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Bulletin Date: 7/10/2015		Bulletin Effective Date: 7/10/2015	
Title: Si5347, Si5346, Si5345, Si5344, Si5342, Si5341, Si5340 Rev 1.0 Datasheet availability			
Originator: Murali Chandran		Phone: (512) 464-9278	Dept: Timing Marketing
Customer Contact: Kathy Haggar		Phone: (512) 532-5261	Dept: Sales
Bulletin Details			
Description:			
Silicon Labs is pleased to announce the availability of version 1.0 datasheets for the following products:			
<ul style="list-style-type: none"> - Si5347 - Si5346 - Si5345 - Si5344 - Si5342 - Si5341 - Si5340 			
Datasheet changes are summarized below:			
Si5347/46	Si5345/44/42	Si5341/40	
Updated minimum input frequency spec to 0.008 MHz.	Updated minimum input frequency spec to 0.008 MHz.	Updated text and formatting in Tables 2,3,4,5,8,11 and 12.	
Corrected AC Test Configuration Schematic.	Corrected AC Test Configuration Schematic.	Corrected AC Test Configuration Schematic.	
Updated FINC/FDEC update rates to 1 μ s maximum	Updated FINC/FDEC update rates to 1 μ s maximum	Added crosstalk spec for Si5340 to Table 5.	
Corrected XAXB VIN_DIFF minimum input voltage swing in Table 3.	Corrected PLL lock time spec to 500 ms typical and 600 ms max.	Updated Vin_diff minimum value in Table 3 to be the same as Vin_se.	
Modified VIN input voltage swing to be split into VIN_DIFF and VIN_SE for differential and single-ended inputs	Added common-mode voltage spec for 1.8 V LVDS (Sub-LVDS) in Table 5.	Updated the PLL lock time in Table 8.	
Added 4-Output Si5347C and Si5347D grade parts to the datasheet.	Removed SPI Tr/Tf from Table 10	Added a spec to Table 8 for the VCO frequency range.	
Added common-mode voltage for 1.8 V sub-LVDS in Table 5.	Corrected XAXB minimum input voltage swing spec from 350 to 365 mV.	Updated the "Delay Time Between Chip Selects" to be 2.0 clock periods.	
Added typical crosstalk spec for Si5346	Added typical crosstalk spec for Si5342 and Si5344.	Updated Note 2 in Table 12 to state that only 25 and 48–54 Mhz crystals are supported.	
Updated TSK, output-to-output skew, in Table 5.	Corrected INx voltage swing spec and split into single-ended and differential inputs requirements.	Added a 1.0 μ f bypass capacitor recommendation to be consistent with the reference manual. 1.0	
Updated ZO, differential output impedance for Low Power Mode in Table 5.	Updated max IDDOx spec for LVDS output from 17 to 18 mA.	Updated the timing specs for I2C and SPI.	
Updated SPI timing diagrams and spec.	Updated SPI timing diagrams and spec.		
Corrected tSTART, tACQ, and tRDY in Table 8.	Updated max normal mode LVPECL output voltage swing from 950 to 1000 mVpp_se.		
Adjusted LVCMOS VOH specification in Table 6.	Updated max VCM specs.		

Reason:

Datasheets now reflect the results of full production characterization data.

Product Identification:

Affected products can be identified by the following Orderable Part Numbers (OPNs):

BASE DEVICES are:

- Si5347x-B-GM where x = A, B, C, D
- Si5346x-B-GM where x = A, B
- Si5345x-B-GM where x = A, B, C, D
- Si5344x-B-GM where x = A, B, C, D
- Si5342x-B-GM where x = A, B, C, D
- Si5341x-B-GM where x = A, B, C, D
- Si5340x-B-GM where x = A, B, C, D

CUSTOM FACTORY PRE-PROGRAMMED DEVICES are:

- Si5347x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence
- Si5346x-Byyyyy-GM where x = A, B and yyyyy=custom part number sequence
- Si5345x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence
- Si5344x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence
- Si5342x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence
- Si5341x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence
- Si5340x-Byyyyy-GM where x = A, B, C, D and yyyyy=custom part number sequence.

This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a customer courtesy.

Please contact your local Silicon Labs sales representative with any questions about this notification. A list of Silicon Labs sales representatives may be found at www.silabs.com

Customer Actions Needed:

Download and begin using version 1.0 datasheets from the website

- [Si5347](#)
- [Si5346](#)
- [Si5345](#)
- [Si5344](#)
- [Si5342](#)
- [Si5341](#)
- [Si5340](#)

Review the document history to understand the implemented changes.