



Process Change Notice #1308221

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PCN Date: 8/22/2013		Effective Date: 11/22/2013	
Title: C8051F96x Revision B			
Originator: Atsushi Ninomiya		Phone: 512-532-5828	Dept: Marketing
Customer Contact: Kathy Haggar		Phone: 512-532-5261	Dept: Inside Sales
PCN Type:			
<input checked="" type="checkbox"/> Datasheet	<input type="checkbox"/> Foundry	<input type="checkbox"/> Packing	
<input checked="" type="checkbox"/> Product Revision	<input checked="" type="checkbox"/> Assembly	<input type="checkbox"/> Labeling	
<input type="checkbox"/> Discontinuance	<input type="checkbox"/> Test	<input type="checkbox"/> Other	
Last Order Date: 11/22/2013			
PCN Details			
Description of Change:			
Silicon Laboratories is pleased to announce revision B of C8051F96x devices and version 1.0 of the corresponding datasheet for these products.			
The hardware revision B change includes:			
<ul style="list-style-type: none">- Changed bond pad design for copper-palladium bond wire- REVID: Revision Identification SFR updated			
The datasheet revision 1.0 includes the following changes:			
<ul style="list-style-type: none">- Changed revision in ordering information from A to B- Fixed inconsistencies in VIORF pin definitions- Added note about IFBANK usage- Updated Table 4.4 Digital Supply Current - Sleep Mode (LCD disabled, RTC disabled) 3.6V, 25C maximum to 0.23uA- Fixed inconsistencies in description of reset behavior- Added encryption/decryption times to SFR Definition 14.1- Fixed inconsistencies in SFR Definition 14.2- Fixed inconsistencies in Port P2 through P7 SFR Definitions- All TBD specifications have been determined			
Silicon Laboratories is pleased to announce the successful qualification of copper-palladium bond wire for the revision B of C8051F96x devices. Silicon Laboratories has proactively invested in copper-palladium bond wire process to insulate customer from the impact of escalating gold prices and secure extra capacity. To date, Silicon laboratories has been absorbing the rising cost of gold.			
After the effective date of this PCN, Silicon Laboratories reserves the right to deliver C8051F96x-B-GM/GQ for customers ordering C8051F96x-A-GM/GQ. Silicon Laboratories will not change the orders for C8051F96x-B-GM/GQ.			
Reason for Change:			
C8051F96x hardware revision B release C8051F96x datasheet revision 1.0 release Bondwire change from gold to copper			



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Impact on Form, Fit, Function, Quality, Reliability:

There is no impact to Fit, Quality or Reliability of the C8051F96x devices. All devices comply fully with datasheet parameters and quality levels.

There is no change required for board layout or soldering profiles. Products using Cu wire meet all Moisture Sensitivity Level (MSL) specifications and are a direct drop-in replacement for the existing packages. There are no changes to the mechanical specifications or drawings. Products using Cu wire meet all RoHS requirements where applicable.

The reset value of REVID SFR will read 0x02 for Revision B instead of 0x01 for Revision A.

Product Identification:

The following orderable part numbers are affected:

After the effective date of this PCN, Silicon Laboratories reserves the right to deliver C8051F96x-B-GM/GQ for customers ordering C8051F96x-A-GM/GQ.

C8051F960-A-GM
C8051F960-A-GQ
C8051F961-A-GM
C8051F962-A-GM
C8051F962-A-GQ
C8051F963-A-GM
C8051F964-A-GM
C8051F964-A-GQ
C8051F965-A-GM
C8051F966-A-GM
C8051F966-A-GQ
C8051F967-A-GM
C8051F968-A-GM
C8051F968-A-GQ
C8051F969-A-GM

Silicon Laboratories will not change the orders for C8051F96x-B-GM/GQ.

C8051F960-B-GM
C8051F960-B-GQ
C8051F961-B-GM
C8051F962-B-GM
C8051F962-B-GQ
C8051F963-B-GM
C8051F964-B-GM
C8051F964-B-GQ
C8051F965-B-GM
C8051F966-B-GM
C8051F966-B-GQ
C8051F967-B-GM
C8051F968-B-GM
C8051F968-B-GQ
C8051F969-B-GM

Note: The part numbers above include tape and reel variants which are denoted with an “R” at the end of the orderable part number.

Last Date of Unchanged Product: 11/22/2013

