



KAmoRPi Pico Dual Expander



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Źródło: https://wiki.kamamilabs.com/index.php?title=KAmoRPi_Pico_Dual_Expander

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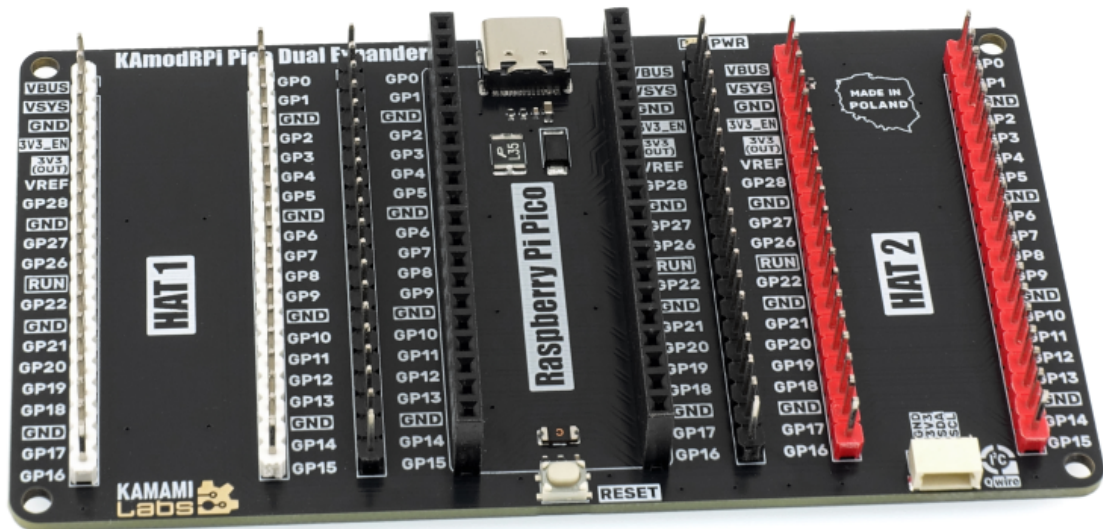
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Description

KAmoDRPi Pico Dual Expander - Dual Pin Expander for Raspberry Pi Pico

The board features a standard 2x20-pin female connector for direct connection to the Raspberry Pi Pico. It also has two sets of 2x20-pin male connectors for connecting additional expansion modules. The board also features a reset button, a USB Type-C power connector, an I2C Qwire connector (compatible with Qwiic/STEMMA QT), additional 20-pin male connectors with all RPi Pico signals, and pinout labels on the top side for easy prototyping.



Basic parameters

- Standard 2x20 pin female connector for Raspberry Pi Pico
- Two 2x20 pin male connectors for expansion modules
- 20-pin male connectors with all RPi Pico signals
- USB Type-C connector that supplies power to all modules connected to the expander
- RESET button
- 4-pin 1 mm JST SH Qwire I2C connector (compatible with Qwiic / STEMMA QT)
- Clear labels for all pins
- Dimensions: 59 x 104 mm

Standard Equipment

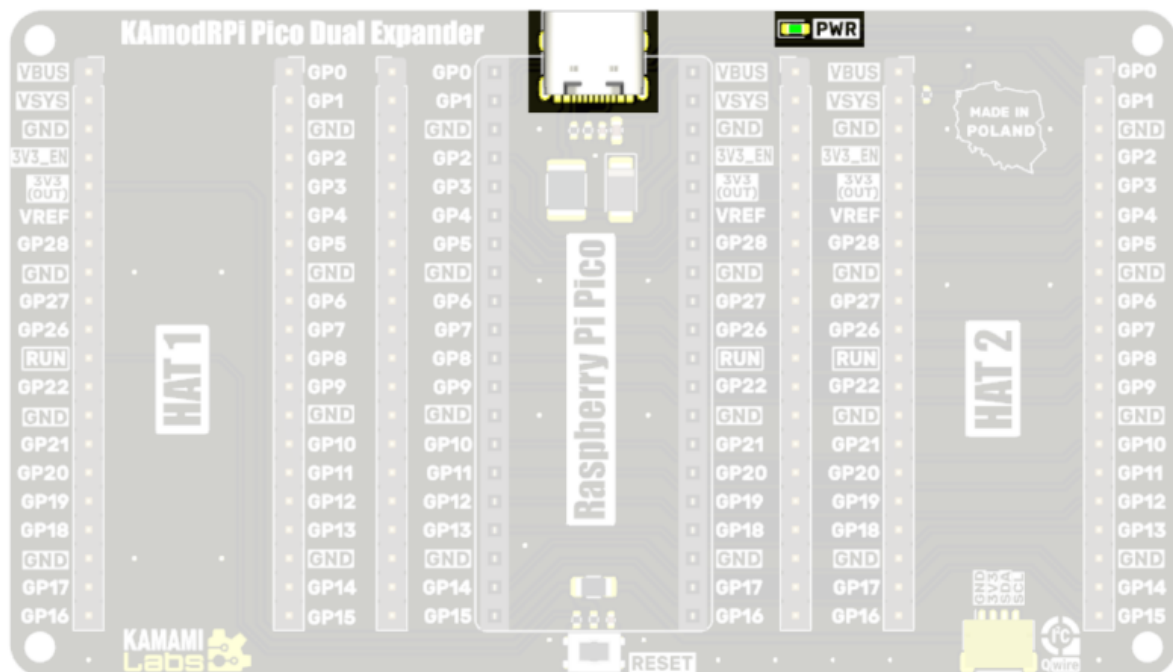
Code	Description
KAmoDRPi Pico Dual Expander	• Assembled and powered-up module • 4 x rubber feet

