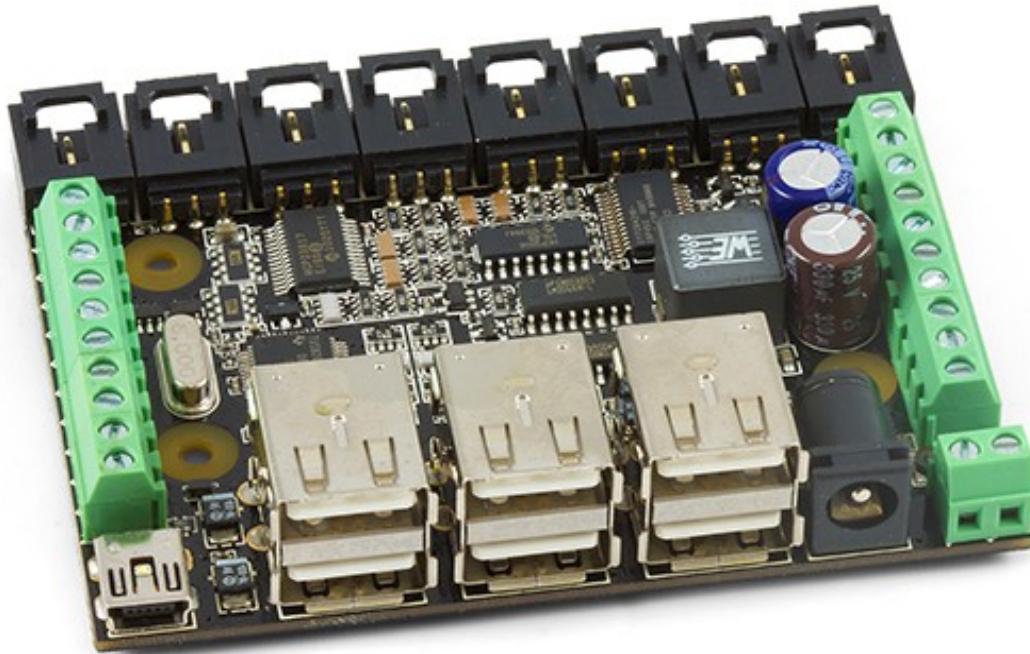


RB-Phi-75

Phidgets Interface Kit 8/8/8 w 6 Port USB Hub



Analog Inputs

The Analog Inputs are used to measure continuous quantities, such as temperature, humidity, position, pressure, etc. A wide variety of sensors have been offered that can be plugged directly into the board using the cable included with the sensor. Sampling rates can be set at 1ms, 2ms, 4ms, 8ms and multiple of 8ms up to 1000ms.

Digital Inputs

The Digital Inputs have a Digital Input Hardware Filter to eliminate false triggering from electrical noise. They can be used to convey the state of devices such as push buttons, limit switches, relays, and logic levels.

Digital Outputs

The Digital Outputs can be used to drive LEDs, solid state relays (such as the SSR Relay Board), transistors; in fact, anything that will accept a CMOS signal.

USB Hub

Connecting additional USB devices to the this kit is as easy as plugging them into the on-board 6-port hub. Each USB port on the hub has a maximum current supply of 500mA.

Includes

- Power Supply 12VDC 2.0A (Choose Plug Type)
- 180cm USB Cable
- Hardware mounting kit (4 nuts and bolts (M3), 4 plastic spacers)

Specifications

Board

- API Object Name: InterfaceKit
- USB Voltage: 4.6 - 5.5VDC
- Supply Voltage: 6 - 15VDC
- Current Consumption: 10- 500mA
- Available External Current: 500mA
- Power Jack Hole Diameter: 5.5mm
- Power Jack Pin Diameter: 2.1mm
- Power Jack Polarity: Center Positive
- Recommended Wire Size: 16 - 26 AWG
- USB Speed: Full Speed
- Operating Temperature: 0°C - 70°C

Analog Inputs

- Number of Analog Inputs: 8
- Analog Input Resolution: 10 bit
- Input Impedance: 900 k Ω
- Analog Input Voltage: 0 - 5V DC
- 5V Reference Error (maximum): 0.5 %

Digital Inputs

- Number of Digital Inputs: 8
- Pull-up Resistance: 15k Ω
- Low Voltage Max (True): 900 mVDC
- High Voltage Min (False): 4.2V DC
- Low Voltage Trigger Length (minumum): 4ms
- High Voltage Trigger Length (minumum): 15ms
- Digital Input Voltage Max: \pm 15VDC
- Digital Input Update Rate: 125 samples/s

Digital Outputs

- Number of Digital Outputs: 8
- Series Resistance: 300 Ω
- Digital Output Current (maximum): 16mA
- Digital Output Voltage: 0 - 5VDC

Analog Input Update Rate

- Minumum: 1samples/s
- 4 Channels: 1000 samples/s
- 8 Channels: 500 samples/s
- WebService: 62.5 samples/s

USB Hub

- Number of USB Ports: 6
- Available Current per USB Port: 500 mA