

KAMAMI

KAmoD I2C Hub Qwire



Rev. 20260404123414

Źródło: https://wiki.kamamilabs.com/index.php?title=KAmoD_I2C_Hub_Qwire

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Description

KAmoD I2C Hub Qwire - I2C Bus Splitter

The KAmoD I2C Hub Qwire allows you to connect multiple modules and peripheral devices to a single I2C port. The board is equipped with 4 I2C Qwire connectors (compatible with Qwiic/STEMMA QT), an I2C connector compatible with the Kamami standard, and a 2.54 mm pitch goldpin header containing 8 groups of I2C signals. The board features an LED indicating the presence of power supply and 4.7 k Ω pull-up resistors for the I2C interface lines, which can be easily disconnected if necessary.

The module does not have a built-in controller, so it does not allow connecting several devices with the same I2C address.



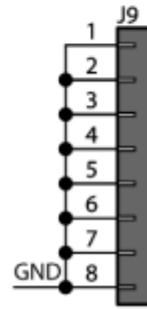
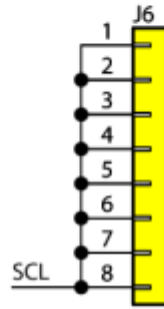
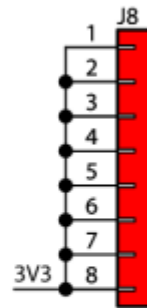
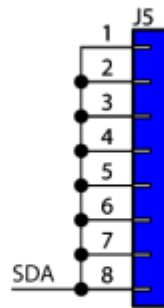
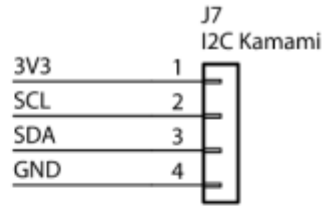
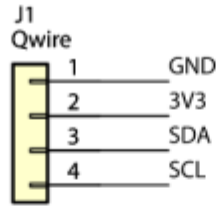
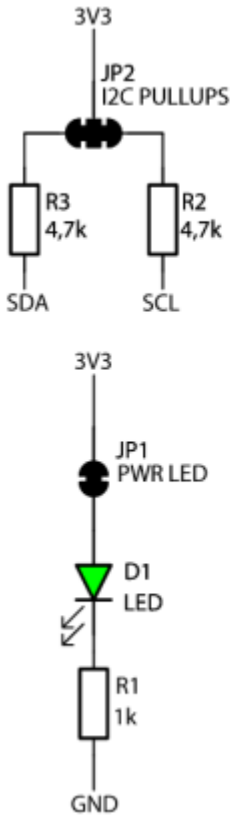
Basic Parameters

- 4 I2C Qwire connectors, JST SH 4-pin 1 mm type (compatible with Qwiic / STEMMA QT)
- I2C connector compatible with the Kamami standard for connecting KAmoD series expansion modules
- Goldpin header containing 8 groups of signals:
 - SCL - I2C bus clock line
 - SDA - I2C bus data line
 - 3V3 - power supply
 - GND - system ground
- Power supply status LED (can be disconnected to reduce power consumption)
- Jumper to disable the LED operation
- Jumpers for independent disconnection of the pull-up resistors (to the positive power supply rail) from the I2C bus lines
- Dimensions: 24 x 37 mm

Standard Equipment

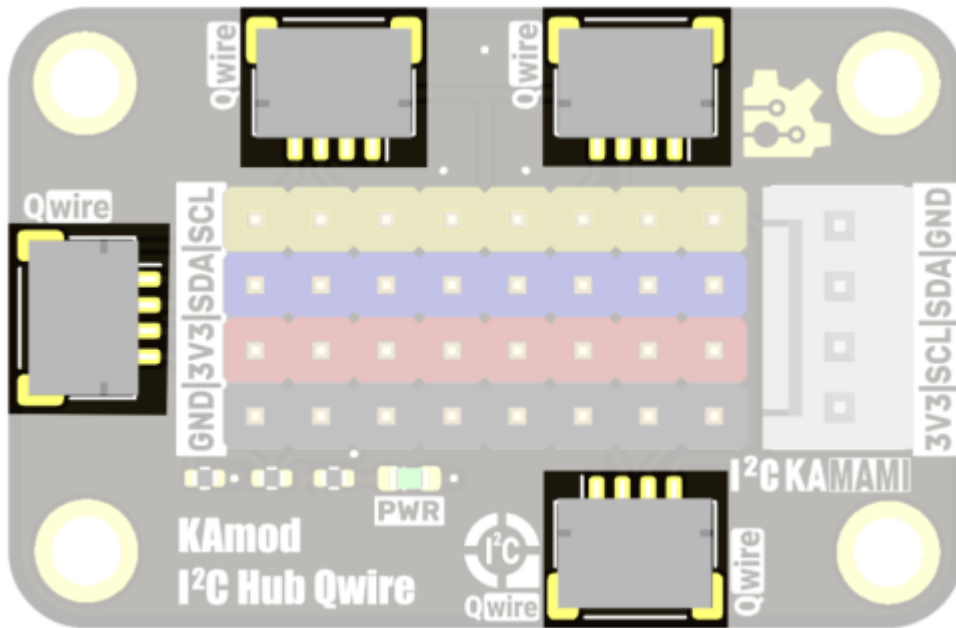
Code	Description
KAmoD I2C Hub Qwire	• Assembled and tested module

