

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

Product affected / Release Date		
Notice Date: May 19, 2014	LPN #: LPN-129e_1	
Date of Change:	New Product Version:	
PHYTEC Subassembly: phyCARD-i.MX27		
PHYTEC Subassembly Part #: PCA-A-S1		
New PHYTEC Part #:		

Engineering Change (Component, Firmware, Process, other)			
Current Part		New Part	
IM602	PHYTEC Internal Part #	IM693 H600190	
Numonyx	Manufacturer	Hynix	
NAND01GR3B2CZA6E	Manufacturer Part #	HY27S1G8F2BFR-BI	
1 Gbit Nand Flash	Description	1Gbit Nand Flash	

Engineering Change Details		
Reason for Component Change: EOL at Numonix		
Referenced Component Documents: Information from 25.01.2011		



2/3

Impact of Change

- (1) Flash same form, fit and function
- (2) Different Device ID's

Measures taken by PHYTEC

- (1) Datasheet Check
- (2) Test in Climatic Chamber

Recommended Measures for Customer

- (1) None by Linux BSP
- (2) Integrate Manufacture and Device ID by WinCE BSP
- (3)

Technical Differences			
Parameter	Original NAND01GR3B2CZA6E	Replacement HY27S1G8F2BFR-BI	Assess- ment ¹
Read Cycle Time t _{RC}	50 ns	45 ns	3, 2
Device ID Codes	0x20 0xa1 0x80 0x15 0x02	0xAD 0xa1 0x00 0x15	2

LPN-129e_1

Assessments:

^{1:} Effects are to be expected

^{2:} No negative effects are to be expected

^{3:} Better than before

^{4:} Worse than before



Technical Similarities			
Parameter	Original NAND01GR3B2CZA6E	Replacement HY27S1G8F2BFR-BI	
Supply Voltage	1.7 V to 1.95 V		
Temperature	-40℃ to 85℃		
Package Pitch, Form	VFBGA63 9.5 mm x 12 mm, 0.8 mm pitch		
Data Retention	100k Program/Erase cycles (with 1bit/528byte ECC) 10 years Data Retention		
Device Command Set	Compatible		

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 support if you need any further information.

Germany and Europe (except France):	France:
+ 49 (6131) 9221-31	+ +33 (0) 2 43 29 22 33
support@phytec.de	support@phytec.fr
North America:	India:
+1 (206) 780-9047, or +1 (800) 278-9913	• +91 (80) 4130-7589
support@phytec.com	support@phytec.in