

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: . . . LPN **LPN-171e_1**

PHYTEC Subassembly: **MiniModul-535F**

Standard Product affected

Date of Change: KW

PHYTEC Subassembly Part #: MM-003-1CAQ18

New PHYTEC Part #: (New subassemblies can be identified via attached version number)

Engineering Change
(Component, Firmware, Process, other)

Current Part		New Part
IC050	PHYTEC Internal Part #	IC129
Siemens	Manufacturer	Infineon
SAB 80C515A-N18-T3	Manufacturer Part #	SAF-C515C-8EM
8-Bit CMOS Single-Chip	Description	8-Bit CMOS Single-Chip

Engineering Change Details

Reason for Component Change:
Discontinued of Simens Microcontroller

Referenced Component Documents:

Impact of Change

- (1) impact in fit, form and function
- (2) Replacement has lower max. MCU System Clock Rate of 10 MHz instead of 18 MHz
- (3) different sizes of memory, but partly different function set

Measures taken by PHYTEC

- (1) Datasheet comparison
- (2) Both Controller can use on same PCB
- (3) Pin output functionality is identically

Recommended Measures for Customer

- (1) Please compare Datasheet in detail for your Application

Technical Differences

Parameter	Original SAB 80C515A-N18-T3	Replacement SAF-C515C-8EM	Assess- ment ¹
Package	PLCC-68	MQFP-80	2
on chip XRam	1 kByte	2kBytes	
MCU Sytem Clock Rate	Max. 18 MHz	Max. 10 MHz	1

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 SAB 80C515A-N18-T3	Replacement SAF-C515C-8EM
Supply Voltage	Min. 4.25 V to Max. 5.5 V	
Ambient Temperature	-40°C to + 85 °C	
on-chip RAM	256 bytes	
lead-out function pins	identically, same Ports in use, but partly different Pin Numbers	
Address-\Data- Bus	available	

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.

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