Schematic



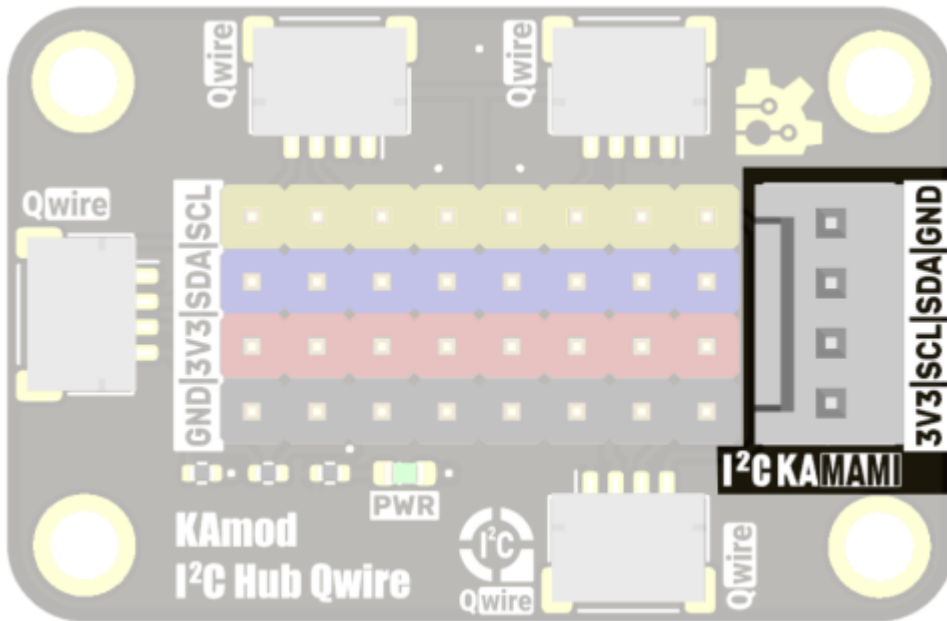
I2C Qwire Connectors

The KAmo I2C Hub Qwire board contains four I2C Qwire (JST SH 1 mm) connectors compatible with Qwiic / STEMMA QT. This is a connection standard for modules equipped with an I2C interface, enabling quick module connection without the need for soldering.



Kamami I2C Connector

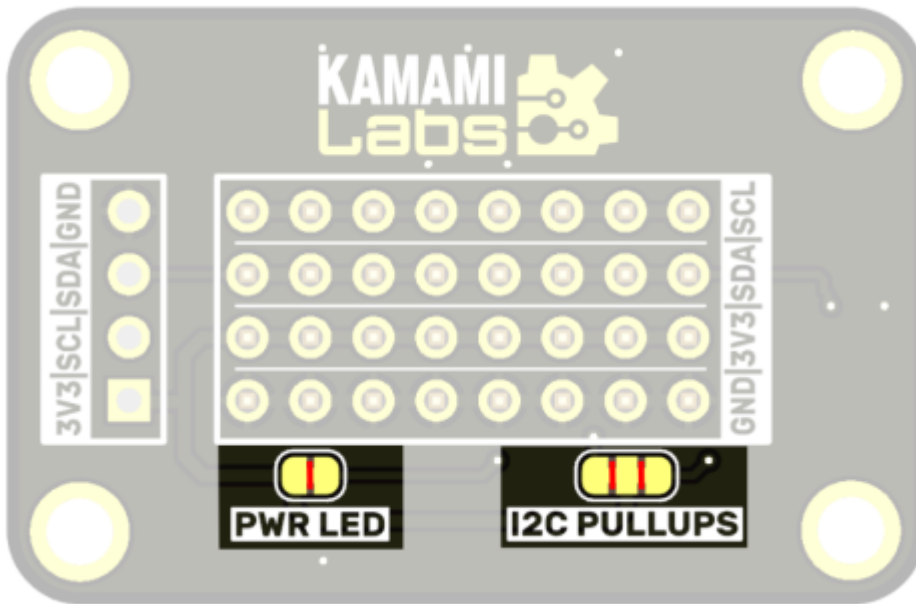
The KAmo I2C Hub Qwire module features the I2C connector used in many KAMAMI kits with an I2C interface. Connections can be made using a compatible cable labeled [CAB_HU04-30](#) from the KAMAMI.pl offer.