Electrical schematic

The Electrical schematic for the KAmoRPi Pico Dual Expander module can be downloaded [here](#).

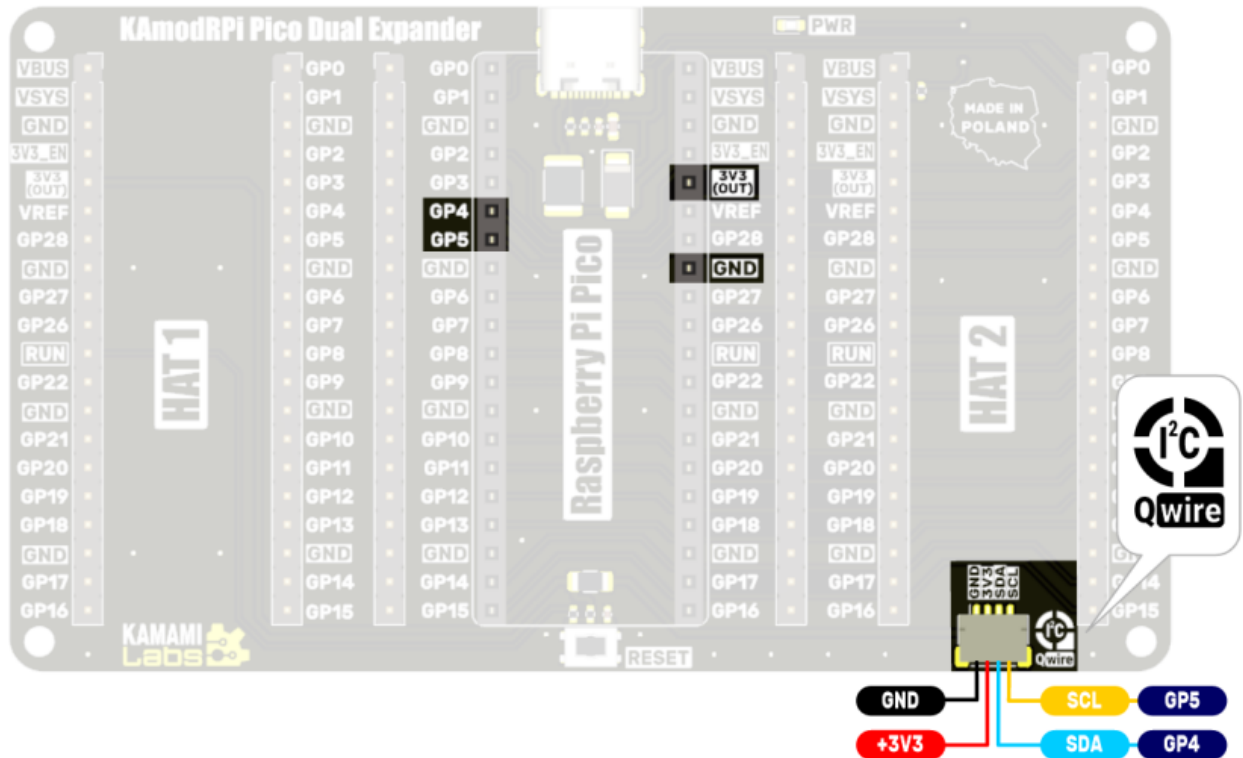
Power

A standard USB power source should be connected to the USB-C connector. The USB-C power supply is protected by a 3.5A polymer fuse and connected directly to the VBUS line and via a Schottky diode to the VSYS line. The PWR LED indicates the presence of VSYS voltage.



