

RFID Guardian Project
<http://www.rfidguardian.org>

Guardian V3 Errata **FOR HARDWARE REV. B**

Version : 0.1
Date : October 26, 2007

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Introduction

This document treats all the know errata for the RFID Guardian V3 HW REV B. If you find any error in the documentation of the Guardian V3 HW REV B. or in the actual hardware please contact the hardware people (see first page for e-mail address).

Errors are resolved in two different ways:

The errors can be corrected in actual hardware (in the current prototypes) and/or in the schematics and layout. It's clearly stated at each error if it is resolved in one or both ways.

Know Errata

The schematic for the backplane has an error in connector HD6 (JTAG Connector see sheet 3/5 from the guardian_v3_Back_Plane schematics).

The 3.3V supply is connected to pin 8 but should be connected to pin 2.

Side effects: If one connects the delivered JTAG parallel programmer to HD6, the JTAG appears to be dead. There will be no short or something hazardous.

How to correct: Connect pin 2 to 3.3V and leave pin 8 as it is, or remove 3.3V from pin 8 and connect it to pin 2 instead. Either solution is good.

Corrected?:

Actual hardware:	Schematics and layout
Yes	No

In the schematics for the guardian_V3_sampling_board the “B” channel of the ADC is connected but this should be the A channel.

Side effects: due to this error only channel B can be used (instead of A and B) this is not so much of a problem since only one channel is used.

Corrected?

Actual hardware	Schematics and layout
No	Only on layout

On the Button led board the base resistors for Q2 and Q3 are not placed.

Side effects: The current into the base of the transistor will not be know.

How to correct: Add 1k resistors in the path from the PXA270 to the base of the Transistor.

Corrected?

Actual hardware	Schematics and layout
Yes	No

Disclaimer.

The information in this document is delivered “as-is”. Nothing claims to work, however the proposed fixes worked for us, we do not imply that the fixes have the same result for you. However the fixes might be usefull if you encounter any related problems.