



# **Test Procedure for the CAT3626AEVB Evaluation Board**

### **Test Procedure:**

### **1.** Jumper configuration

- 1.1. Verify that switch K3 is in the 'OFF' position.
- 1.2. Verify that jumpers J1 to J7 are shunted.
- 1.3. Verify that jumper J8 is shunted in the 'VIN EN' position.
- 1.4. Verify that jumper K1 is shunted in the 5V position.

## 2. Power Supply

2.1. Insert a 9V Battery in the battery holder located underneath the board.

or

2.2. Connect an external 9V DC power supply between the test points T7 (positive terminal of the battery) and T8 (GND). Test points T7 and T8 are located on the backside of the board. Connect the positive terminal of the supply to pin T7 and the negative terminal to pin T8. There is no protection against reverse voltage on T7 and T8 terminals.

#### 3. Test Procedure

- 3.1 <u>"Stand-alone" operating mode</u>:
- 3.1.1 Verify that jumper J9 in unpopulated.
- 3.1.2 Power-on the evaluation board by the moving switch K3 to the 'ON' position.
- 3.1.3 The RGB LEDs D7 and D8 will light up. The brightness and the color of each RGB LED will change intermittently.
- 3.2 "PC connection" operating mode:
- 3.2.1. Connect the CAT3626DB1 evaluation board to a PC using a RS232 serial interface cable.
- 3.2.2. Verify that jumper J9 is populated.
- 3.2.3. Power-on the evaluation board by the moving switch K3 to the 'ON' position.
- 3.2.4. Run the program CAT3626DB.exe.
- 3.2.5 Press the "ENABLE" button on the graphical user interface (GUI) and the





CAT3626 circuit will be enabled. The RGB LEDs D7 and D8 should not light up.

- 2.5. In the 'REGISTER\_S' box of the GUI, click on which LED or LEDs to be active and then click on the "Write" button. The selected LEDs will light up with the lowest brightness setting.
- 2.6. Adjust the selected LED's brightness by the moving the potentiometer's cursor (located on the right). Moving the cursor all the way to the left will result in the lowest brightness, while moving it all the way to the right will result in the maximum brightness.

In the "Text Box" located on the left, the user can also input in the value of the brightness in binary value ('XX000000' will result in the lowest brightness setting and 'XX111111' will result in the maximum brightness setting) associated with each group A (red), B (green) and C (blue).

- 2.7. Uncheck all the LEDs in the 'REGISTER\_S' box and then click on the 'Write' button. All the LEDs will turn off.
- 2.9. Press on the GUI the "Disable" button.
- 2.10. Close the program by pressing the "Exit" button on the GUI and switch off K3.