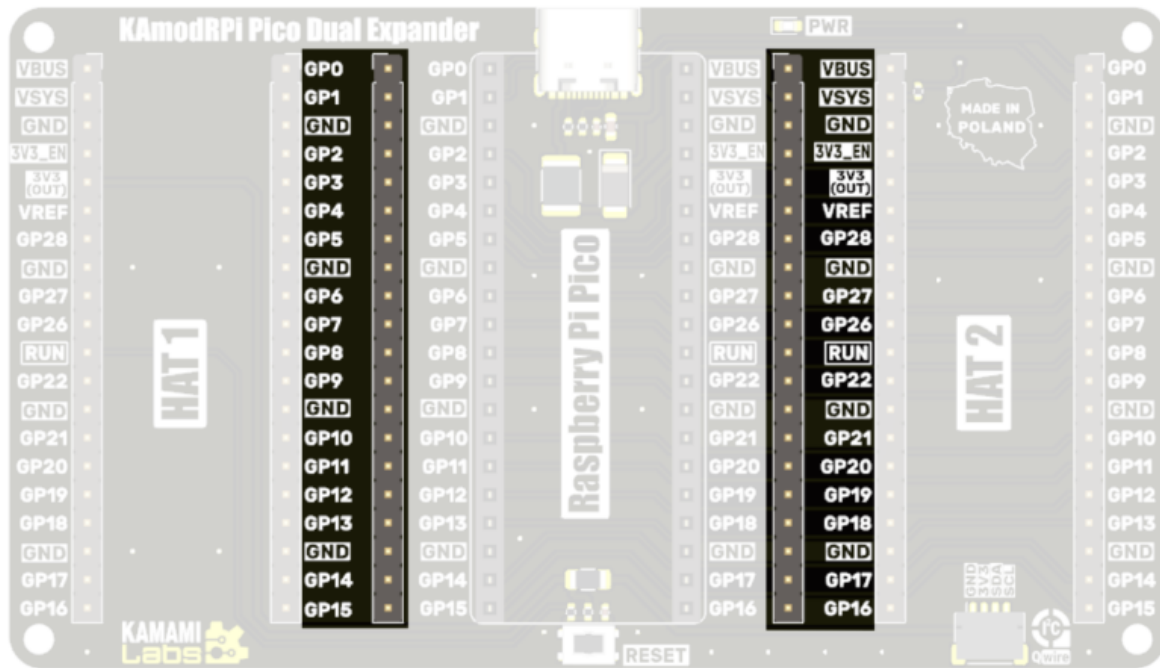
I2C Qwire Connector

The KAmoRPI Pico Dual Expander board features a 4-pin "I2C Qwire" connector (JST SH 1 mm) compliant with the "Qwiic" / "STEMMA QT" standard. This connection standard for I2C modules allows for quick connection and expansion of module functions without the need for soldering. The Qwire connector pins are controlled by the "I2C0" interface on pins "GP4 (SDA)" and "GP5 (SCL)".



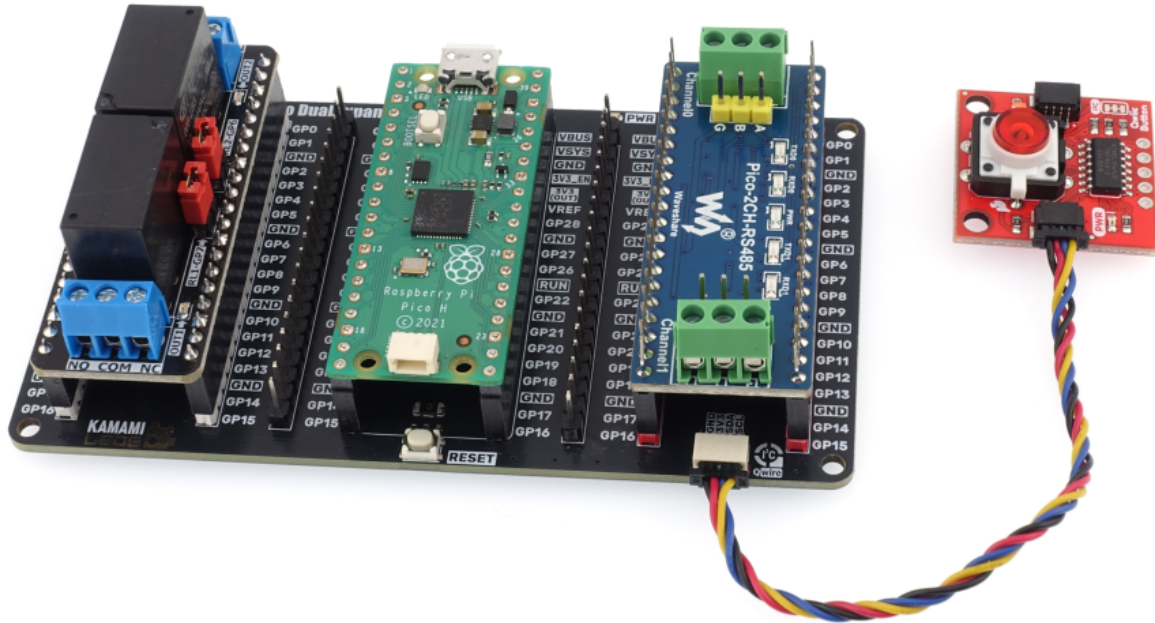
Additional Pins

The **KAmoRPi Pico Dual Expander** board is equipped with two additional 20-pin male connectors, which provide access to all signals of the Raspberry Pi Pico module.



