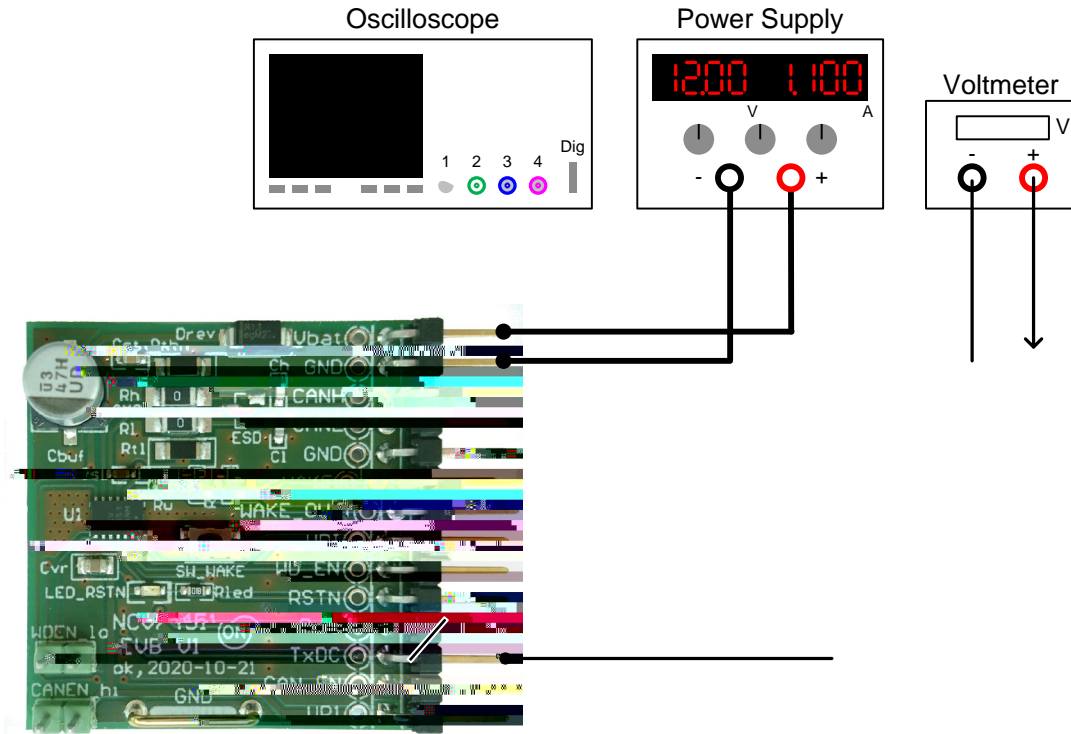


Test Procedure for the NCV745V1GEVB Evaluation Board



Required Equipment

- Oscilloscope
- Bench Power Supply
- Voltmeter
- Signal Generator
- CAN Evaluation Board

Test procedure Step1 (Low power mode):

1. Connect the setup as shown above
2. Close(short) WDEN_lo
3. Open CANEN_hi
4. Check VR1
5. Check RxDC, CANH, CANL, RSTN
6. Check I_{bat} .

Table 1: Desired Results

VR1
LED_RSTN off
RxDC HIGH
CANH OFF
CANL OFF
$I_{bat} < 0.05 \text{ mA}$

Test procedure Step 2 (Normal mode, CAN recessive):

1. Open WDEN_lo
2. Close (short) CANEN_hi
3. Check I_{bat} .

Table 2: Desired Results

RxDC HIGH
$I_{bat} = < 2 \text{ mA} - 12 \text{ mA} >$
LED_RSTN flashing

Test procedure Step 3 (Normal mode, CAN square-wave):

1. Close (short) WDEN_lo
2. Apply Squarewave signal to TxDC (0-5 V, 1 MHz)
3. Check AC characteristics of TxDC, CANH, CANL
4. Check WAKE_OUT

Table 3: Desired Results

RxDC HIGH / LOW
$I_{bat} = < 10 \text{ mA} - 30 \text{ mA} >$
CANH RECESSIVE / DOMINANT
CANL RECESSIVE / DOMINANT
WAKE_OUT LOW

Test procedure Step 4 (Normal mode)

1. Press SW_WAKE
2. Check WAKE_OUT

Table 4: Desired Results

WAKE_OUT HIGH

