



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

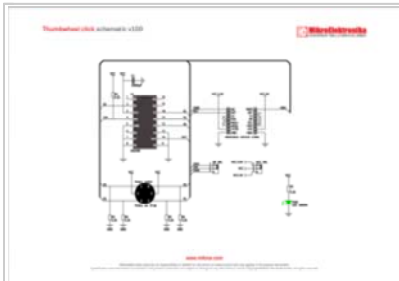


Thumbwheel click

From MikroElektronika Documentation

Thumbwheel click is a mikroBUSTM add-on board with a 10-position rotary sprocket connected to a 1-Wire 8-Channel Addressable Switch.

Features and usage notes



Schematic also available in PDF (http://cdn-docs.mikroe.com/images/1/1c/Thumbwheel_click_sc)

The starting position of the switch is marked with a small notch on the PCB above the wheel. Printed numerals from 1 to 10 clearly mark each position. The thumbwheel has a crown with small incisions for better finger traction. The board can use both a 3.3V or a 5V power supply. The One-Wire signal can be sent either through the mikroBUS AN or PWM pins. You choose which one by soldering the GP SEL jumper into the right position.

Thumbwheel click is controlled through a simple Dallas One-Wire protocol with only three functions. There is a function

for configuring the registers, a function for reading the current position of the thumbwheel, and a function for software reset. Hardware reset can be executed using the RST pin.

MikroElektronika compilers contain a One-Wire library that works with this click.

Programming

The following code snippet reads the current position of the thumbwheel

```
1 char DS2408_ChannelRead()
2 {
3     int state;
4
5     while( Ow_Reset( &GPIOA_BASE, 0 ) );
6
7     Ow_Write( &GPIOA_BASE, 0, DS2408_SKIP_ROM_CMD );
8     Ow_Write( &GPIOA_BASE, 0, DS2408_CHANNEL_READ_CMD );
9     state = Ow_Read( &GPIOA_BASE, 0 );
10    return state;
11 }
```

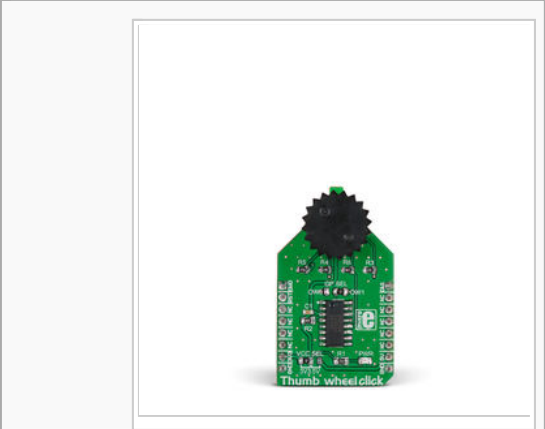
Code examples that demonstrate the usage of Thumbwheel click with MikroElektronika hardware, written for mikroC, mikroBasic and mikroPascal for ARM, AVR, dsPIC, and PIC are available on [Libstock].

Resources

- DS2408 8-channel addressable switch (<http://datasheets.maximintegrated.com/en/ds/DS2408.pdf>)
- Code example on Libstock (<http://libstock.mikroe.com/projects/view/1869/thumbwheel-click>)
- MikroBUSTM standard specifications (<http://download.mikroe.com/documents/standards/mikrobus/mikrobus-standard-specification-v200.pdf>)

Retrieved from "http://docs.mikroe.com/index.php?title=Thumbwheel_click&oldid=533"

Thumbwheel click



Thumbwheel click

IC/Module	Thumbwheel, DS2408 8-channel addressable switch (http://datasheets.maximintegrated.com/en/ds/DS2408.pdf)
Interface	1-Wire (OW1 or OW2)
Power supply	3.3V, 5V
Website	www.mikroe.com/click/thumbwheel (http://www.mikroe.com/click/thumbwheel)

- This page was last modified on 22 July 2016, at 15:12.
- Content is available under Creative Commons Attribution unless otherwise noted.