
MCP3911 Rev. C Silicon Errata and Data Sheet Clarification

The MCP3911 parts you have received conform functionally to the Device Data Sheet (DS20002286C), except for the anomalies described in this document.

All the issues listed here will be addressed in future revisions of the MCP3911 silicon.

Contact Microchip Technology Inc. for the latest Silicon fix.

Silicon Errata Issues

<p>Note: This document summarizes all silicon errata issues from all revisions of silicon, previous as well as current.</p>
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Data Sheet Clarifications

The following typographic corrections and clarifications are to be noted for the latest version of the device data sheet (DS20002286C):

None to report at this time.

1. Module: MDAT Output Pins

The Modulator Data Output pins (MDAT) of this version of silicon are not functional. No activity will be seen on these pins.

Work around

If you are currently using this functionality of the MCP3911 device, it is advised that you migrate to the future derivative of the MCP3911.

2. Module: ADC Conversion

The converter internal phases can be erroneously generated if there is a simultaneous occurrence of a master clock edge and a reset event (a $\overline{\text{RESET}}$ pin rising edge, the last SCK rising edge of a write communication that generates an ADC reset and restart as defined in [Section 6.8 “Situations that Reset ADC Data”](#) or a Power-on Reset). This perturbation in the internal clock phase generation can cause modulator instability and generate erroneous results, so it is highly recommended to avoid these events becoming synchronized.

Work around

A possible work around of this issue is to freeze the master clock during all the above detailed events (a $\overline{\text{RESET}}$ pin rising edge, the last SCK rising edge of a write communication that generates an ADC reset and restart as defined in [Section 6.8 “Situations that Reset ADC Data”](#) or a Power-on Reset). In this case, the part will not exhibit any issue.

MCP3911

APPENDIX A: DOCUMENT REVISION HISTORY

Rev B Document (07/2015)

- Added [ADC Conversion](#) issue and [Work around](#).

Rev A Document (10/2013)

- Initial release of this document.

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