

PRODUCT CHANGE NOTICE



PCN #	013138	Initiator	Matthew Harris	Date	2018-06-15
PCN Title	XK-USB-MIC-UF216 component change				

LEVEL OF CHANGE

- Customer Approval Customer Information

CHANGE AFFECTS

- Material Change Process Change
 Design Change Package Change
 Datasheet Change Others, please specify:

DESCRIPTION OF CHANGE:

The xCORE Array Microphone development platform (XK-USB-MIC-UF216) design has been updated to use the Infineon MEMS microphone IM69D130, taking advantage of the improved SNR performance and bringing this development kit into line with other XMOS microphone array kits. Additionally, the Akustica microphones used previously are obsolete and no longer available. This change is effective immediately.

ANTICIPATED IMPACT:

There is no change to the method of operation for this board. The signal-to-noise ratio for the IM69D130 is 69dB compared to 63dB for the previous Akustica microphone AKU441, which could produce higher quality audio. However, the IM69D130 has a sensitivity of -36dBFS compared to -26dBFS for the AKU441, therefore the updated board will generate output at a level 10dB lower. Any software that relies on microphone sensitivity may need re-tuning and/or gain applying.

XMOS PART NUMBERS AFFECTED:

XK-USB-MIC-UF216

CUSTOMER PART NUMBERS AFFECTED (if applicable):

n/a

IDENTIFICATION OF CHANGED PRODUCT (if applicable):

Kits affected by this change can be identified by the revision number of the board. Boards with revision number 2V0 or greater (identified on the top side silkscreen) are affected by this change note (the earliest date code for 2V0 boards is 1804).

The previous released version of this product is 1V4.

Questions regarding this PCN should be addressed to sales@xmos.com