

Item no.: BPI-F2P

## BANANA PI BPI-F2P - Industrial Controller Board

from **83,73 EUR**

Item no.: BPI-F2P  
shipping weight: 0.20 kg  
Manufacturer: BPI



### Product Description

The Banana Pi BPI-F2P uses a Sunplus chip design, this is an industrial control board. It uses Plus1 (sp7021) design, the same as Banana Pi BPI-F2S. It supports PoE function with a PoE module, as well as RS232 and RS485, so you can use it as an industrial control gateway. SunPlus sp7021 is a revolutionary SoC that has the power of a Linux-grade chip and the integration simplicity of a microcontroller. It is equipped with an ARM Cortex-A7 Quad core, ARM926 real-time core, 8051 low-power core. Conceived by Sunplus Technology in collaboration with Tibbo Technology, PLUS1 takes all the sophisticated elements typically found in modern industrial-grade embedded Linux chips, adds a plethora of features targeting IoT and industrial control applications, and delivers the resulting design in a simple microcontroller-like package that needs few external components, simplifies the schematic diagram, and reduces the PCB complexity. SP7021 is a SoC solution of industrial control. It meets the customers' full demand on function but with low cost so that will improve the competitiveness in the market. SP7021 provides rich GPIOs, storage and a USB interface. And it provides a MIPI CSI interface for video input and HDMI interface for video output. It also provides an FPGA interface for function extension. SP7021 also has 4 Ethernet ports providing customers a high competitive solution. Main Features:- Sunplus SP7021 "Plus1" quad-core Cortex-A7 processor- 512 MB DDR3 DRAM- 8 GB eMMC- 2x 10/100M Ethernet- Industrial grade temperature range: -40°C ~ +85°C Application areas:- IoT/Industrial Internet control- Smart audio- Smart payment system- Vehicular networking technology and applications

- SoC: Sunplus SP7021 "Plus1" with a quad-core Cortex-A7 processor @ 1.0 GHz, one ARM A926 microprocessor, an 8051 core to handle I/Os, and 128 MB or 512 MB DDR3 DRAM- Storage: 8 GB eMMC flash, microSD card slot- Video output: HDMI 1.4 output- Camera interface: MIPI CSI connector- Connectivity: 2x 10/100M Ethernet- USB: 2x USB 2.0 host ports, 1x micro USB port- 2x USB header interface- 40-pin GPIO header compatible- 7.4 V Lithium battery power supply interface- RTC battery interface- PoE function support- Debugging: 3-pin header for UART console, SWD ICE port- Security: TPM 2.0 via ST33TPH2E12C secure element- Misc: Power switch, reset button, boot selection dip switch- Power supply: 12 V DC via power barrel jack- Dimensions: 130x85 mm- Temperature range: -40°C ~ +85°C

### Specifications

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

