Item no.: 384170
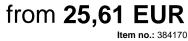# BPI-BIT - Banana Pi Bit

from **25,61 EUR**

Item no.: 384170
shipping weight: 0.10 kg
Manufacturer: BPI

📄 Product Description

IntroductionThe BPI-Bit (also known as BPI-Bit, stylised as bpi:bit) is an ESP32 embedded system based on a 32-bit Xtensa LX6 dual-core processor. It supports the programming environments Webduino, Arduino, MicroPython and Scratch X.BPI:bit hardware main function:bpi:bit board is 5 cm x 5 cm in size, weighs 10 ~ 12 grams, it houses a 20-pin edge connector, a built-in lighting matrix with 25 programmable full-colour LEDs, two light-sensitive light sensors, two programmable buttons, an NTC resistor, a buzzer and a sensor with nine axes (three-axis acceleration, three-axis gyroscope and three-axis magnetic compass),HardwareHardware descriptionWebduino Bit is the latest board from Webduino with many more sensors in addition to its basic functions (Wi-Fi connection, multi-connectivity, multi-board...). It uses the ESP32 module, one of the most efficient and stable chipsets on the market, which has integrated 2.4G Wi-Fi and Bluetooth, 448KB ROM, 520KB SRAM, a speed of up to 600 DMIPS and 40 nm technology.Webduion Bit board has a compact size of 50mm x 50mm, weighs 10-12 grams.It has 20 pins on the bottom, 25 full colour LEDs in the middle, two photocells, two buttons, a thermistor, a buzzer, a 9-axis sensor (3-axis accelerometer, 3-axis gyroscope and 3-axis magnetometer).MPU9250 9-axis sensorThe 9-axis sensor, MPU9250, is placed on the BPI:bit board. and MPU9250 uses the I2C 0x69 address. The 9-axis sensor is a combination of 3 separate triple-axis sensors. For more information about this chip, click here MPU 9250 datasheet to see the datasheet.\ BPI-BIT MPU9250 library and how to : https://github.com/BPI-STEAM/MPU9250 BPI:bit powerWhen using BPI:bit, you need to power the board first, and the bit supports three power supply modes 1. Micro USB port: power supply through USB cable, the design of BPI:bit board has a micro USB interface, which is widely used in daily life and very convenient to use.2.battery port:Through 2 pin battery power supply socket, can be powered by the lithium battery, battery pack to power supply board, interface foolproof design, do not worry about the power supply through the 2 pin battery power supply socket, can be powered by the lithium battery, battery pack to power supply board, interface foolproof design, do not need to worry about the power supply meet the problem.3.goldfinger ?Power is supplied through the gold finger, and the gold finger at the bottom of the board contains the power interface. Meanwhile, it has both input and output functions and has high compatibility.bpi:bit- Device bpi- CPU Dual-Core 32bit Xtensa LX6, up to 240MHz- RAM 520 KB - ROM 448 KB- Flash 4096 KB- Bluetooth BT4.2 BR/EDR and BLE- WIFI 802.11 b/g/n/e/i - Buzzer 1x buzzer- 5*5 LEDS 25 intelligently controlled full colour LEDs (16777216 color), cascading of all LEDs through a single line- Light sensitive sensor 2 light sensors- Temperature sensor Stand-alone temperature sensor- Motion sensor MPU-9250 9-axis motion tracking: 3-axis acceleration measurement- Button 2 programmable buttons- micro USB 1x micro USB(UART) - Software Webduino, Arduino, MicroPython, Scratch X - Size 5*5 cm

📄 Specifications