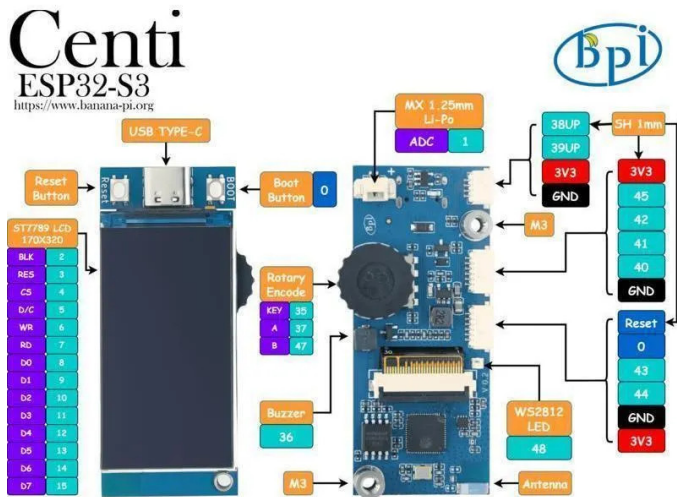


Item no.: 384128

BPI-CENTI-S3 - Banana-Pi-Centi-S3

from **14,88 EUR**

Item no.: 384128
shipping weight: 0.20 kg
Manufacturer: BPI



Product Description

IntroductionBPI-Centi-S3 is a small ESP32-S3 development board with a 1.9-inch LCD on board, suitable for the development of comprehensive Internet-of-Things application projects such as colour display, interactive control, wireless communication and sensor data acquisition. With the Espressif ESP32-S3 chip, it supports 2.4 GHz Wi-Fi and Bluetooth® Low Energy (Bluetooth® LE) dual-mode wireless communication. In a compact space, it still offers an incremental rotary encoder, a buzzer, a WS2812 colour LED and all other available pins to meet various requirements. Supports USB and external 3.7V lithium battery power supply, can realise automatic switching power supply function under dual power supply, and supports USB charging mode, equipped with battery voltage detection circuit, convenient for power management. **Key Features-** ESP32-S3, Xtensa® 32 bit LX7- 2M PSRAM, 8M FLASH- 2.4G WIFI, Bluetooth 5, Bluetooth mesh- GPIO, PWM, I2C, SPI, RMT, I2S, UART, USB, JTAG- 1 * ST7789 TFT LCD, 1.9-inch, 170*320 resolution, 8bit 8080 parallel port- 1 * Rotary Encoder- 1 * Buzzer- 1 * Neopixel LED- 1 * SH 1mm 4-Pin I2C connector- 2 * SH 1mm 6-Pin- 1 * USB Type-C- 1 * MX 1.25mm 2-Pin battery slot, support charging- 2 * M3 Screw Holes **Hardware Specifications** BPI-Centi-S3 Spec- SoC: ESP32-S3, Xtensa® 32-bit LX7 dual-core processor - Clock Frequency: 240MHz MAX - Internal ROM: 384 KB - Internal SRAM: 320 KB - Onboard FLASH ROM: 8MB - On-chip PSRAM: 2MB - WIFI: IEEE 802.11 b/g/n, 2.4Ghz frequency band, 150Mbps - bluetooth: Bluetooth 5, Bluetooth mesh - External crystal oscillator: 40Mhz - RTC and LowPower Management: Power Management Unit (PMU) + Ultra-Low-Power Coprocessor(ULP) - GPIO: 9 available GPIOs have been exported to the SH 1mm socket - Support Peripherals: I2C, SPI, PWM, UART, RMT, I2S, SD - JST SH 1mm socket: 1 * 4Pin, 2 * 6Pin - USB: 1 * Full Speed USB 2.0 OTG, Type-C Female - USB Serial/JTAG Controller: 1, USB full speed standard, CDC-ACM, JTAG - TFT LCD size: 1.9 inches - TFT LCD resolution: 170 * 320 RGB - TFT LCD control chip: ST7789V3 - TFT LCD interface: 8bit 8080 parallel port - Encoder: 1 * Incremental Rotary Encoder, support pressing function - Buzzer: 1- Colour LED: 1 * WS2812 2020 LED - Button: RST Button, BOOT Button - Screw Holes: 2 * M3 Screw Holes - Machine working temperature: -20? ~ +60? - Working voltage: 3.3V - USB input voltage: 3.3V-5.5V - Maximum discharge current: 2A@3.3V DC/DC - Battery connector: MX 1.25mm 2-Pin - USB charging: Support - Maximum charging current: 500mA

Specifications

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

