



Test Procedure for the AMIS-3910XGEVB Evaluation Board

Author: Koenraad Van den Eeckhout

Revision: v1.0

Date: April 30, 2014-04-30

Test Equipment required:

Power Supply TTI PL330DP or similar

Signal Generator (x2): Agilent 33220 or similar

Multimeter

Test Procedure

- Set one power supply to 30V, 50 mA
- Connect the power supply (V_BAT) to connector P1 in both polarities
 - In the correct polarity LED5 should light up
 - In the reverse polarity, the board should draw no current
- Connect the power supply to connector P1 in the correct polarity
- Measure the voltage between TP3 and TP4. This voltage should be $3.3V \pm 0.1V$
- Turn off the power supply and connect as follows:
 - Place a jumper on J4 between pin 3 and 4
 - Connect the first signal generator (clock) to pin 2 of J4 (ground connect to pin 1)
 - Connect the second signal generator (cs) to pin 6 of J4 (ground connect to pin 1)
 - Connect the SYNC output of the clock signal generator to the EXT TRIG input of the cs signal generator
- Set the clock signal generator as follows:
 - Square wave, 100 kHz, High Level 3.3V, Low Level 0V
 - Burst, 8 cycles, Start Phase 1°
 - Utility > Output > High Z
- Set the cs signal generator as follows:
 - Square wave, 5 kHz, High Level 3.3V, Low Level 0V
 - Burst, 1 cycle, trigger > external source, rising edge
 - Utility > Output > High Z
- Turn on the power supply
- Press the trigger button on the clock signal generator
 - All LEDs should now light up