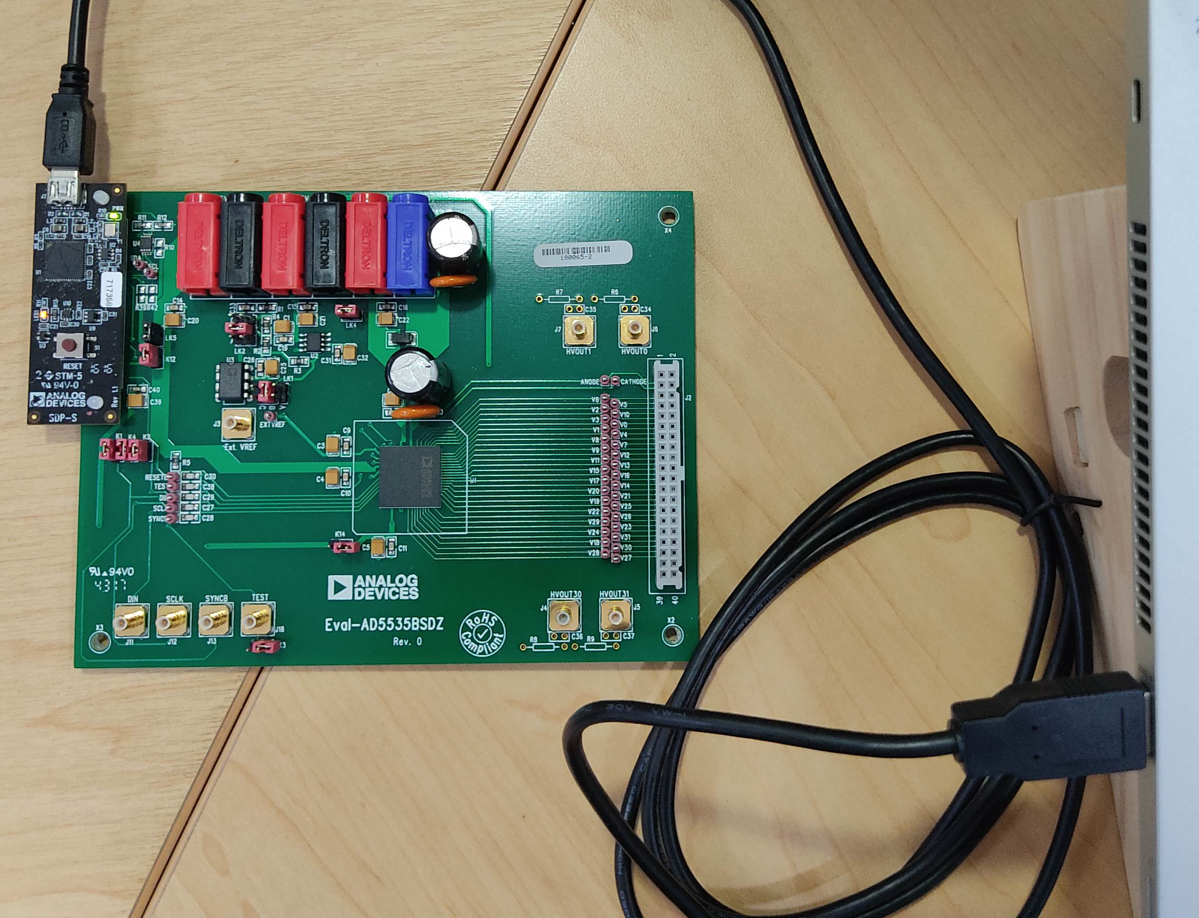


Figure Board Image AD5535B + SDP-S

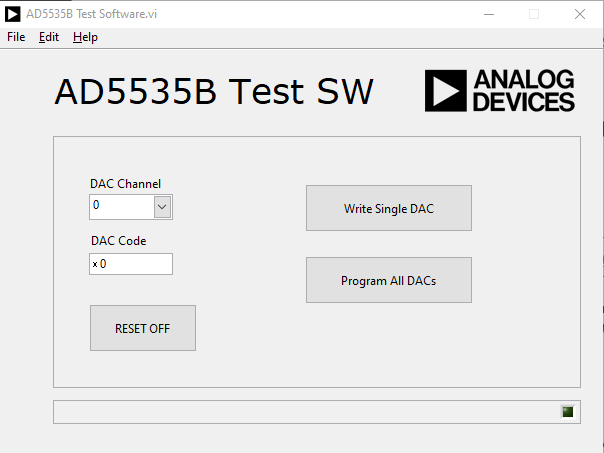


Figure 3 Test SW Interface

# SDP EEPROM Programmer Procedures

1. Open EepromProgrammer.exe located in the “SDP EEPROM Programmer” folder in the target directory set during installation. The main window shown in Figure 4 would be launched.

