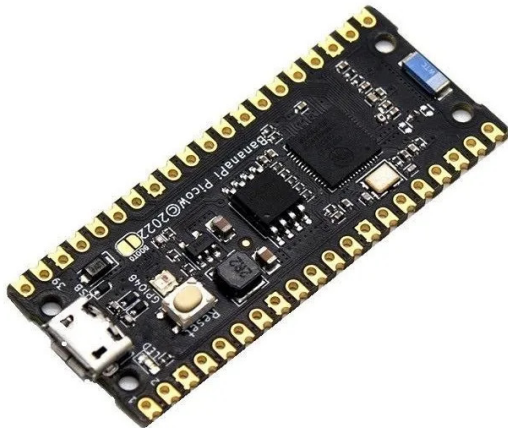


Item no.: 356557

Low-powered microcontroller with ESP32-S3 design

from **5,89 EUR**

Item no.: 356557
shipping weight: 0.10 kg
Manufacturer: BPI



Product Description

Banana Pi BPI-PicoW-S3 is a low-powered microcontroller designed for IoT development and Maker DIY boards. It is designed with an ESP32-S3 chip and supports 2.4 GHz Wi-Fi and Bluetooth® LE dual-mode wireless communication. The peripheral is compatible with low-power hardware design, and the power consumption is only 10 uA in deep sleep mode. In terms of programming, the BPI-PicoW-S3 supports ESP-IDF, Arduino, micropython and other methods.

It is the same size as the Raspberry Pi Pico, and most GPIO definitions are compatible with Raspberry Pi Pico.

SoC: ESP32-S3, Xtensa® 32-bit LX7 dual core
Basic frequency: 240 MHz max.
Operating temperature: -40°C ~+85°C
On-chip ROM: 384 KB
On-chip SRAM: 320 KB
Onboard Flash ROM: 2 MB
On-chip peripheral PSRAM: 8 MB
Wi-Fi: IEEE 802.11 b/g/n, 2.4 GHz band, 150 Mbps
Bluetooth: Bluetooth 5, Bluetooth mesh
GPIO: BPI-PicoW-S3 has led out 27 available GPIOs
ADC: 2x 12-bit SAR ADC supporting 18 analog channel inputs
TOUCH capacitive touch sensor: 14
SPI: 4I2C: 2, supports master or slave model
I2S: 2, input and output of serial stereo data
LCD: 1, supports 8-bit ~ 16-bit parallel RGB, I8080, MOTO6800 interface
Camera: 1, supports 8-bit ~ 16-bit DVP image sensor interface
UART: 3, supports asynchronous communication (RS232 and RS485) and IrDA
PWM: 8x independent channels, 14-bit precision
MCPWM: 2
USB: 1x Full Speed USB 2.0 OTG, MicroUSB female
USB Serial/JTAG Controller: 1, USB full speed standard, CDC-ACM, JTAG
Temperature sensor: 1, the measurement range is -20°C to 110°C, for monitoring the internal temperature of the chip
SD/MMC: 1x SDIO host interface, with 2 card slots, supports SD card 3.0 and 3.01, SDIO 3.0, CE-ATA 1.1, MMC 4.41, eMMC 4.5 and 4.51
TWAI® controller: 1, compatible with ISO11898-1 (CAN specification 2.0)
Generic DMA Controller: 5x receive channels and 5x transmit channels
RMT: 4-channel transmit, 4-channel receive, shared
384 x 32-bit RAMPulse counter: 4 pulse count controllers (units), each unit has 2 independent channels
Timer: 4x 54-bit general-purpose timers, 16-bit clock prescaler, 1x 52-bit system timer, 3x watchdog timers
External crystal: 40 MHz
RTC and low power management: Power Management Unit (PMU) + Ultra Low Power co-processor (ULP)
Low power consumption current: 10 uA
Working voltage: 3.3 V
Input voltage: 3.3 V ~ 5.5 V
Maximum discharge current: 2 A @ 3.3 V DC/DC
Controllable full color LED: 1

Specifications

Scan this QR code to
view the product
All details, up-to-date
prices and availability

