

KAMAMI

KAmoD TOUCH



Rev. 20241102091145

Źródło: <https://wiki.kamamilabs.com/index.php?title=KAmoD TOUCH>

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Description

[KamodTOUCH](#) is a module based on AT42QT1060 controller from ATMEL with a 6-button contactless keyboard. It allows you to work in both stand-alone mode and using the I2C interface.



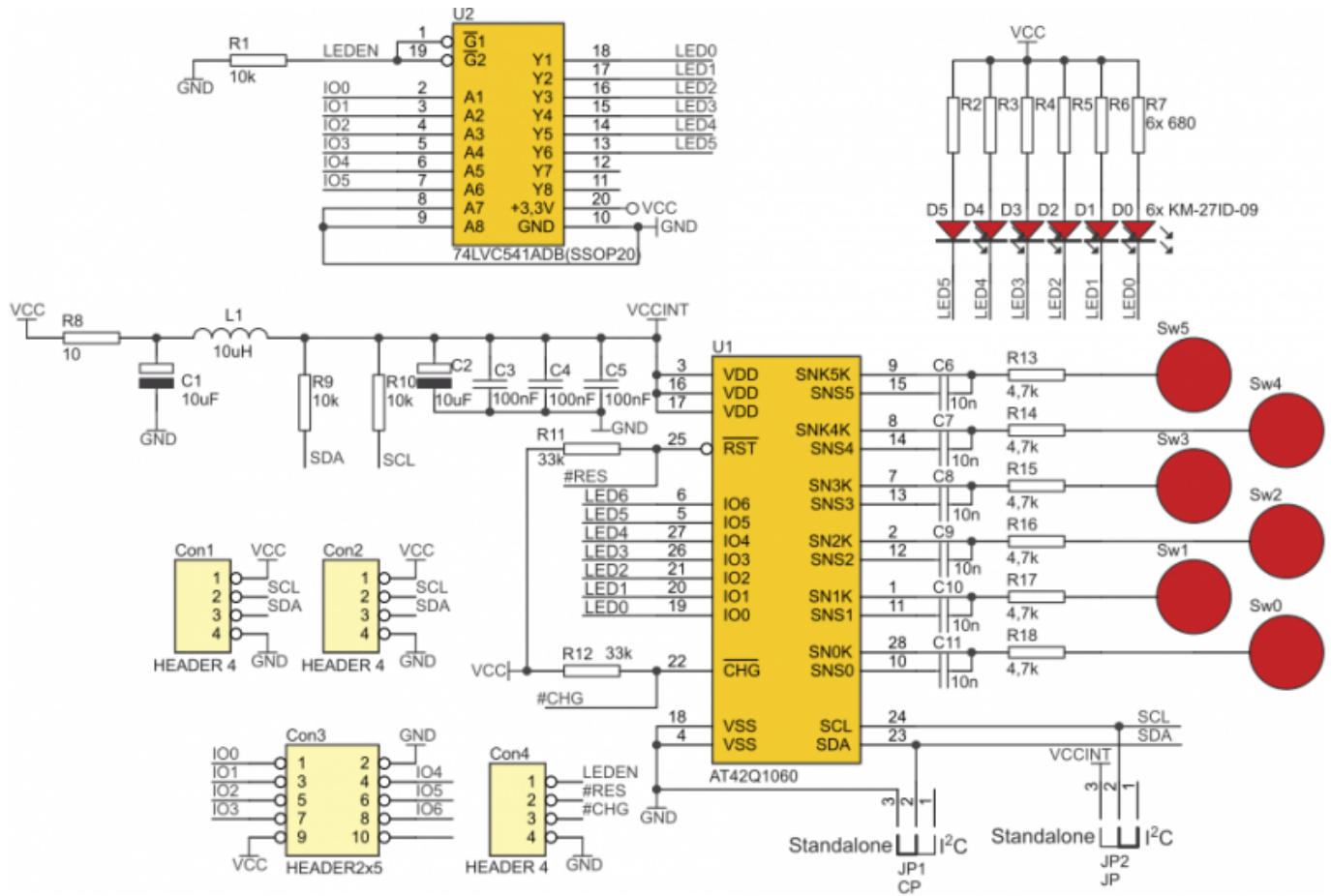
Basic parameters

- Contactless keyboard controller AT42QT1060 from ATMEL
- 6 buttons
- 6 LEDs
- Possibility to change device mode (stand-alone mode and using I2C).
- 7 independent GPIO lines
- Programmable change of button sensitivity
- Power supply: 3.3 V
- Low power mode
- All 7 GPIO lines are available on Goldpin connector
- The whole is located on an esthetic board with printed buttons

