

SFAR-S-ETH

SFAR-S-ETH module is a **Modbus TCP to Modbus RTU/ASCII gateway**. The device has the **Ethernet and RS485 interface, 4x DI (Digital Inputs) with counters and 3x RO (Relay Outputs)**. All inputs and outputs are isolated from RS485 and power supply with use of optical isolators. The communication takes place with the benefit of Modbus TCP protocol. The use of **32-bit ARM core processor** provides fast processing and communication with the baud rate from **2400 to 115200 bps**. The device is equipped with a set of **LEDs** used to indicate the status of inputs, outputs, power supply and RS485 communication. This feature is useful for diagnostic purposes and helping to find errors.

Built-in mini **USB** allows for initial configuration of the unit without power supply.

To simplify installation the modules have been equipped with **Quick Connector** system. Using dedicated **SFAR-S-LINK** cable allows to connect up to 15 modules which provide both RS485 communication and power supply.

Key Features

- Modbus TCP to RS485 Gateway
- Configuration through web browser
- 1x ETH interface
- 1x RS485 interface
- 4x Digital Input with counters
- 3x Relay Output
- Watchdog function for outputs
- Built-in LEDs for device status indication
- Modbus RTU/ASCII communication
- Baud rate: 2400 bps to 115200 bps
- Up to 128 modules on the bus
- Built-in mini USB type B port for configuration
- Fast and easy connection with SFAR-S-LINK
- Space-saving housing, DIN rail mount



SFAR-S-ETH

Specification

Digital Inputs (DI)

- Input type: PNP or NPN
- Fast pulse counter up to 1 kHz

Relay Outputs (RO)

- Relay Output (NO) max. 3 A @ 30 V DC, 3 A @ 230 V AC

Platform

- ARM Cortex-M3

Communication

- Interface RS485 half-duplex
- Up to 128 devices on the bus
- Protocol: Modbus RTU/ASCII
- Baud rate: 2400 to 115200 bps
- Interface mini USB type B

Power supply

- 12-24 V DC \pm 20%

Housing

- Dimension WxHxD: 22.7x110.8x119.1 mm
- Construction: UL approved, self-extinguishing plastic (PC/ABS)
- DIN rail mounting DIN (DIN EN 50022 norm)
- Cooling: internal air circulation

Environment

- Operating temperature: -10°C to 50°C
- Storage temperature: -40°C to 85°C
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40 – for indoor installation

Dimensions

