

PRODUCT CHANGE NOTICE



PCN #	014242	Initiator	Sunny Suen	Date	2020-09-01
PCN Title	Flash memory die shrink from 90nm to 65nm for XVF3000/3100/3101-TQ128-C integrated flash products				

LEVEL OF CHANGE

Customer Approval

Customer Information

CHANGE AFFECTS

Material Change

Process Change

Design Change

Package Change

Datasheet Change
shrink

Others, please specify: flash memory die

DESCRIPTION OF CHANGE:

Flash memory die supplier ISSI has die-shrunk their flash memory integrated into XMOS XVF3000/3100/3101-TQ128-C products from 90nm to 65nm process technology with full functional compatibility between them. As a result, the 90nm flash memory has been discontinued and is EOL.

ANTICIPATED IMPACT:

The Jedec ID between the 90nm and 65nm flash memories has a 1-bit difference. This will cause production flash programming and Device Firmware Upgrade (DFU) processes to abort without storing data on the device. The solution is to add the Jedec ID of the new 65nm flash memory to the software/firmware of the affected products. XMOS will provide an advisory (XM-014244-DA) regarding the implementation of the solution. If customers shall encounter any problem, please raise a support ticket at www.xmos.ai under 'SUPPORT' menu item on top of the webpage or contact XMOS Sales for support.

The old and new devices are the same from both form and functionality perspectives.

All new orders should switch to new part numbers as soon as possible.

XMOS PART NUMBERS AFFECTED:

Please see part numbers table at bottom of this PCN.

CUSTOMER PART NUMBERS AFFECTED (If applicable):

N/A

IDENTIFICATION OF CHANGED PRODUCT (if applicable):

The new 65nm flash integrated products will use new part numbers with a suffix 'A'. The table provided below has the mapping between old 90nm flash part numbers and new 65nm flash part numbers for easy cross reference. In addition, the date code line on the top marking of new 65nm integrated flash devices will have 'A' suffix as well.



PROPOSED CHANGE SAMPLES AVAILABLE: 2020/08/31
PROPOSED CHANGE FIRST SHIP DATE: 2020 Q4
QUALIFICATION COMPLETION DATE: 2020 Q3
SUPPORTING DATA: ISSI 65nm flash reliability report:  CGS 8M~256M Combo series- Auto

Questions regarding this Product Change Notice should be addressed to sales@xmos.com

Affected Part Number (90nm)	New Part Number (65nm)
XVF3000-TQ128-C	XVF3000-TQ128-CA
XVF3100-TQ128-C	XVF3100-TQ128-CA
XVF3101-TQ128-C	XVF3101-TQ128-CA