

**Purpose:** This Product Change Notification (PCN) is to provide notification to PHYTEC customers of component, process or other relevant engineering changes on a PHYTEC hardware subassembly. Impact, qualification, validation and approval of this change shall be documented on the corresponding Customer-Specific Modification (KSM/KSP) form for the PHYTEC hardware subassembly

Per JEDEC Standard JESD46-D Section 3.2.3; lack of acknowledgment of this PCN within 30 days constitutes acceptance of change

Type of Change		
Notice Date: <b>2017. 12.05</b> <yyyy.mm.dd>	LPN #: <b>LPN-182e_4</b>	
<input type="checkbox"/> Major Change <input checked="" type="checkbox"/> Minor Change		
<b>Description of Change:</b> Redesign of the schematic and PCB to extend Reset input signal duration. The redesign fixes an issue where in some use cases the Reset impulse on X_RESET_OUTn was too short for the devices connected such as the on board Ethernet PHY (LAN8710AI-EZK). If the Signal X_RESET_OUTn on the Carrier Board is in use and used for a power up sequence, then test the change in-system.		
<b>Referenced Documents:</b>		
<b>Type of Change:</b> <input type="checkbox"/> Lifecycle change to <input checked="" type="checkbox"/> Component change <input type="checkbox"/> Software update <input type="checkbox"/> Other	<b>Component Change</b> <input type="checkbox"/> Controller <input checked="" type="checkbox"/> PCB <input type="checkbox"/> RAM <input type="checkbox"/> FLASH <input type="checkbox"/> Other	<b>Software Update necessary</b> <input type="checkbox"/> Linux <input type="checkbox"/> Android <input type="checkbox"/> Windows <input checked="" type="checkbox"/> Other
Product Affected		
<b>Affected PHYTEC Productgroup:</b> phyCORE-AM335		
<b>Affected PHYTEC Productgroup Part:</b> PCM-051		
Anticipated impact on Form, Fit, Function, EMI, Quality or Reliability (positive / negative):		
(1) No impact in form, fit or function (2) Signal X_RESET_OUTn on the Primary Connector X3-B13 extended to minimum 180 ms		
Possible Measures		
<input checked="" type="checkbox"/> Change to new PHYTEC product revision with replacement part <input type="checkbox"/> Change to different option of product <input type="checkbox"/> Change to different PHYTEC Product <input type="checkbox"/> Interims stock \ final stock		
Schedule		
<b>Last Time Buy (current product version):</b> . . <yyyy.mm.dd> (Last date to set an order for the current product version) <b>ORDERS ARE NON-CANCELABLE AND NON-RETURNABLE.</b>		
<b>Samples of new PHYTEC product revision orderable:</b> 2017.01.02		
<b>Planned Mass production of new PHYTEC product revision:</b> Q1/2017                      (in dependence from stock)		

Product Affected	
Affected Product Number	Replacement Product Number
all PCM-051 Standard Options	
PCM-051-KSMxy.Az	PCM-051-KSMxy.Az+1
PCM-051-KSPxy.Az	PCM-051-KSPxy.Az+1

Engineering Change (Component, Firmware, Process, other)		
Current Part		New Part
PL1358.3	<b>PHYTEC Internal Part #</b>	PL1358.4
Phytec	<b>Manufacturer</b>	Phytec
PL1358.3	<b>Manufacturer Part #</b>	PL1358.4
PCM-051 PCB	<b>Description</b>	PCM-051 PCB

Technical Parameter			
Parameter	Original <b>PL1358.3</b>	Replacement <b>PL1358.4</b>	Assess- ment <sup>1</sup>
Length x Width	50 mm x 44 mm	50 mm x 44 mm	2
Height	8 mm to 10 mm	8 mm to 10 mm	2
Positions of components	identical with the existing components	identical with the existing components	2
Length of Signal X_Reset_OUTn	dependent on the Reset source (Controller, Treshold Voltage, Extern) and assembly of MAX16040	Min. 180 ms	

<sup>1</sup> Assessments:  
 1: Effects are to be expected  
 2: No negative effects are to be expected

PHYTEC Qualification	
The new product(s) were qualified according to our Company qualification procedure and best practices.	
<input type="checkbox"/> PCB redesign was necessary, because	<input type="checkbox"/> Software Adaption was necessary, because Linux:  Windows:  Android:
<input type="checkbox"/> Software tests were conducted with  BSP for testing:  Test program:	

Recommended Measures for Customer
<input type="checkbox"/> Software update or patch <input type="checkbox"/> Linux BSP: <input type="checkbox"/> backward compatible Link: <input type="checkbox"/> Windows BSP: <input type="checkbox"/> backward compatible Link: <input type="checkbox"/> Android BSP: <input type="checkbox"/> backward compatible Link:
<input type="checkbox"/> Update Programming Tool
<input checked="" type="checkbox"/> Fit integration test with your system and case. Phytec recommends that customers take this opportunity to review these changes against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

**Note:**  
 Technical differences and similarities in the tables above may not be complete. Please refer to the manufacture datasheets for a complete comparison.

Please contact our order team to ask for an interims or final stock for components or PHYTEC products.  
Please contact our support, if you need any further information.

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### Revision History of the Document

\_1: Initial Document  
\_4: new Document format

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