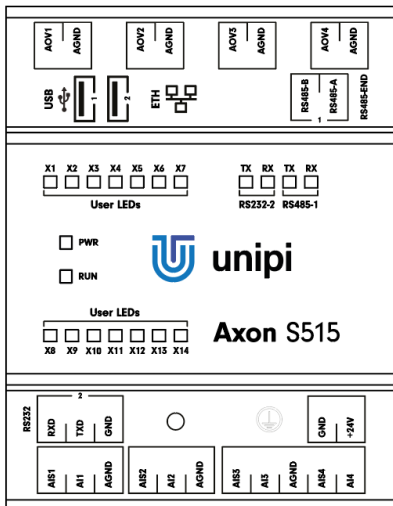


Unipi Axon S515

PRODUCT DESCRIPTION

Unipi Axon S515 is a programmable logic controller (PLC) and gateway designed for automation, control, regulation and monitoring. As an entry model of the Axon 500 line, the S515 features a set of analog inputs/outputs while retaining its compact size. That makes it suitable for use in small projects including reading data from analog sensors and/or controlling various analog components. The S515 also features a pair of serial interfaces (RS485 + RS232) for connection of extension modules or gateways.



COMPUTING MODULE

Allwinner H5 1.2 GHz quad-core CPU, 1GB RAM, 8GB eMMC onboard memory

FEATURES

Inputs/outputs

- 4 × analog input
- 4 × analog output

Software

- Powered by OS Linux
- Mervis – IDE (IEC 61131-3), HMI editor, proxy server, cloud database, SCADA, wide range of supported protocols
- Open-source solutions – Node-RED, openHAB, Homebridge, FHEM, PiDome, DomotiGa, Domoticz, Pimatic and many more
- Custom SW implementation– EVOK open API, Modbus TCP interface, SysFS

FUNCTIONALITY

Automation, IoT and IIoT, remote online monitoring and regulation, HVAC control, SCADA, sensorics, smart home control (lighting, doors, locks, irrigation etc.)

Communication interfaces

- 1 × RS485
- 1 × RS232
- 1 × 1Gbit Ethernet
- 2 × USB 2.0

Other features

- Built-in webserver
- Special functions – Direct Switch, MasterWatchdog, user LEDs
- Durable aluminium chassis (IP20)
- Extended operating temperature range
- Available in an OEM variant
- Custom development available (IQRf, LoRa, wM-Bus, ZigBee, EnOcean and more)

Unipi Axon S515

• Communication

| | |
|-----------------------------------|---------------------------|
| Ethernet | 1 × 1Gbit Ethernet |
| Serial/bus channels | 1 × RS485, 1 × RS232 |
| RS485 transmission speed | 134 baud .. 115 200 baud |
| RS485 galvanic isolation | Yes |
| RS485 biasing resistors | Yes, 560 Ω |
| RS485 terminating resistor | Builitn attachable, 120 Ω |
| RS232 transmission speed | 50 baud .. 3 Mbaud |
| RS232 galvanic isolation | No |
| WiFi | IEEE 802.11 b/g/n |
| Bluetooth | 4.0, Low Energy (BLE) |
| WiFi/Bluetooth antenna | Internal |
| USB | 2 × USB 2.0 |

• Analog inputs

| | |
|--------------------------------------|---|
| Nr.of inputs × groups | 4 × 1 |
| Common connector | AGND |
| Available functions | 0-10 V / 0-2.5 V 0-20 mA 0-1960 Ω 0-100 kΩ |
| Galvanic isolation | Yes |
| Resolution | 16 bits – U, I 24 bits – R |
| Conversion speed | 60 μs – U, I 400 ms – R |
| Input resistance | 44 kΩ – U 100 Ω – I |
| Resistance measurement method | 2/3wire |

• Analog outputs

| | |
|--------------------------------------|--------------|
| Nr.of outputs × groups | 4 × 1 |
| Common connector | AGND |
| Available functions | 0-10 V |
| Galvanic isolation | Yes |
| Max. voltage/current | 10 V / 25 mA |
| Resolution | 12 bits |
| Conversion speed | 300 μs |
| Resistance measurement method | – |

• Power supply

| | |
|------------------------------------|-----------------------|
| Rated voltage - SELV | 24 V DC |
| Power consumption | Typ. 5 W Max. 14 W |
| Reverse polarity protection | Yes |

• Installation and operating conditions

| | |
|--|---|
| Operating conditions | 0 °C .. + 70 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapor and fog |
| Storing conditions | - 25 °C .. + 70 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapor and fog |
| Degree of protection IP (IEC 529) | IP 20 |
| Operation position | Horizontal |
| Installation | On 35mm DIN rail into distribution box (holder included) |
| Connection | Pluggable terminal blocks |
| Wire gauge | Max. 2.5 mm ² |

• Dimensions and weight

| | |
|-------------------|-----------------|
| Dimensions | 70 × 90 × 60 mm |
| Weight | 202 g |

• Standards compliance

| |
|-----------------------------|
| EN 60730-1 ed.3:2012 |
| RoHS |
| WEEE |