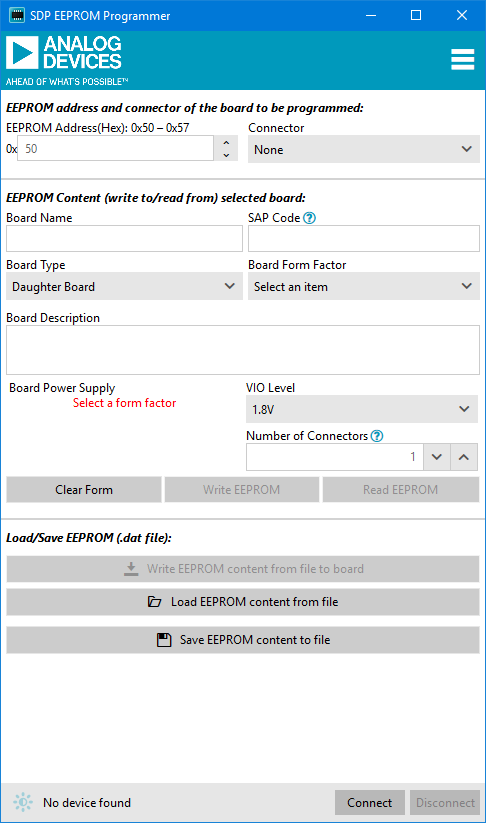


Figure . SDP EEPROM Programmer Window

1. On the bottom right portion of the window click on Connect. The main window will change the display as shown in Figure 5.

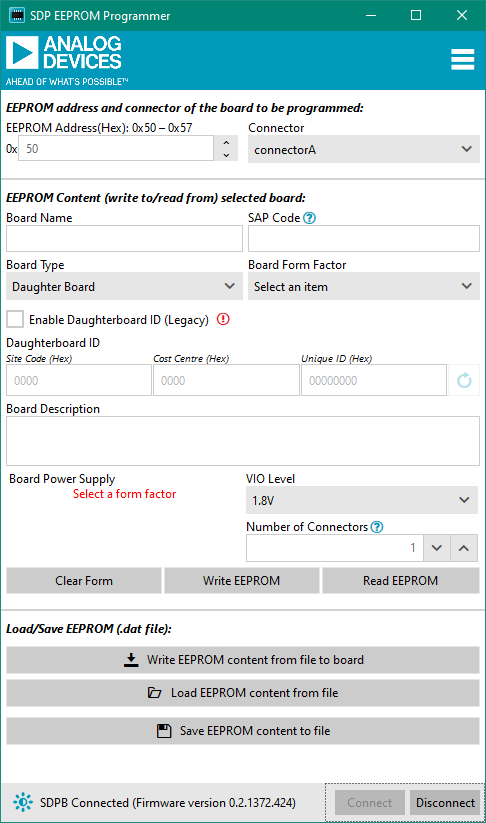


Figure . SDP connected

1. Click on “Load EEPROM content from file” and select the AD45335.dat that was copied to your local folder. The main window will change the display as shown in Figure 6. The form should be filled out completely except for the EEPROM Address on the top left. Please put 54 on the input field.

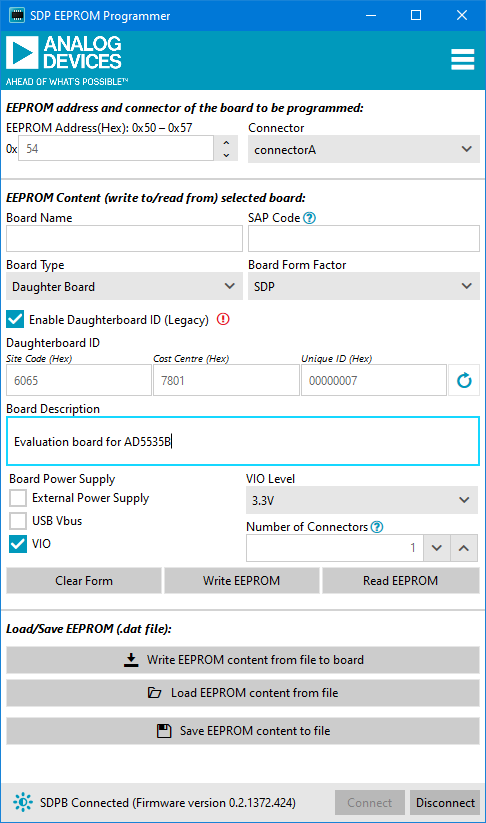
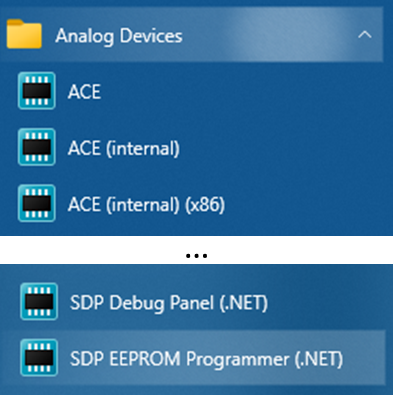


Figure EEPROM Content Load From File Window

1. Click on the “Write EEPROM” button near the center of the window. Wait for the pop-up window that shows that write to EEPROM is complete.
2. Click on the disconnect button on the bottom right side of the window and close the SDP EEPROM Programmer window. End of procedure.

# SDP EEPROM Programmer Installation

1. Go to your local folder. Run SDPEEPROMProgrammerInstall\_1.0.110.0.exe
2. Just follow through the installation wizard.
3. Once installation finishes exe file should be in Start Menu, Analog Devices > SDP EEPROM Programmer (.NET)



Figure