



Bringing technology to life

Feb 22<sup>nd</sup>, 2023

**Re: Notification of End-of-Life (EOL) of XS1 Product Family**

Dear Customer,

After 12 years in production, XMOS is now facing an EOL of key components used for the manufacture of its XS1 product family. As a result, we will no longer be able to manufacture XS1 after 2023.

Customers of XS1 have the option to migrate to more capable and higher performance parts using xcore-200 and xcore.ai products. Alternatively, we can offer our customers the opportunity of placing final orders based on the following key dates: -

1. Orders to be received by XMOS before Jul31<sup>st</sup>, 2023
2. Final shipments made by XMOS before Dec 31<sup>st</sup>, 2023

We anticipate higher customer ordering before Jul 31<sup>st</sup> and are confident we can supply any increased demands you will have on XMOS until the end of this year.

We are very grateful for your continued business and would like to offer you every assistance in moving your design to xcore-200 or xcore.ai.

Regards,

A handwritten signature in black ink, appearing to read 'Joe Connelly', with a stylized flourish at the end.

Joe Connelly  
Executive VP, Sales

# PRODUCT CHANGE NOTICE



<b>PCN #</b>	014832	<b>Initiator</b>	Tom Blackie	<b>Date</b>	2023-02-01
<b>PCN Title</b>	XS1 Product Range End of Life (EOL)				

## LEVEL OF CHANGE

- Customer Approval  Customer Information

## CHANGE AFFECTS

- Material Change  Process Change  
 Design Change  Package Change  
 Datasheet Change  Other: **End of Life**

## DESCRIPTION OF CHANGE:

The XMOS XS1 product range is currently not recommended for new designs and is now moving to end of life. It will be removed from sale on 31 July 2023.

## ANTICIPATED IMPACT:

n/a

## XMOS PART NUMBERS AFFECTED:

See Appendix A for detailed list

## CUSTOMER PART NUMBERS AFFECTED (If applicable):

n/a

## IDENTIFICATION OF CHANGED PRODUCT (if applicable):

n/a

## OBSOLESCENCE NOTIFICATION (If Applicable):

Last Time Buy Date	31 JULY 2023
Last Time Ship Date	31 DECEMBER 2023
Alternate Part Recommendation	See Appendix B

Questions regarding this Product Change Notice should be addressed to [sales@xmos.com](mailto:sales@xmos.com)

## Appendix A – Part 1

### LIST OF XMOS PART NUMBERS COVERED BY PCN 014832

#### XS1-L Devices

XS1-L4A-64-TQ48-C4	XS1-L10A-128-QF124-C8
XS1-L4A-64-TQ48-I4	XS1-L10A-128-QF124-C10
XS1-L6A-64-TQ48-C4	XS1-L10A-128-QF124-I8
XS1-L6A-64-TQ48-C5	XS1-L10A-128-QF124-I10
XS1-L6A-64-TQ48-I4	XS1-L10A-128-FB324-C8
XS1-L6A-64-TQ48-I5	XS1-L10A-128-FB324-C10
XS1-L6A-64-LQ64-C4	XS1-L10A-128-FB324-I8
XS1-L6A-64-LQ64-C5	XS1-L10A-128-FB324-I10
XS1-L6A-64-LQ64-I4	XS1-L12A-128-QF124-C8
XS1-L6A-64-LQ64-I5	XS1-L12A-128-QF124-C10
XS1-L6A-64-TQ128-C4	XS1-L12A-128-QF124-I8
XS1-L6A-64-TQ128-C5	XS1-L12A-128-QF124-I10
XS1-L6A-64-TQ128-I4	XS1-L12A-128-FB324-C8
XS1-L6A-64-TQ128-I5	XS1-L12A-128-FB324-C10
XS1-L8A-64-TQ48-C4	XS1-L12A-128-FB324-I8
XS1-L8A-64-TQ48-C5	XS1-L12A-128-FB324-I10
XS1-L8A-64-TQ48-I4	XS1-L16A-128-QF124-C8
XS1-L8A-64-TQ48-I5	XS1-L16A-128-QF124-C10
XS1-L8A-64-LQ64-C4	XS1-L16A-128-QF124-I8
XS1-L8A-64-LQ64-C5	XS1-L16A-128-QF124-I10
XS1-L8A-64-LQ64-I4	XS1-L16A-128-FB324-C8
XS1-L8A-64-LQ64-I5	XS1-L16A-128-FB324-C10
XS1-L8A-64-TQ128-C4	XS1-L16A-128-FB324-I8
XS1-L8A-64-TQ128-C5	XS1-L16A-128-FB324-I10
XS1-L8A-64-TQ128-I4	XS1-L8A-128-FB324-A8
XS1-L8A-64-TQ128-I5	XS1-L8A-128-FB324-A10
XS1-L8A-128-QF124-C8	XS1-L10A-128-FB324-A8
XS1-L8A-128-QF124-C10	XS1-L10A-128-FB324-A10
XS1-L8A-128-QF124-I8	XS1-L12A-128-FB324-A8
XS1-L8A-128-QF124-I10	XS1-L12A-128-FB324-A10
XS1-L8A-128-FB324-C8	XS1-L16A-128-FB324-A8
XS1-L8A-128-FB324-C10	XS1-L16A-128-FB324-A10
XS1-L8A-128-FB324-I8	
XS1-L8A-128-FB324-I10	

