



lib_gpio: GPIO abstraction for multibit ports (README)

Publication Date: 2025/6/18
Document Number: XM-010422-UG v2.2.0

IN THIS DOCUMENT

1	Summary	1
2	Features	1
3	Known issues	1
4	Development repo	2
5	Required tools	2
6	Required libraries (dependencies)	2
7	Related application notes	2
8	Support	2

vendor	XMOS
version	2.2.0
scope	General Use
description	GPIO abstraction for multibit ports
category	General Purpose
keywords	GPIO, multibit, ports
devices	xcore-200, xcore.ai

1 Summary

The XMOS GPIO library allows accessing xcore ports as low-speed GPIO. Although xcore ports can be directly accessed via the xC programming language this library allows more flexible usage. In particular, it allows splitting a multi-pin output/input port to be able to use the individual pins independently. It also allows accessing ports across separate XMOS tiles or separate XMOS chips.

2 Features

- Abstract interface to GPIO functionality of XMOS ports
- Allow control of individual bits of multi-bit ports
- Allow access to ports across tiles

3 Known issues

- None



4 Development repo

- ▶ [lib_gpio](#)

5 Required tools

- ▶ XMOS XTC Tools: 15.3.1

6 Required libraries (dependencies)

- ▶ lib_xassert (www.github.com/xmos/lib_xassert)

7 Related application notes

- ▶ None

8 Support

This package is supported by XMOS Ltd. Issues can be raised against the software at www.xmos.com/support



Copyright © 2025, All Rights Reserved.

Xmos Ltd. is the owner or licensee of this design, code, or Information (collectively, the "Information") and is providing it to you "AS IS" with no warranty of any kind, express or implied and shall have no liability in relation to its use. Xmos Ltd. makes no representation that the Information, or any particular implementation thereof, is or will be free from any claims of infringement and again, shall have no liability in relation to any such claims.

XMOS, xCore, xcore.ai, and the XMOS logo are registered trademarks of XMOS Ltd in the United Kingdom and other countries and may not be used without written permission. Company and product names mentioned in this document are the trademarks or registered trademarks of their respective owners.

