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# GPIO Library

The XMOS GPIO library allows you to access XMOS ports as low-speed GPIO

Although XMOS 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 the individual pins independently. It also allows accessing ports across separate XMOS tiles or separate XMOS chips.

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## Features

- Abstract interface to GPIO functionality of XMOS ports
- Allow separate access to multibit ports
- Allow access to ports across tiles

## Operating modes

- Multibit output for individual access to the pins of a multibit output port
- Multibit input for individual access to the pins of a multibit input port
- Multibit input for individual access to the pins of a multibit input port allowing the application to react to events on those pins

## Software version and dependencies

This document pertains to version 1.0.1 of this library. It is known to work on version 14.1.1 of the xTIMEcomposer tools suite, it may work on other versions.

This library depends on the following other libraries:

- lib\_xassert (>=2.0.0)

## Related application notes

The following application notes use this library:

- AN00166 - How to access individual pins of a multi-bit port