The intention of this errata technical note is to give a detailed description of any known functional or electrical issues with the FTDI FT245BL/BQ/BM devices. The current revision of the FT245BL is revision A, released Jan 2005.
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FT245B Revision

FT245B part numbers are listed in Table 1. The letter at the end of date code identifies the device revision.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT245BM</td>
<td>32 Pin LQFP</td>
</tr>
<tr>
<td>FT245BL</td>
<td>32 Pin LQFP</td>
</tr>
<tr>
<td>FT245BQ</td>
<td>32 Pin QFN</td>
</tr>
</tbody>
</table>

Table 1 FT245B Part Numbers

This errata technical note covers the revisions of FT245B listed in Table 2

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Revision</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT245BM</td>
<td>1</td>
<td>First device revision has no number after the part number</td>
</tr>
<tr>
<td>FT245BM</td>
<td>2</td>
<td>Second Device revision has a -1 after the part number</td>
</tr>
<tr>
<td>FT245BL</td>
<td>1</td>
<td>First device revision has no number after the part number</td>
</tr>
<tr>
<td>FT245BQ</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2 FT245B Revisions
## 2 Errata History Table – Functional Problems

<table>
<thead>
<tr>
<th>Functional Problem</th>
<th>Short description</th>
<th>Errata occurs in device revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT245BM/BQ/BL</td>
<td>Bitbang pulse width not stable</td>
<td>-,-1</td>
</tr>
</tbody>
</table>

### 2.1 Errata History Table – Electrical and Timing Specification Deviations.

<table>
<thead>
<tr>
<th>Deviations</th>
<th>Short description</th>
<th>Errata occurs in device revision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 Functional Problems of FT245BM/BL/BQ

3.1 First Revision

3.1.1 BitBang Mode variable Pulse Width

Introduction:

BitBang is a mode the device may be put into to allow free running data to be clocked in/out of the device without any control bits.

Problem:

The output may be clocked out at different speeds to allow for different pulse widths. However this clocking stage is not synchronized with the incoming data and can result in the pulse widths varying unexpectedly on the output.

Workaround:

Set the clock divisor to 1 (baud rate = 3,000,000) and pad the data field with extra 1’s or 0’s to achieve the required pulse width for each bit.

Package specific:

The effected packages are listed in Table 3

<table>
<thead>
<tr>
<th>Package</th>
<th>Applicable (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT245BM</td>
<td>Y</td>
</tr>
<tr>
<td>FT245BL</td>
<td>Y</td>
</tr>
<tr>
<td>FT245BQ</td>
<td>Y</td>
</tr>
</tbody>
</table>

Table 3
4 Electrical and Timing specification deviations of FT245B

4.1 First Revision

There are no known electrical or timing problems with any revision of silicon.
5 FT245B Package Markings

FT245BM is available in a non-RoHS Compliant package, 32 pin LQFP. An example of the markings on the package is shown in Figure 3-1.

FT245B is available in two RoHS Compliant packages, 32 pin LQFP and 32 pin QFN. An example of the markings on each package is shown in Figure 5-2.

Note that there are two date code formats used - XXYY = Date Code where XX = 2 digit year number, YY = 2 digit week number; or XYY-N where X = 1 digit year number, YY = 2 digit week number, and -N is an integer.

Figure 5-1 Package Markings – FT245BM

Figure 5-2 Package Markings – FT245BL/FT245BQ
6 Contact Information

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## Appendix C – Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Draft</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft</td>
<td>First Draft</td>
<td>04/05/2010</td>
</tr>
<tr>
<td>1.0</td>
<td>First Release</td>
<td>19/11/2010</td>
</tr>
</tbody>
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