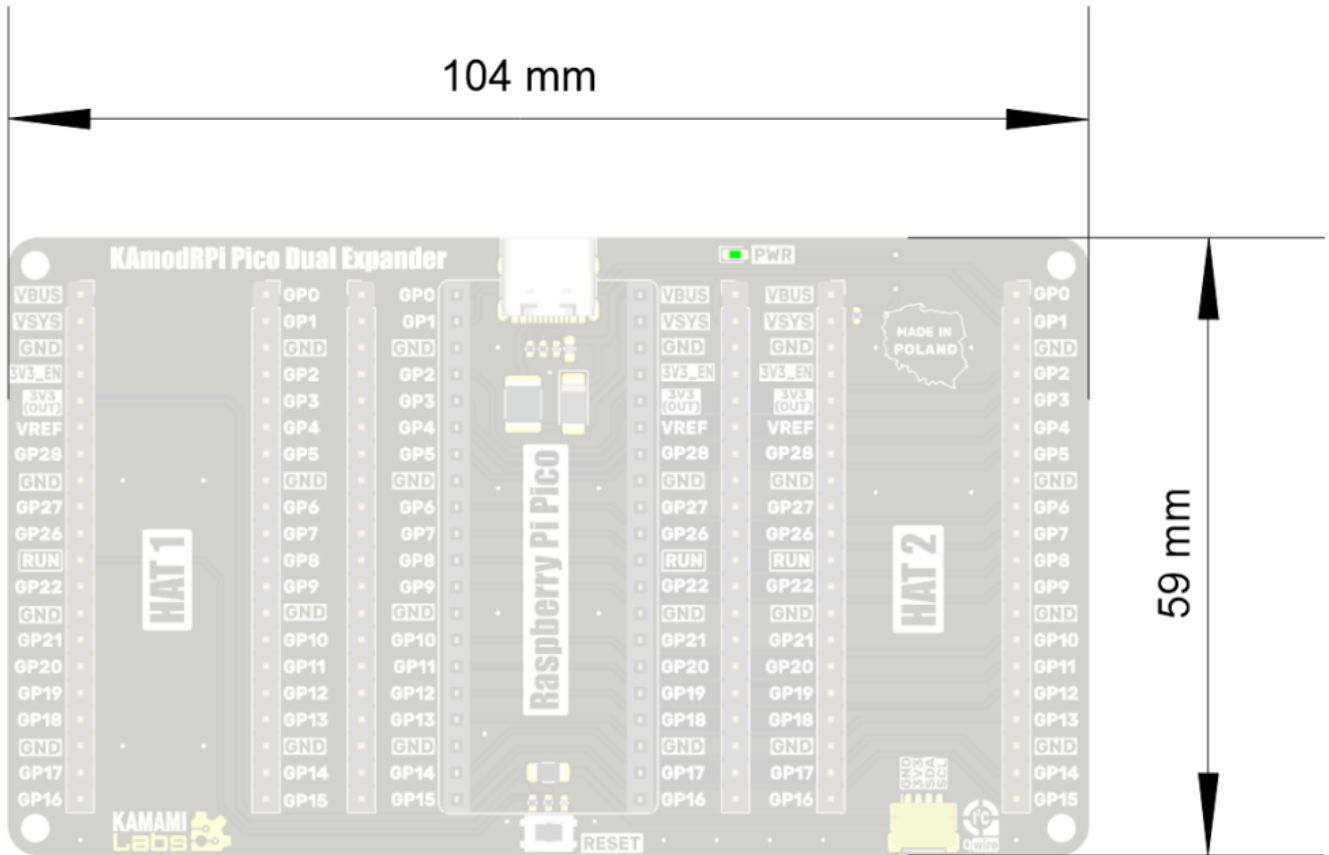
Usage Example

Before connecting the modules, make sure there are no signal conflicts (e.g., two modules using the same signal line) between the connected expansion modules.



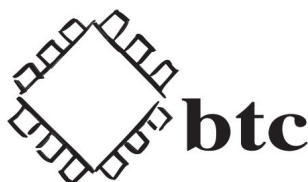
Dimensions

The dimensions of the KAmoDRPi Pico Dual Expander board are 59 x 104 mm.



Links

- [CAD Model \(STEP\)](#)



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