



## Test Procedure for the NIS5021MT1GEVB Evaluation Board

The following steps detail the basic test procedure for these boards:

### Necessary Equipment:

1 20 V Adjustable DC Power Supply

1 4 channel Digital Phosphor Oscilloscope

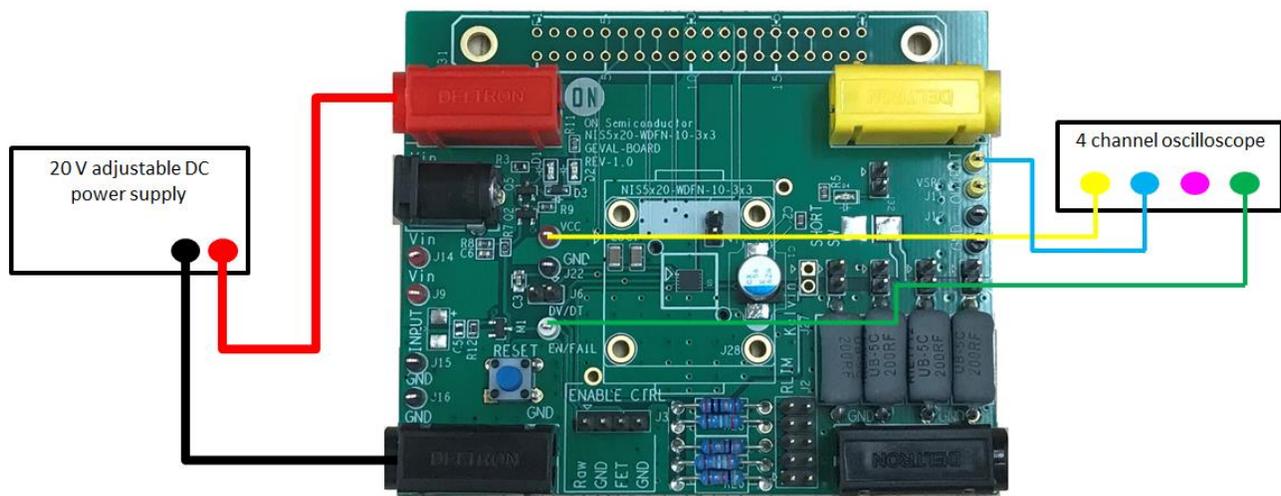


Figure 1: Test Setup

### Test Procedure:

1. Check if all of the components have the right values and are mounted in the correct positions.
2. Connect the test setup as shown in Figure 1.
3. Engage the jumper J2 to select 40 ohm (last jumper the array)
4. Apply an input voltage,  $V_{in} = 12\text{ V}$
5. Check that  $V_{out} = 12\text{ V}$ ,  $V_{en} \sim 3\text{ V}$  and the Green LEDs are ON
6. Engage the jumper J32 and observe that  $V_{out} = 0\text{ V}$ ,  $V_{en} \sim 1.4\text{ V}$ , the Green LEDs are OFF, and the Yellow LED is ON
7. Remove jumper J32 and press and release the blue toggle switch
8. Check that  $V_{out} = 12\text{ V}$ ,  $V_{en} \sim 3\text{ V}$  and the Green LEDs are ON
9. End of test