

Esplora Game Programming Module Board Geekreit for Arduino

Module: MB0074

Introduction

The Arduino Esplora is equipped with a Arduino-compatible processor with a light sensor, a temperature sensor, a 3-axis accelerometer, a joystick, a set of pushbuttons, a slider, an RGB LED, and a buzzer.

The new Arduino Esplora has been designed to emulate traditional input devices like a mouse or keyboard, and Arduino has developed to not only be a games controller. But also provide controls for applications such as musical software, or creating digital 3D models as examples,

"The Arduino Esplora is a ready-to-use, easy-to-hold controller that lets you explore the infinite possibilities you have in the world of Arduino, without having to deal with breadboards or soldering. Shaped like a game controller, it's designed to be used out of the box without extra parts since it comes with many sensors and actuators already on it."

Features:

- Joystick
- Slider
- Temperature sensor
- Accelerometer
- Microphone
- Light sensor
- RGB LED

Interface:

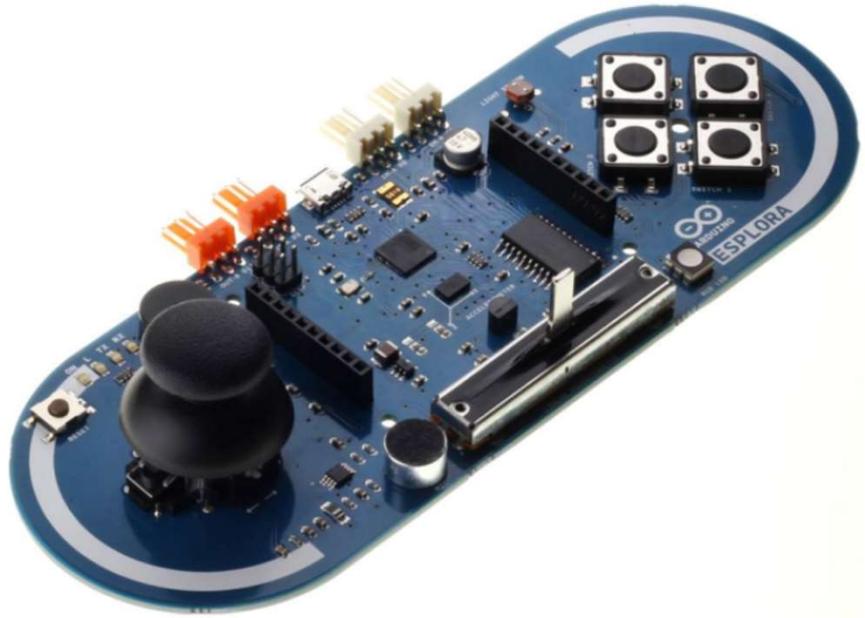
- Two Tinkerkit input and output connectors
- Socket for a color TFT LCD screen

Specification:

- Microcontroller: ATmega32u4
- Operating voltage: 5V
- Flash memory: 32KB(of which 4KB used by bootloader)
- SRAM: 2.5KB
- EEPROM: 1KB
- Clock speed: 16MHz

Note:

- Esplora need an external variable resistor
- Central of Esplora can extension 128 x 160 1.8 inch TFT LCD



Reference:

<https://store.arduino.cc/arduino-esplora>