

# ES\_P89LPC9161

Errata sheet P89LPC9161

Rev. 01 — 5 February 2010

Errata sheet

## Document information

Info	Content
<b>Keywords</b>	P89LPC9161 errata
<b>Abstract</b>	<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
01	20100205	Added ADC.1

**Contact information**

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## 1. Product identification

The P89LPC9161 devices typically have the following top-side marking:

P89LPC9161 x x  
 xxxxxxxx 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 P89LPC9161:

**Table 1. Device revision table**

Revision identifier (R)	Revision description
'R'	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	Detailed description
ADC.1	Single step mode multi channel boundary interrupt	'R'	<a href="#">Section 3.1 on page 4</a>

**Table 3. AC/DC deviations table**

AC/DC deviations	Short description	Revision identifier	Detailed description
n/a	n/a	n/a	n/a

### 3. Functional problems detail

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

**Introduction:**

The ADC on the P89LPC9161 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 ADC1 on the P89LPC9161.

**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

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#### 4.1 No known errata

## 5. Legal information

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