JOYSTICK TINYSHIELD

ASD2020

DESCRIPTION

This TinyShield lets you add some control to your TinyDuino projects! Control your very own robot or play a video game with your TinyScreen. This TinyShield has two analog joysticks on both sides as well as two push buttons along the top to create a tiny controller for your TinyDuino. This TinyShield uses the I2C bus for communication and can safely run over the full TinyDuino voltage range.

Note: This joystick works with the standard TinyScreen but not with the TinyScreen+.

*To learn more about the **TinyDuino Platform,** click **here***

https://tinycircuits.com/pages/tinyduino-overview

TECHNICAL DETAILS

*To see what other TinyShields this will work with or conflict with, check out the **TinyShield Compatibility Matrix***

Built in ATTiny88 microcontroller, preprogrammed

- o Two Analog Joysticks, 10-bit ADC reading for each axis of each joystick returned
- o Two discrete pushbuttons

TinyDuino Power Requirements

- o Voltage: 3.0V - 5.5V
- o Current: 5mA. Due to the low current, this board can be run using the TinyDuino coin cell option

Pins Used

- o A5/SCL - I2C Serial Clock line
- o A4/SDA - I2C Serial Data line

Dimensions

- o 68mm x 25mm (2.68 inches x .984 inches)
- o Max Height (from lower bottom TinyShield Connector to upper top of joysticks): 12.0 mm (0.472 inches)
- o Weight: 5.95 grams (.21 ounces)

NOTES

- o This joystick does not work TinyScreen+. Because the TinyScreen+ is a processor board, the connectors for the two board will not line up.