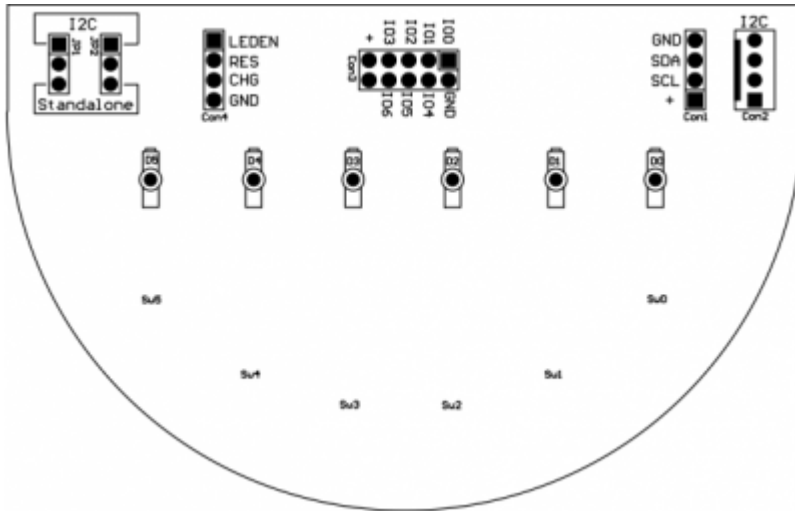
Standard equipment

Code	Description
KAmo d TOUCH	• Assembled module board

Schematic

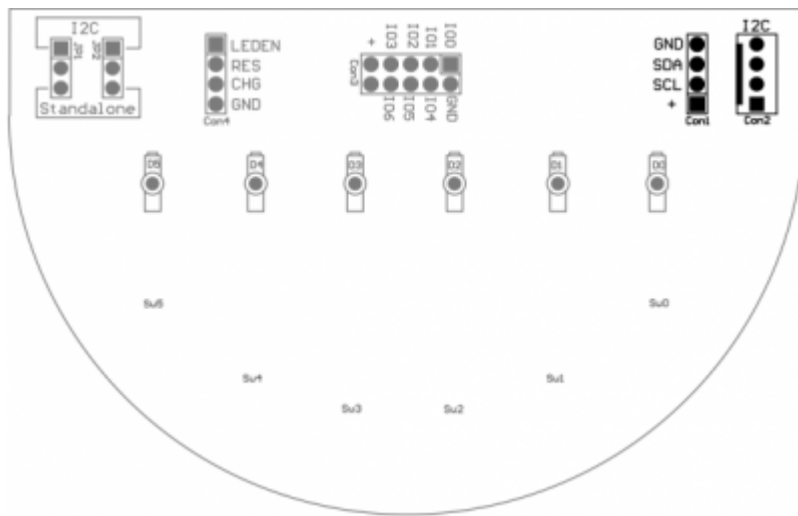
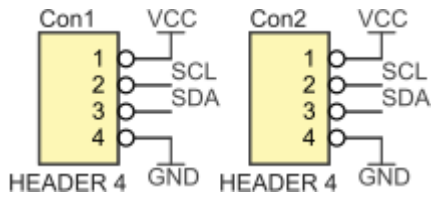


