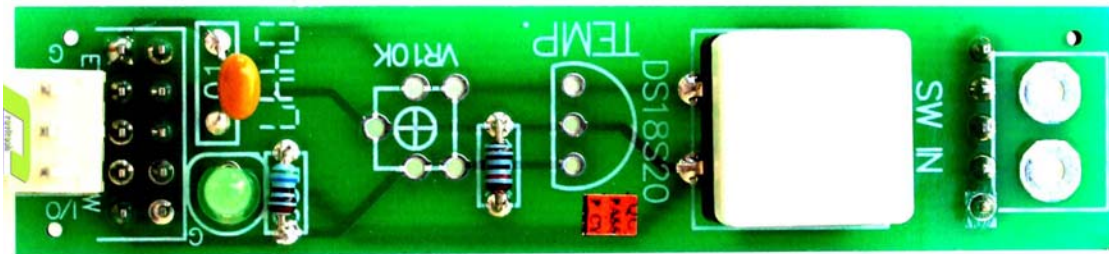


**MR-BusIO-SW™ BusIO Push Button Switch Input BOARD
User Manual**

GRAVITECH.US



uResearch

GRAVITECH GROUP

Copyright © 2007 MicroResearch
GRAVITECH GROUP WWW.GRAVITECH.US

MR-BusIO-SW™ BusIO Push Button Switch Input BOARD User Manual

Description

The MR-BusIO-SW is an experiment board for receiving input from push button switch. When the switch has been pressed, the indicator LED is illuminated and status on I/O pin is LOW. Moreover, user can add DS18S20 IC, 1-Wire Digital Thermometer onto the board. It can send the temperature value via 1-Wire bus system to microcontroller (optional). It is best for sensing switch input and temperature reading.

The board can be use with MR-BusIO-MAIN board or stand-alone. PCB size is 0.63" x 2.80"

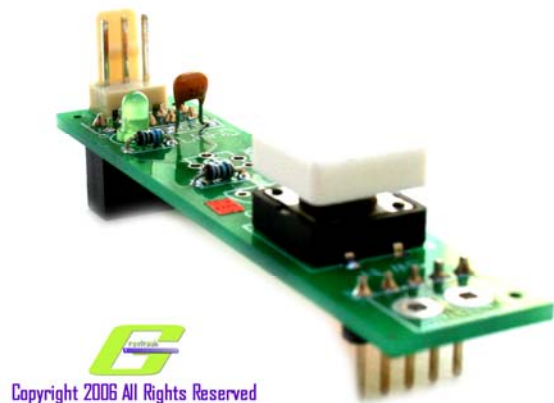
Operation:

There are three ways to use this board:

As a switch input: When user press the switch, logic LOW is apply at the I/O pin. The indicator LED is also illuminated. I/O pin read logic HIGH when the switch is de-press.

As a VR (Variable Resistor): This is optional. User has to solder 10 POT on to the board. It's operating as a voltage divider of VCC.

As an 1-Wire Thermometer (DS18S20): This is optional. User has to solder 3-PIN DS18S20 on to the board, pin1 GND, pin2 DQ, and pin3 VCC. The 1-Wire data can be read from an I/O pin. **Do not connect VR when using this option.**



MR-BusIO-SW™ BusIO Push Button Switch Input BOARD User Manual

Accessories

All of the accessories are available for purchase via our website. If you don't see the item you need, please contract our sales department at sales@gravitech.us

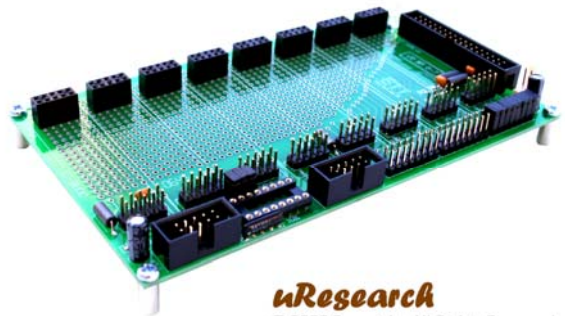
- **DS18S20 IC**

The DS18S20 Digital Thermometer provides 9-bit centigrade temperature measurements and has an alarm function with nonvolatile user-programmable upper and lower trigger points. The DS18S20 communicates over a 1-Wire bus that by definition requires only one data line (and ground) for communication with a central microprocessor.



