

ESP32-CAM PROGRAMMING BOARD

USB-C PROGRAMMING AND UART COMMUNICATION BOARD FOR THE SBC-ESP32-CAM

JOY-IT

SPECIAL FEATURES

- ✓ Easy programming via USB Type-C
- ✓ Designed for the Joy-IT SBC-ESP32-CAM
- ✓ Switchable programming and communication modes
- ✓ Integrated CH340C USB-to-UART converter
- ✓ RX and TX status LEDs
- ✓ 5 V power supply and 3.3 V logic level



The SBC-ESP32-CP is a compact programming and communication board designed for the Joy-IT SBC-ESP32-CAM. It enables convenient programming of the camera module via the integrated USB Type-C interface, eliminating the need for an additional USB-to-serial adapter. The built-in CH340C USB-to-UART converter provides a reliable connection between the computer and the ESP32-CAM.

A practical switch allows quick selection between programming mode and UART communication mode. This makes it easy to upload new software to the connected SBC-ESP32-CAM and then communicate with or monitor the module directly via the serial interface. Separate RX and TX status LEDs clearly indicate active data transmission and simplify monitoring during programming, development and troubleshooting.

The SBC-ESP32-CP is powered with 5 V via USB-C and operates with 3.3 V logic levels. Its clearly accessible connections and pin assignment tailored to the SBC-ESP32-CAM allow fast and straightforward setup. The board is therefore ideal for development projects, prototypes, test setups and applications involving cameras, Wi-Fi or IoT functionality.

TECHNICAL SPECIFICATIONS

Compatible Joy-IT boards	SBC-ESP32-CAM
Pin-to-pin spacing on pin headers	2.54 mm
Pin row spacing	22.86 mm
Interface	USB Type-C / USB 2.0
Converter IC	CH340C
Supply voltage	5 V DC
Logic level	3.3 V
Special features	Switch for selecting between programming and UART communication modes, RX and TX status LEDs

ADDITIONAL INFORMATION

Weight	6 g
Dimensions	38 x 27 x 12 mm
Article no.	SBC-ESP32-CP
Items shipped	1x ESP32 CAM Programmer
Customs tariff number	84718000000
EAN	4250236830612