## Appendix A – Part 2

### LIST OF XMOS PART NUMBERS COVERED BY PCN 014832

#### XS1-A Devices

XS1-A8A-128-FB217-C8  
XS1-A8A-128-FB217-C10  
XS1-A8A-128-FB217-I8  
XS1-A8A-128-FB217-I10  
XS1-A10A-128-FB217-C8  
XS1-A10A-128-FB217-C10  
XS1-A10A-128-FB217-I8  
XS1-A10A-128-FB217-I10  
XS1-A12A-128-FB217-C8  
XS1-A12A-128-FB217-C10  
XS1-A12A-128-FB217-I8  
XS1-A12A-128-FB217-I10  
XS1-A16A-128-FB217-C8  
XS1-A16A-128-FB217-C10  
XS1-A16A-128-FB217-I8  
XS1-A16A-128-FB217-I10

#### XS1-U Devices

XS1-U6A-64-FB96-C5  
XS1-U6A-64-FB96-I5  
XS1-U8A-64-FB96-C5  
XS1-U8A-64-FB96-I5  
XS1-U8A-128-FB217-C10  
XS1-U8A-128-FB217-I10  
XS1-U10A-128-FB217-C10  
XS1-U10A-128-FB217-I10  
XS1-U12A-128-FB217-C10  
XS1-U12A-128-FB217-I10  
XS1-U16A-128-FB217-C10  
XS1-U16A-128-FB217-I10

## Appendix B - ALTERNATIVE PARTS

The XMOS XS1 range of devices was the first generation of the XMOS XCORE® processor architecture. This architecture is retained in the newer xcore200 and xcore.ai product ranges and software developed for XS1 can be recompiled for these later processors, benefiting from their higher performance and larger memory space.

Shown below are the current generation XMOS xcore.ai products that can be used as a replacement in many applications. For XS1 applications that use the analogue inputs an external ADC will also be required as xcore200 and xcore.ai do not support this function internally. Full information on these devices can be found at <https://www.xmos.ai/xcore-ai/>

EOL Part No	Cores	IO	USB	RAM	MIPS	Current Product	Cores	IO	USB	RAM	MIPS
XS1-L4A-64-TQ48	4	28		64	400	XU316-1024-QF60B	16	34	Y	1024	2400
XS1-L6A-64-TQ48	6	28		64	500	XU316-1024-QF60B	16	34	Y	1024	2400
XS1-L6A-64-LQ64	6	64		64	500	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L6A-64-TQ128	6	64		64	500	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L8A-64-TQ48	8	64		64	500	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L8A-64-LQ64	8	64		64	500	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L8A-64-TQ128	8	64		64	500	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L8A-128-QF124	8	84		128	1000	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L8A-128-FB324	8	88		128	1000	XU316-1024-FB265	16	128	Y	1024	2400
XS1-L10A-128-QF124	10	84		128	1000	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L10A-128-FB324	10	88		128	1000	XU316-1024-FB265	16	128	Y	1024	2400
XS1-L12A-128-QF124	12	84		128	1000	XU316-1024-TQ128	16	78	Y	1024	2400
XS1-L12A-128-FB324	12	88		128	1000	XU316-1024-FB265	16	128	Y	1024	2400

EOL Part No	Cores	IO	USB	RAM	MIPS
XS1-L16A-128-QF124	16	84		128	1000
XS1-L16A-128-FB324	16	88		128	1000
XS1-U6A-64-FB96	6	38	Y	64	500
XS1-U8A-64-FB96	8	38	Y	64	500
XS1-U8A-128-FB217	8	73	Y	128	1000
XS1-U10A-128-FB217	10	73	Y	128	1000
XS1-U12A-128-FB217	12	73	Y	128	1000
XS1-U16A-128-FB217	16	73	Y	128	1000

Current Product	Cores	IO	USB	RAM	MIPS
XU316-1024-TQ128	16	78	Y	1024	2400
XU316-1024-FB265	16	128	Y	1024	2400
XU316-1024-TQ128	16	78	Y	1024	2400
XU316-1024-TQ128	16	78	Y	1024	2400
XU316-1024-TQ128	16	128	Y	1024	2400
XU316-1024-TQ128	16	128	Y	1024	2400
XU316-1024-TQ128	16	128	Y	1024	2400
XU316-1024-TQ128	16	128	Y	1024	2400