



## Revision Change Notice #1609271

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<b>PCN Date:</b> 9/27/2016		<b>Effective Date:</b> 1/2/2017	
<b>Title:</b> CPT112S Revision A02			
<b>PCN Type:</b>			
<input checked="" type="checkbox"/> <b>Datasheet</b>			
<input checked="" type="checkbox"/> <b>Product Revision</b>			
<b>PCN Details</b>			
<b>Description of Change:</b>			
Silicon Labs is pleased to announce revision A02 of CPT112S devices and revision 1.2 of the corresponding datasheet for these products.			
The CPT112S A01 devices spend more time than intended in active and optimized active modes when performing sleep mode scans. This causes the overall current consumption of the A01 devices to increase. Revision A02 resolves the current consumption issue in Revision A01.			
After the effective date of this PCN, Silicon Labs reserves the right to deliver CPT112S-A02-GM for customers ordering CPT112S-A01-GM.			
<b>Reason for Change:</b>			
CPT112S Rev A02 release CPT112S Datasheet 1.2 release			
<b>Impact on Form, Fit, Function, Quality, Reliability:</b>			
There is no impact to form, fit, quality and reliability			
<b>Product Identification:</b>			
Existing Part Number		Replacement Part Number	Drop in Compatible Indicator
CPT112S-A01-GM		CPT112S-A02-GM	Yes
CPT112S-A01-GMR		CPT112S-A02-GMR	Yes
Note: The part numbers above include tape and reel variants which are denoted with an "R" at the end of the orderable part number.			
<b>Last Date of Unchanged Product:</b> 1/2/2017			
<b>Qualification Samples:</b>			
Samples are available now. Please contact your Silicon Labs sales representative to order samples. A list of Silicon Labs sales representatives is available at <a href="http://www.silabs.com">www.silabs.com</a> .			



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Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at [www.silabs.com](http://www.silabs.com).

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

### Customer Early Acceptance Sign Off:

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance:    Date: \_\_\_\_\_

   Name: \_\_\_\_\_

   Company: \_\_\_\_\_

Email your early Acceptance approval to: [katherine.hagggar@silabs.com](mailto:katherine.hagggar@silabs.com)

### Qualification Data:

See Appendix.

**Appendix**

**CPTxxx Qualification Report**



**W7101F1 - Product Qualification Report Record Rev. H**

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CPTxxx, TSMC 0.18um Fabrication							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests- ASECL - QFN - CuPdWire							
HAST	JA110 100°C, 85%RH Vcc=3.6V, 264 hours	3 lots, N=>25	Q33300	0/40	1		
			Q33303	0/40	1		
			Q33411	0/40	1		
			Q33408	0/40	1	5 lots	Pass
			Q33138	0/40	1	0/200	
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q33302	0/40	1		
			Q33413	0/40	1		
			Q33410	0/40	1	4 lots	Pass
			Q33337	0/29	1	0/149	
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q33412	0/40			
			Q33409	0/40		3 lots	Pass
			Q33336	0/28		0/108	
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	JA108 T <sub>J</sub> ≥ 125°C, Dynamic Vcc=3.6V, 1000 hours	3 lots, N=>77	Q27065	0/88			
			Q28301	0/80		3 lots	Pass
			Q28955	0/80		0/248	
LTOL	JA108 T <sub>A</sub> = -10°C, Dynamic Vcc=3.6V, 1000 hours	1 lot, N=>32	Q25548	0/39		1 lots 0/39	Pass
ELFR	JA108 T <sub>J</sub> ≥ 125°C, Dynamic Vcc=3.6V, 48 hours	3 lots, N=>500	Q27592	0/520			
			Q28218	0/514			
			Q28868	0/516		4 lots	Pass
			Q29440	0/492		0/2042	
NVM Endurance, Retention and Operating Life	AEC Q100-005 25°C	3 lots, N=>38	Q26230	0/40			
			Q26233	0/40			
			Q28728	0/156		4 lots	Pass
			Q28730	0/156		0/392	
NVM Endurance, Retention and Operating Life	AEC Q100-005 125°C	3 lots, N=>39	Q26231	0/40			
			Q26232	0/40			
			Q28727	0/126		4 lots	Pass
			Q28729	0/126		0/332	

**CPTxxx Qualification Report**



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<b>CPTxxx, TSMC 0.18um Fabrication</b>							
<b>Test Name</b>	<b>Test Condition</b>	<b>Qualification</b>	<b>Lot ID or Start</b>	<b>Fail/Pass or End</b>	<b>Notes</b>	<b>Summary</b>	<b>Status</b>
<b>Test Group E – Electrical Verification</b>							
ESD-HBM	JA114	1 lot, N=>3	Q33027				2.5kV
ESD-CDM	JC101	1 lot, N=>3	Q33238				2kV
Latch Up	JESD78 ±200mA Overvoltage = 3.6V	1 lot, N=>3	Q33029 Q33028	85 °C 25 °C			Pass Pass

Notes:

1 - Preceeded by MSL1, 260°C Preconditioning

This report applies to the following part numbers:
CPT007B-A02-GM CPT112S-A02-GM