- **MR-BusIO-MAIN**

Experiment board which receives output signals from any microcontrollers. The signals then distribute to daughter boards for each experiment. It designed to connect directly with 10PIN MRconnect®. It is a quick and easy way to control up to 8 daughter boards.



uResearch
© 2007 Copyright. All Rights Reserved

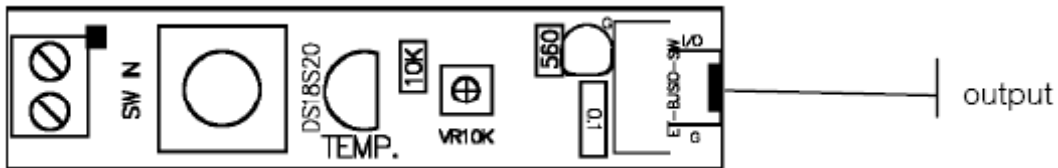


FIG 1: MR-BusIO-SW Board Layout

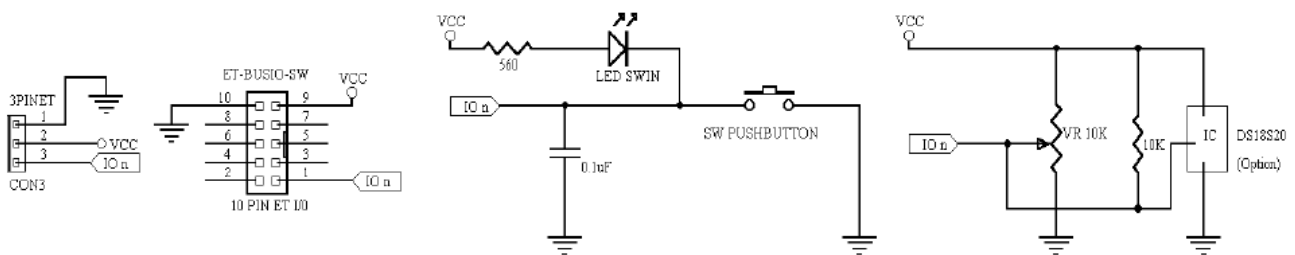


FIG 2: MR-BusIO-SW Schematic

MR-BusIO-SW™ BusIO Push Button Switch Input BOARD User Manual

Notes

Contact Us

We maintain a website where you can get information on our products, obtain literature and download support files. Visit us online at:

WWW.GRAVITECH.US

Use our online Forum or e-mail your technical support questions to support@gravitech.us. We try to respond to your questions the same day.

For sales questions or to place and order, direct your e-mails to sales@gravitech.us. Refer to our website for product pricing, shipping rates, payment instructions, and for other info we need to complete your order.

Disclaimer: MicroResearch reserves the right to modify its products or literature, or to discontinue any product at any time without prior notice. The customer is responsible for determining the suitability of any device for any application developed using MicroResearch components.

Copyright © 2007 MicroResearch
GRAVITECH GROUP WWW.GRAVITECH.US

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Daughter Cards & OEM Boards](#) category:

Click to view products by [Gravitech](#) manufacturer:

Other Similar products are found below :

[ADZS-21262-1-EZEXT](#) [27911](#) [MPC5777C-416DS](#) [KITMPC5744DBEVM](#) [SPC56ELADPT144S](#) [TMDXRM46CNCD](#) [DM160216](#) [EV-ADUCM350GPIOTHZ](#) [EV-ADUCM350-BIO3Z](#) [ATSTK521](#) [1130](#) [MA160015](#) [MA240013](#) [MA240026](#) [MA320014](#) [MA330014](#) [MA330017](#) [TMDSCNCD28054MISO](#) [MIKROE-2152](#) [MIKROE-2154](#) [MIKROE-2381](#) [TSSOP20EV](#) [MIKROE-1108](#) [MIKROE-1516](#) [SPS-READER-GEVK](#) [AC244049](#) [AC244050](#) [AC320004-3](#) [2077](#) [ATSMARTCARD-XPRO](#) [EIC - Q600 -230](#) [ATZB-212B-XPRO](#) [SPC560PADPT100S](#) [SPC560BADPT64S](#) [MA180018](#) [EIC - Q600 -220](#) [AC164134-1](#) [BOB-12035](#) [BB-BONE-BATT-01](#) [STM8/128-D/RAIS](#) [AC164127-6](#) [AC164127-4](#) [AC164134-3](#) [AC164156](#) [MA320021](#) [MA320024](#) [DFR0285](#) [DFR0312](#) [DFR0356](#) [MA320023](#)