

UniPi Axon S205



Model	DI	DO	RO	AI	AO	Communication	CPU	RAM	eMMC	Other features
S205	8	-	8	-	-	1× RS485 1× 1-Wire bus 1× 1Gbit Ethernet	4× 1.2 GHz	1 GB	8 GB	WiFi Bluetooth

Basic features

- OS Linux
- Power supply 24 V DC
- Real-time clock (RTC) with backup up to 7 days
- 1Gb Ethernet
- USB for connecting other devices
- RS485 serial interface for connection of extension or communication modules
- Direct Switch function
 - Rapid input response within the group – tens of μ s
 - Available features: identity, negation, toggle
- Watchdog function for monitoring of the control system
- Save and restore settings and fail-safe state of outputs to NVRAM and reload at startup
- 1-Wire bus hardware restart function
- Wide array of software platforms
 - PLC platforms for easy control implementation
 - Mervis
 - REX
 - Opensource platforms for easy implementation of customer solutions
 - SysFS
 - Modbus TCP
 - Modern HTTP interface (WebSocket, REST, ...)
- Ready for wireless technology implementation – Lora, Zigbee, IQRF, Sigfox, EnOcean, GSM, LTE...
- In-built webserver for user application display
- Compact dimensions, easy installation to a DIN rail



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Communication

Ethernet	1× 1Gbit Ethernet
Serial/bus channels	1× RS485, 1× 1-Wire
Transmission speed RS485	50 baud .. 3 Mbaud
Galvanic isolation RS485	Yes
Galvanic isolation 1-Wire	Yes

Digital inputs

Number of inputs × groups	8 × 1
Common connector	DIGND
Galvanic isolation	Yes
Functions of inputs	Signalization, counter, Direct Switch
Operation range	5 – 40 V DC
Input voltage of log. 0	Max. 3,5 V DC
Input voltage of log. 1	Min. 5 V DC
Input resistance of log. 1	6 200Ω
Delay 0→1/1→0	20 μs / 60 μs

Relay outputs

Number of outputs × groups	2 × 3, 1 × 2
Galvanic isolation	Yes
Type of contact	Closing contact
Switchable voltage	250 V AC/30 V DC
Switchable current	5A
Short time overvoltage	5A
Current via common conn.	10A
Time to switch on/off	10ms
Mechanical lifetime	5 000 000
Electrical lifetime	100 000
Protection against shortage	No
Inductive load protection	External
Isolation voltage	4 000 V AC

Dimensions and weight

Dimensions	72 × 90 × 59 mm
Weight	176 g

Power supply

Rated voltage - SELV	24 V DC
Voltage tolerance	-15% .. +25% 20,4 .. 30 V DC
Power consumption	Typ. 5,5 W Max. 14,5 W
Internal protection	Yes

Installation and operating conditions

Operating temperature	0 °C .. + 55 °C
Storing temperature	-25 °C .. +70 °C
Dielectrical strength	According to EN 60950
Degree of protection IP	IP20
Operation position	Horizontal
Installation	On 35mm DIN rail into distribution box
Connection	Pluggable terminal blocks
Wire gauge	Max. 2,5 mm ²

Standard compliance

ČSN EN 6060730-1
ČSN EN 6095-1 ed. 2
ČSN EN 61000-6-3 ed. 2
ČSN EN 55014-1 ed. 3
ČSN EN 55022 ed. 3
2006/95/EC, 2004/108/ES, 2014/35/EU, 2014/30/EC