

White Paper.0100 STK5200

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1. About

1.1 Range of application

This document points out possible malfunction of the STK5200 Starterkits. It applies to some delivery lots of the STK5200 Starterkits with the Revisions 10x.

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1.3 Imprint

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1.6 Revision History

Revision (Version) History					
Rev	Modification	Created		Approved	
		Date	Cipher	Date	Cipher
100	Creation	2005/04/05	ANW	2005/04/05	VJU

Illustration 1-1: Revision History

2. CAN Transceiver

Description:

Usually the PCA82C251 (Philips Semiconductors) is used in combination with a DC/DC-converter (with a voltage tolerance of 10%) for implementing the CAN-Transceiver physical layer on the STK5200. On some boards the TJA1050 (Philips Semiconductors) was mounted.

Impact:

Due to tolerance problems of the combination DC/DC-converter and TJA1050 the CAN-device may not work.

Enhancement:

Change CAN-Transceiver D21 and D22 from TJA1050 to PCA82C251 if necessary.

Comments:

The layout diagram can be provided on request.

3. I²C

Description:

The I²C Interface wiring is not correct.

Impact:

The I²C Interface may not work.

Enhancement:

Change wiring of the I²C Interface (with reference to page 2 and page 13 of the STK5200 schematic):

Incorrect wiring:

D2-X3.79 - I2C_0
 D2-X3.80 - I2C_1
 D2-X3.77 - I2C_2
 D2-X3.78 - I2C_3

Correct wiring:

D2-X3.79 - I2C_1 (SDA1)
 D2-X3.80 - I2C_0 (SCL1)
 D2-X3.77 - I2C_3 (SDA2)
 D2-X3.78 - I2C_2 (SCL2)