



Test Procedure for the CAT4103AEVB Evaluation Board

Test Procedure for the CAT4103 EVAL Board

1. Initial Setup and Jumper Configuration

CAT4103EVAL Board:

- 1.1. Verify that jumper J1 is shunted in the (2, 3) position.
- 1.2. Verify that jumpers J2 to J5 is shunted in the (1, 2) position.
- 1.3. Set the cursor of potentiometers R1 to R3 to the mid-scale position.
- 1.4. On connector K1, connect pin 2 (SIN) to pin 1 (VBUS) with a wire.
- 1.5. On connector K1, connect pin 5 (BIN) to pin 6 (GND) with a wire.

2. Power Supply

- 2.1. Connect an external 5V DC power supply between pin 1 (VBUS) and pin 6 (GND) of connector K1. There is no protection against reverse voltage on pin 1 and pin 6.
- 2.2. Connect a function generator with a 1 kHz square wave signal (amplitude is 0V to 5V) to pin 3 (CIN) and pin 6 (GND) of connector K1.

3. Test Procedure

- 3.1. Turn on the 5V DC power supply and 1 kHz function generator.
- 3.2. On connector K1, connect pin 4 (LIN) to pin 1 (VBUS) with a wire. The RGB LED will light up.
- 3.3. Rotate the cursor of any of the R1, R2 or R3 potentiometers. The brightness level of the corresponding LED's color will change.
- 3.4. On connector K1, disconnect pin 5 (BIN) from pin 6 (GND).
- 3.5. On connector K1, connect pin 5 (BIN) to pin 1 (VBUS). The RGB LED will turn off.
- 3.6. Turn off the 5V DC power supply and 1 kHz function generator.