

**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>2017.09.25</b> <yyyy.mm.dd>		LPN #: <b>LPN-275e_2</b>
<input type="checkbox"/> Major Change <input checked="" type="checkbox"/> Minor Change		
<b>Description of Change:</b> Cypress announced the obsolescence of select NOR Flash products from its portfolio following an internal review and business decision to discontinue support. The approved replacement part is the Macronix MX25L6406EZNI-12G for phyCORE-AM335 Rev1 based Products. Alternative phyCORE-AM335 Rev. 2 based Product can be used with an other NOR Flash. In this case a Software Change (other Yocto machine) is necessary, too (Major Change)		
<b>Samples are only available for KSP Variants with approval parts, because this change is a Minor Change</b>		
<b>Referenced Documents:</b> Cypress Product Termination Notification		
<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 type="checkbox"/> PCB <input type="checkbox"/> RAM <input type="checkbox"/> FLASH <input checked="" type="checkbox"/> Other NOR Flash	<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, phyBOARD-WEGA, phyBOARD-Maia, phyBOARD-Regor		
<b>Affected PHYTEC Productgroup Part:</b> PCM-051\PCL-051, PB-00802, PB-00702, PB-01802		
Anticipated impact on Form, Fit, Function, EMI, Quality or Reliability (positive / negative):		
(1) no impact in fit, form or function		
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 checked="" type="checkbox"/> Change to different PHYTEC Product phyCORE-AM335 Rev.2 PCM-060 <input checked="" type="checkbox"/> Interims stock \ final stock		
Schedule		
<b>Last Time Buy (current product version):</b> <b>2017.09.25</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> 05.09.2017 (only from KSP variants with approval components)		
<b>Planned Mass production of new PHYTEC product revision:</b> Q4/2017 (in dependence from stock)		

Product Affected	
Affected Product Number	
PCM-051-12102FOC.A1	
PCM-051-12153EOI.A0	
PCM-051-12143FOI.A1	
PCM-051-12113FOI.A1	
PCM-051-12102FOI.A2	
PCM-051-12102FOC.A3	
PB-00802-310I.A1	
PB-00802-320I.A1	
PB-00802-005.A1	
PB-00802-013.A1	
PB-01802-002.A0	
PB-00702-006.A1	
PB-01802-001.A3	
PB-00702-004.A2	
PB-00702-002.A2	

Engineering Change (Component, Firmware, Process, other)		
Current Part		New Part
IM730	<b>PHYTEC Internal Part #</b>	IM878 H600280
Cypress	<b>Manufacturer</b>	Macronix
S25FL064P0XNFI00	<b>Manufacturer Part #</b>	MX25L6406EZNI-12G
8MB Quad SPI Flash	<b>Description</b>	8M Dual SPI Flash

Technical Parameter			
Parameter	Original <b>S25FL064P0XNFI00</b>	Replacement <b>MX25L6406EZNI-12G</b>	Assess- ment <sup>1</sup>
Package Pitch, Form	8-WSON, 6 mm x 8 mm with 1.27 mm Pitch	8-WSON, 6 mm x 8 mm with 1.27 mm Pitch	2
Temperature	-40 °C to + 85 °C	-40 °C to + 85 °C	2
Supply Voltage	2.7 V to 3.6 V	2.7 V to 3.6 V	2
Density	8 MByte	8 MByte	2
SPI Mode	max. Quad - SPI PCM-051 supports max. Dual SPI	max. Dual -SPI PCM-051 supports max. Dual SPI	2
Clock Frequency	max. 80 MHz	max. 86 MHz	2
Manufacture and Device ID	0x01 02 16 4D	0xc2 20 17	
Function and feature capabilities	CFI compliant JESD68	SFPD JESD216	2
Command Set	compatible to replacement	compatible to original	

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<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
- \_2: Change Affected Products

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