Configuration Jumpers

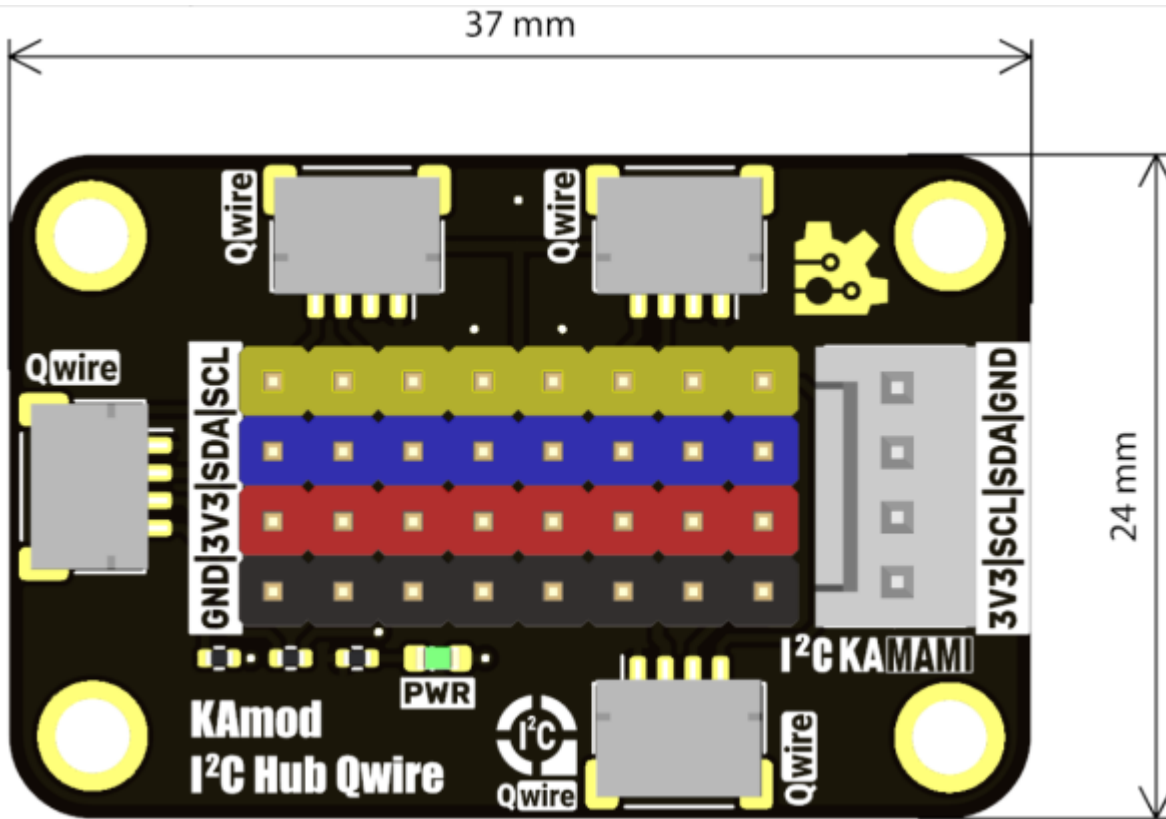
The KAmoD I2C Hub Qwire module is equipped with an SMD jumper to disconnect the "PWR LED" (JP1) and a double jumper "I2C PULLUPS" (JP2), which allows for independent disconnection of the pull-up resistors from the I2C bus lines.

The jumpers are located on the bottom side of the board and are closed by default (copper trace between pads). To open the jumpers, cut the surface of the board with a sharp tool as indicated by the red lines in the figure below. Reconnecting the jumpers is possible by applying a small drop of solder to bridge the cut pads.



Dimensions

The module dimensions are 24x37 mm. There are 4 mounting holes with a diameter of 2.7 mm on the board.



Links

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



Zastrzegamy prawo do wprowadzania zmian bez uprzedzenia.

Oferowane przez nas płytki drukowane mogą się różnić od prezentowanej w dokumentacji, przy czym zmianom nie ulegają jej właściwości użytkowe.

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