

ES_P89LPC9241

Errata sheet P89LPC9241

Rev. 02 — 8 March 2010

Errata sheet

Document information

Info	Content
Keywords	P89LPC9241 errata
Abstract	<p>This errata sheet describes both the known functional problems and any deviations from the electrical specifications known at the release date of this document.</p> <p>Each deviation is assigned a number and its history is tracked in a table at the end of the document.</p>



Revision history

Rev	Date	Description
02	20100308	<ul style="list-style-type: none">The format of this errata sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.Removed DIVM.1
01	20090529	Initial version.

Contact information

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1. Product identification

The P89LPC9241 devices typically have the following top-side marking:

```
P89LPC9241x x
xxxxxxx xx
xxYYWW R
```

The last letter in the last line (field 'R') will identify the device revision. This Errata Sheet covers the following revisions of the P89LPC9241:

Table 1. Device revision table

Revision identifier (R)	Revision description
'L'	Initial device revision

Field 'YY' states the year the device was manufactured. Field 'WW' states the week the device was manufactured during that year.

2. Errata overview

Table 2. Functional problems table

Functional problems	Short description	Revision identifier
ADC.1	Single Step mode multi channel boundary interrupt	'L'

Table 3. AC/DC deviations table

AC/DC deviations	Short description	Revision identifier
-	-	-

Table 4. Errata notes

Note	Short description	Revision identifier
-	-	-

3. Functional problems detail

3.1 ADC.1: Single Step mode multi channel boundary interrupt

Introduction:

The ADC on the P89LPC9241 is an Analog to Digital converter with 8 bits of resolution. The ADC has features such as a Single Step mode where the ADC will step through the selected channels on each ADC start condition.

Problem:

When the ADC is in Single Step mode with more than 1 channel selected, and a boundary interrupt occurs to any of the lower selected channel-bits, a write to the ADMODA register to clear the BNDI bit before all the selected channels are converted will reset the channel selection counter and the ADC will go back and wait at the lowest selected channel for the next conversion. This applies to both ADC0 and ADC1 on the P89LPC9241.

Work-around:

1. Clear the lower channel bits including the boundary interrupted channel in ADCINS register before the next start request.
2. Use the default boundary channel, not clear BNDI bit until all channels are converted.

4. AC/DC deviations detail

No known errata

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