View of board



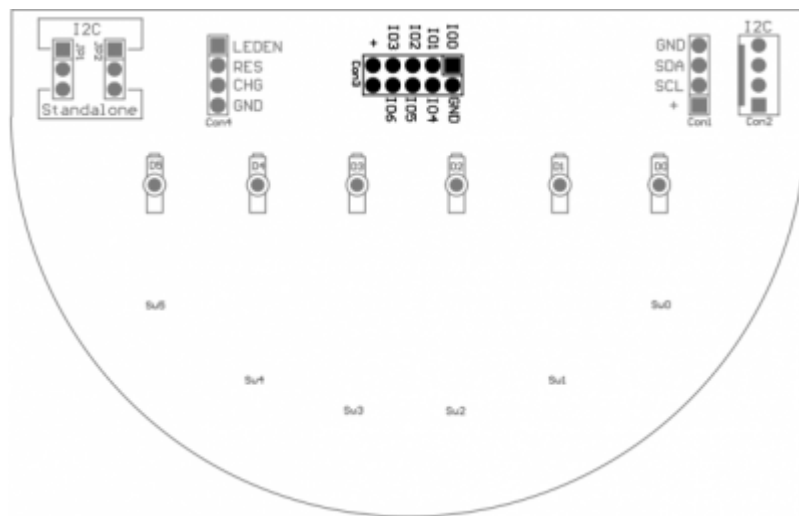
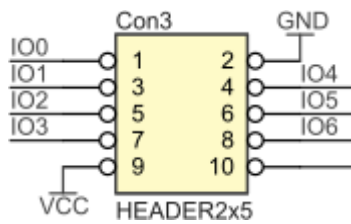
I2C connector

The KAmoDTouch module is equipped with an I2C interface available on Con1 and Con2 connectors. The layout of the line on the Con2 connector is compatible with the Kamami standard (with, e.g. ZL15AVR, ZL30ARM, CAB_HU04 cable). Using the I2C interface, you can use the Con1 connector, which appears on the board as goldpin connector.



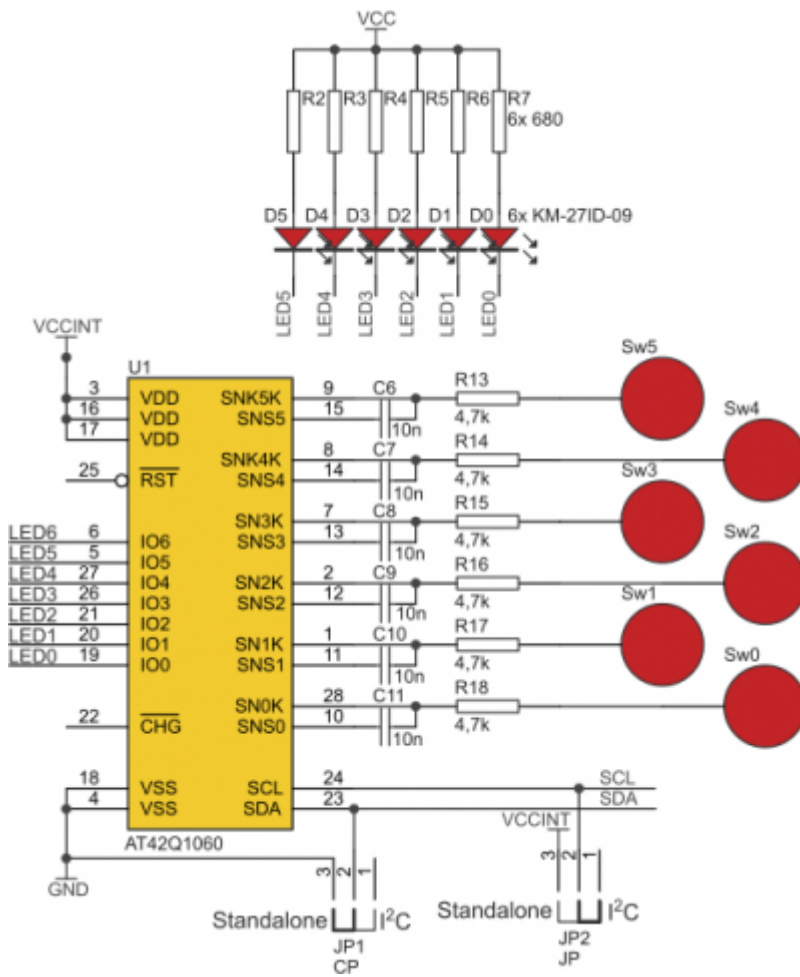
GPIO lines

All GPIO (IO0-IO6) lines of AT42QT1060 are available on the Con3 connector. When working with the use of I2C, their purpose depends on the programmer, while when working in standalone mode they depend on the state of touch sensors.



