Bare Conductive Touch Board
SKU: 109990039

Description

Introduction:

The touch board is a tool to make your projects interactive, responsive, smart or just fun. Use the Touch Board to change the world around you by turning almost any material or surface into a sensor. Paint a lightswitch on you wall, make a paper piano or create something nobody's thought of yet.

Connect anything conductive to one of its 12 electrodes and trigger a sound via its onboard MP3 player, play a MIDI note or do anything else that you might do with an Arduino or Arduino-compatible device.

The Touch Board uses Atmel's ATMega32U4 Microprocessor to make the board easy to use, flexible and widely accessible. Built in USB hardware lets the Touch Board perform a variety of functions.

Features:

- Touch and Distance sensing
- No programming required
- Arduino-compatible
- Works great with Electric Paint
- MP3 Player / MIDI device
- Micro SD card socket
- Standard 3.5mm audio jack
- LiPo battery charger
- HID capable

Specification:

- Atmel ATMega32U4 Microprocessor
- Freescale MPR121 dedicated touch interface
- VLSI VS 1053B audio processor
- Arduino compatible
- 5V operating voltage (automatic voltage selector for USB or battery operation)
- LiPo battery charging with boost circuit for 5V operation
- 16 MHz clock speed
- Can be powered and programmed over USB

- 20 digital I/O pins
- 7 PWM channels
- 12 analog input channels
- 12 Touch electrodes (8 can be configured as digital inputs or outputs with PW/M capability)
- 84mm x 62mm foot print with maximum height of 10mm
- On/Off switch when powered from battery