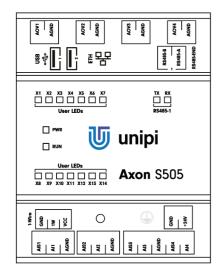


Unipi Axon S505

PRODUCT DESCRIPTION

Unipi Axon \$505 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 \$505 features a set of analog inputs/outputs while retaining its compact size. That makes it applicable in small projects including reading data from analog sensors and/or controlling various analog components. The \$505 also features a single R\$485 serial interface for connection of extension modules or gateways and a 1-Wire interface for connection of digital temperature or humidity sensors.







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 × 1-Wire bus

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, ZiqBee, EnOcean and more)







Unipi Axon S505

Communication

Ethernet	1 × 1Gbit Ethernet
Serial/bus channels	1 × RS485, 1 × 1-Wire
RS485 transmission speed	134 baud 115 200 baud
RS485 galvanic isolation	Yes
RS485 biasing resistors	Yes, 560 Ω
RS485 terminating resistor	Builtin attachable, 120 Ω
1-Wire galvanic isolation	Yes
1-Wire output voltage Vcc	5 V
1-Wire max. current Vcc	50 mA
1-Wire connector	3 × pole, max. 1.5 mm ²
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

• Dimensions and weight

Dimensions	70 × 90 × 60 mm
Weight	202 g

• Standards compliance

EN 60730-1 ed.3:2012	
RoHS	
WEEE	