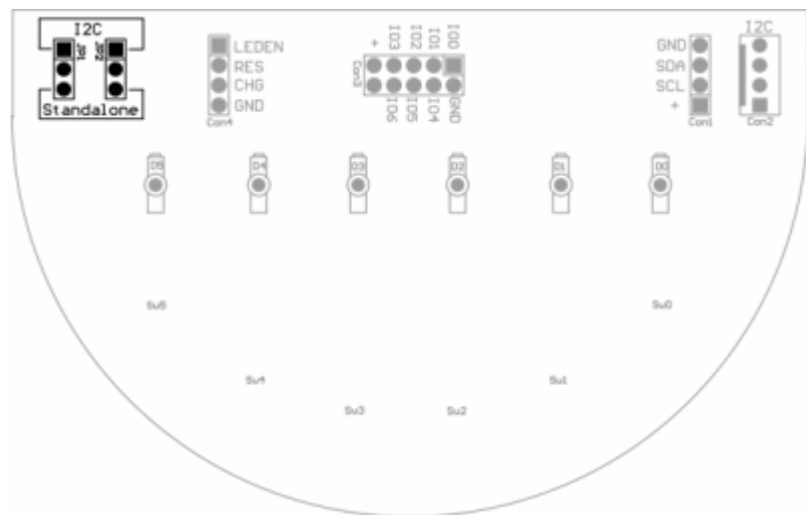
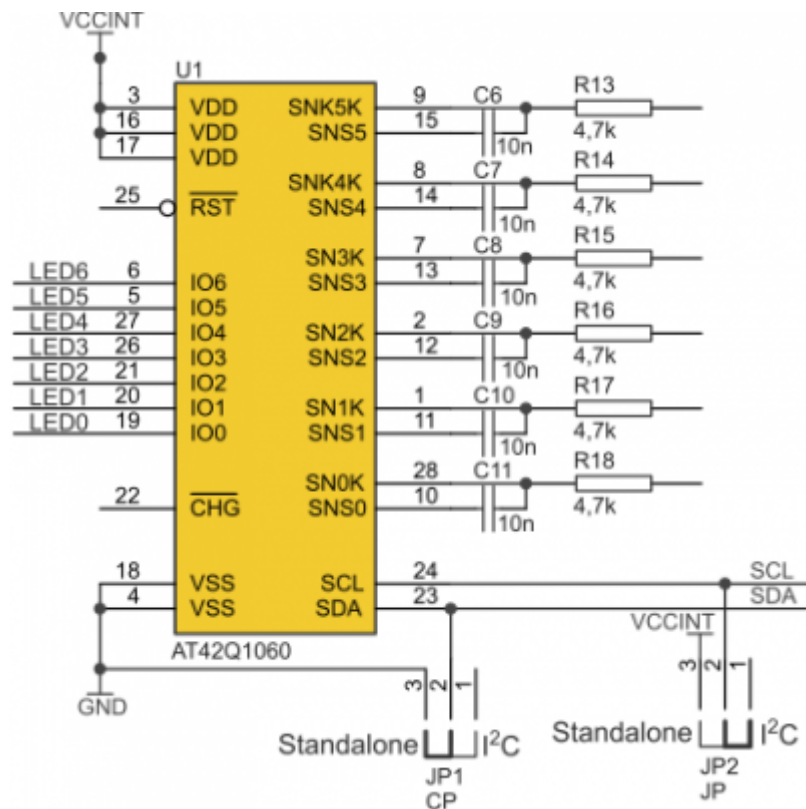
LEDs and buttons

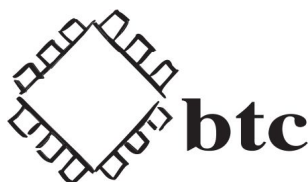
KamodTOUCH module has 6 contactless sensors (Sw0-Sw5 buttons) and 6 LEDs (D0-D5) to indicate which button is currently pressed. It is also possible to control these diodes in the I2C operating mode independent of the state of the keyboard.



Device mode

The device is equipped with the possibility of independent work, i.e. without the use of a processor, in which the state of the buttons is on the Con3 connector of the PCB and on the corresponding LED diodes. When working with the use of I2C we have the possibility of more advanced use of the module's functions thanks to the corresponding software of the controller cooperating with KAmoTOUCH. Change of the operating mode are possible by setting jumpers JP1 and JP2 in one of two positions marked as "Standalone" or "I2C".





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