

EdgeBox-ESP-100

ESP32-based Industrial Controller Designed for Lightweight Automation Solutions

A PLC and IIoT Gateway that carries wireless capabilities and supports multiple Fieldbus

Multi-Fieldbus Support

CAN, RS485, EtherNet

Multi-wireless Capability

Built-in Wifi, BLE connectivity; built-in Cellular 4G LTE module

Reliable Hardware Design

Rugged, maintenance-reduced structure

Reliable Electrical Design

High isolation, high surge, and short circuit protection

IEC 61131-3 Compliant Programs Support

Support IEC61131-3 standard with third-party industrial software Codesys (under development)



Applications



SCADA



Industrial Gateway



Industrial Controller

Specifications

| Parameters | Details |
|-----------------------|--|
| Basic | |
| CPU | ESP32S3 |
| Memory | 512KB + 8MB RAM |
| Storage | 16MB Flash |
| Wireless | |
| WiFi | onchip 2.4 GHz |
| Bluetooth | onchip Bluetooth 5.0, BLE |
| Cellular | Built-in 4G - SIMCom LTE Cat 1 module |
| LoRa | Supported*(optional) |
| Interface | |
| Ethernet | 1 x 100M RJ45 |
| USB | 1 x USB2.0 A |
| CAN BUS | 1 x CAN BUS (isolated) |
| RS485 | 1 x RS485 (isolated) |
| Digital Input | 4 (isolated) onboard DC input Voltage - 24V |
| Digital Output | 6 (isolated) Recommended Voltage - 24V |
| Analog Input | 4 (isolated) Input: 0 ~ 20 mA default, 0-10V optional |
| Analog Output | 2 (isolated) Output: 0 ~ 5 V |
| Power Supply | 10.8 ~ 36 V |
| Extra Features | |
| RTC | RTC |
| Encryption Chip | Atecc608a (optional) |
| Operation Temperature | -20 to +60 °C |
| Certification | RoHS, CE, FCC, UKCA |
| Warranty | 2-year warranty |
| Mounting | DIN Rail, Wall Mount |

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*This box supports LoRaWAN communication, but requires soldering to replace the 4G module. If you want to customize it in LoRaWAN communicating, you can email us with produce@seeed.cc.



EdgeBox-ESP-100 ESP32-based Industrial Edge Controller

512KB + 8MB RAM
SKU 102991735