



ON Semiconductor®

NV70501R10DBGEVB Evaluation Board Testing Procedure

Equipment and Instruments required:

- (1) NV70501R10DBGEVB Evaluation Board (DUT)
- (2) NCV7052XGEVK Automotive Stepper Motor Driver Kit
- (3) Function Generator – square wave signal 0 – 3.3V (Amplitude 3.3 V, Offset 1.65V), frequency 4 kHz
- (4) NCV70501 SW Application Support GUI

Testing Procedure:

- a) Install NCV70501 SWAS GUI (4) on your PC (see attached Quick Start Manual)
- b) Connect NCV7052XGEVK Evaluation Kit (2) to power supply and PC via ECUSIM MKII USB to SPI converter (see Manual)
- c) Connect Function Generator to “NXT” test point (it is located close to the inserted daughter board) and ground bar on EVK (2)
- d) Plug NV70501R10DBGEVB Evaluation Board (DUT) (1) into Stepper Motor Driver Kit (2).
- e) Run NCV70501 SW GUI (4), on tab “01 - Main” push “SPI INTERFACE CONNECT”, you should see message about successful connection to kit “USB to SPI Communicator Connected, DRV NAME: ECUSIM MKII 500”.
- f) On Tab “02 – APPLICATION CMD” push “READ ALL DIAGNOSTIC” to clear possible flags, set “R/H POL” bit to 1, select “IRUN = 300 [mA]” and push “UPDATE ALL & ENABLE MOTOR”
- g) If Motor rotates, the NV70501R10DBGEVB Evaluation Board is working properly and was successfully tested
- h) Push “DISABLE MOTOR & UPDATE ALL” to stop the motor

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Power Management IC Development Tools](#) *category:*

Click to view products by [ON Semiconductor](#) *manufacturer:*

Other Similar products are found below :

[EVAL-ADM1168LQEBZ](#) [EVB-EP5348UI](#) [MIC23451-AAAYFL EV](#) [MIC5281YMME EV](#) [DA9063-EVAL](#) [ADP122-3.3-EVALZ](#) [ADP130-0.8-EVALZ](#) [ADP130-1.2-EVALZ](#) [ADP130-1.5-EVALZ](#) [ADP130-1.8-EVALZ](#) [ADP1712-3.3-EVALZ](#) [ADP1714-3.3-EVALZ](#) [ADP1715-3.3-EVALZ](#) [ADP1716-2.5-EVALZ](#) [ADP1740-1.5-EVALZ](#) [ADP1752-1.5-EVALZ](#) [ADP1828LC-EVALZ](#) [ADP1870-0.3-EVALZ](#) [ADP1871-0.6-EVALZ](#) [ADP1873-0.6-EVALZ](#) [ADP1874-0.3-EVALZ](#) [ADP1882-1.0-EVALZ](#) [ADP199CB-EVALZ](#) [ADP2102-1.25-EVALZ](#) [ADP2102-1.875EVALZ](#) [ADP2102-1.8-EVALZ](#) [ADP2102-2-EVALZ](#) [ADP2102-3-EVALZ](#) [ADP2102-4-EVALZ](#) [ADP2106-1.8-EVALZ](#) [ADP2147CB-110EVALZ](#) [AS3606-DB](#) [BQ24010EVM](#) [BQ24075TEVM](#) [BQ24155EVM](#) [BQ24157EVM-697](#) [BQ24160EVM-742](#) [BQ24296MEVM-655](#) [BQ25010EVM](#) [BQ3055EVM](#) [NCV891330PD50GEVB](#) [ISLUSBI2CKIT1Z](#) [LM2744EVAL](#) [LM2854EVAL](#) [LM3658SD-AEV/NOPB](#) [LM3658SDEV/NOPB](#) [LM3691TL-1.8EV/NOPB](#) [LM4510SDEV/NOPB](#) [LM5033SD-EVAL](#) [LP38512TS-1.8EV](#)