

Item no.: 384130

BPI-F2S - Banana Pi

from **68,73 EUR**

Item no.: 384130
 shipping weight: 0.20 kg
 Manufacturer: BPI



Product Description

Banana Pi BPI-F2S FPGA Board with Sunplus Plus1(sp7021) design with 512M RAM and 8G eMMC Sunplus SP7021 "Plus1" quad-core Cortex-A7 processor 128MB or 512MB DDR3 DRAM 8GB eMMC 2x 10/100M Ethernet industrial grade: -40C ~ +85°C FPGA Interface Option: FPGA board Xilinx Artix-7 XC7A100T, 32 MByte QSPI Flash memory, power by single 3.3V Banana Pi BPI-F2S is the first board with Banana Pi team and SunPlus, this is an industrial-grade board. use Plus1(sp7021) design. this is an industrial-grade board. we also design a Xilinx Artix-7 FPGA extend board. Banana Pi BPI-F2S Soc design and Xilinx Artix-7 FPGA development kit SunPlus sp7021 is a revolutionary SoC that has the power of a Linux-grade chip and the integration simplicity of a microcontroller. it with 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 customers' full demand on function but with low cost so that will improve customers' competitiveness in the market. SP7021 provides rich GPIOs, storage and USB interface. And it provides MIPI CSI interface for video input and HDMI interface for video output. It also provides FPGA interface for function extension. SP7021 also has 4 Ethernet ports providing customers a high competitive solution. Hardware Spec: - 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 128MB or 512MB DDR3 DRAM. - Storage - 8GB eMMC flash, microSD card slot - Video Output - HDMI 1.4 output - Camera I/F - MIPI CSI connector - Connectivity - 2x 10/100M Ethernet - USB - 2x USB 2.0 host ports, 1x micro USB port - 40-pin GPIO header compatible with Raspberry Pi header - 2x 50-pin FPGA interface for Trend Electronic TE0725LP-01-100-2D Artix 7 FPGA board - Unpopulated, undocumented 50-pin header that's appears to be routed to one of the headers for the optional FPGA board - Debugging - 3-pin header for UART console, 10-pin JTAG header, SWD ICE port - Security - TPM 2.0 via ST33TPH2E12C secure element - Misc - Power switch, reset button, boot selection dip switch - Power Supply - 12VDC via power barrel jack - Dimensions - 135x80mm - Temperature Range - -40C ~ +85°C Kit include: - BPI-F2S sunplus board - 2. FPGA board: Xilinx Artix-7 XC7A100T, 32 MByte QSPI Flash memory, power by single 3.3V - 3. teaching sheet board : 4 digit 7 segment digital tube teaching, DIP8 socket for SPI flash IP authentication, 8 LED lights are used for teaching - 4. debug tooling - 5. 12v/2A adapter

Specifications

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 prices and availability

