

Product Change Notice – PCN2401-1

Keyboard Division

Issue Date: 17-07-24

Product Change Notice #: PCN2401-1

Change Title: PSoC keyboard controller upgrade for KSM(E)103-MC1, KSML/X106-MC1 keyboard range.

Change Type:

Assurance of supply – current PSoC keyboard controller scheduled for end of life and will be discontinued.

Parts affected:

NSI PART NUMBER	DESCRIPTION
KSM103YXXXX-Z-MC1	Marine keyboard without trackball (Variant identification below table)
KSME103YXXXX-Z-MC1	Marine keyboard with E50 trackball (Variant identification below table)
KSML106YXXXX-Z-MC1	Marine keyboard with 50mm trackball (Variant identification below table)
KSMX106YXXXX-Z-MC1	Marine keyboard with 50mm trackball (Variant identification below table)

Y: mounting method.

- Y = F panel mount keyboard
- Y = B panel mount keyboard with edge protection
- Y = S enclosed keyboard

XXXX: 4 digit code (0-9) indicating keyboard variants which differ in appearance, without changing the mechanical or electrical features or dimensions.

- 0XXX = standard keyboard with various country layouts, e.g.:
0001 = US qwerty layout
0032 = Belgian Azerty layout
- 1XXX-9XXX = other keyboard variants: custom front, carrier or firmware, custom colors.

Z: color code for the LED.

Z = W for white LEDs

Z = R for red LEDs

Z = G for green LEDs

Z = B for blue LEDs

Z = Y for yellow LEDs

Z = C for cyan LEDs

Z = M for magenta LEDs

MC1 = USB output protocol

Change Description:

The current PSoC keyboard controller will be replaced by an upgraded PSoC version of the same manufacturer.

Reason for Change:

The change has been made for assurance of supply – the current PSoC keyboard controller is scheduled for end of life and will be discontinued by the manufacturer.

Effect of Change on Fit, Form, Function, Quality, or Reliability:

Implementation of the PSoC keyboard controller will influence the keyboard specification with respect to function;

- Fit – No change
- Form – No change
- Function – see below

Change to Function:

The redesigned PCB, including the upgraded PSoC keyboard controller and new firmware, features a different backlight functionality to save energy and to harmonize the functionality across our entire product range.

The new keyboard type features backlighting dimmable at 8 levels by two dedicated keys:

- In a dark ambient environment the backlighting of the keys is switched on and the CAPS and NUM LOCK LED intensity adjusts together with the intensity of the backlighting of the keys (including off).
- In a light ambient environment the CAPS and NUM LOCK LED will shine at maximum intensity and the backlighting of the keys is switched off.

On the old keyboard type the backlighting of the keys was also on in a light ambient environment and didn't switch off automatically.

Effective Date of Change:

All keyboards will be supplied with the new PSoC keyboard controller starting from week 32 2024.

How Do I Track the Change?

The change can be tracked via the serial number indicated on the serial label which can be found adhered to all keyboards. The serial number has the following format: yyyy.12345.xxx
The middle part of the serial number is a 5-digit code identifying the production batch.
All production batch numbers higher than 38500 are produced with the upgraded PSoC keyboard controller with the exception of production batch 38763.
The production batches in the table below are also produced with the upgraded PSoC keyboard controller.

36270	36506	36507	36508	36509
36511	37182	37183	37650	38111
38202	38363	38425		

Qualification Data:

Appropriate quality and reliability testing has been performed on representative products to ensure performance is maintained in accordance with NSI quality and reliability standards. The redesigned PCB, including the upgraded PSoC keyboard controller and new firmware, has been assessed and complies with the IEC60945 maritime standard and the IACS E10 test specification for type approval.

For further information regarding qualification data please contact NSI or an appropriate sales representative.

Notification Response:

No response to this notification is required. Requests for additional data or support should be made within 30 days of notification. Please contact your NSI representative to obtain qualification samples.

DOCUMENT HISTORY

Version	Date	Author	Remarks
1	17/07/2024	AP	Document released