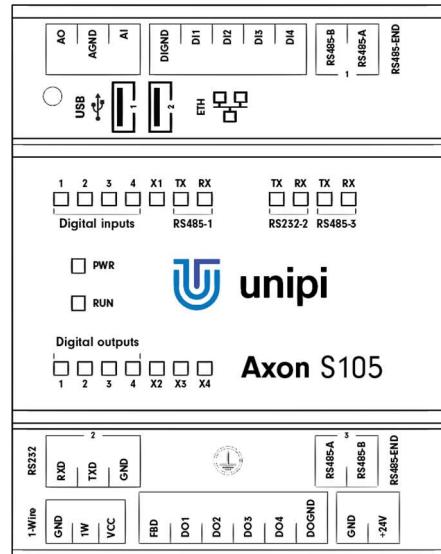


UniPi Axon S105

Model	DI	DO	RO	AI	AO	Communication	CPU	RAM	eMMC	Other features
S105	4	4	-	1	1	2x RS485 1x RS232 1x 1-Wire bus 1x 1Gb Ethernet	4x 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
- 2x USB for connecting other devices
- RS485 & RS232 serial interfaces 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, ...)
- 4x user-configurable LEDs
- 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



 Communication		 Analog inputs
Ethernet	1× 1Gb Ethernet	Number of inputs × groups 1 × 1
Serial channels	1× RS485, 1× 1-Wire	Common connector AGND
Comm. speed RS485 1	134 baud .. 115 kbaud	Available functions 0 – 10 V 0 – 20 mA
Comm. speed RS485 3	50 baud .. 3 Mbaud	Galvanic isolation No
Galvanic isolation RS485	Yes	Resolution 12 bits
Comm. speed RS232	50 baud .. 3 Mbaud	Conversion speed 10µs
Galvanic isolation RS232	No	
Galvanic isolation 1-Wire	Yes	
 Digital inputs		 Analog outputs
Number of inputs × groups	4 × 1	Number of outputs × groups 1 × 1
Common connector	DIGND	Common connector AGND
Galvanic isolation	Yes	Available functions AO 0 – 10V / 0 – 20mA Resistance measure: 0 – 2 kΩ, Ni1000, Pt1000
Functions of inputs	Signalization, counter, Direct Switch	Galvanic isolation No
Operation range	5 – 24 V DC	Resolution 12 bits
Input voltage of log. 0	Max. 3,5 V DC	Range/current 10V/20mA
Input voltage of log. 1	Min. 5 V DC	Conversion speed 1ms
Input resistance of log. 1	6 200Ω	
Delay 0->1/1->0	20 µs / 60 µs	
 Digital outputs		 Power supply
Number of outputs × groups	4 × 1	Rated voltage - SELV 24 V DC
Common connector	DOGND	Voltage tolerance -15% .. +25% 20,4 .. 30 V DC
Galvanic isolation	No	Power consumption Typ. 3W Max. 12W
Type of output	Transistor	Internal protection Yes
Additional functions	PWM	
Switchable voltage	5 – 50 V DC	
Switchable current continual/pulse	750 mA / 1 A	
Max. total current DO1.1-1.4	1A	
Time to switch on/off	Typ. 130 ns / 20ns	
Switching speed	Max. 200 kHz/8bit	
 Dimensions and weight		 Installation and operating conditions
Dimensions	72 × 90 × 59 mm	Operating temperature 0 °C .. + 55 °C
Weight	172 g	Storing temperature -25 °C .. +70 °C
		Dielectrical strength In accordance with EN 60950
		Degree of protection IP (IEC 529) IP20
		Operation position Horizontal
		Installation On 35mm DIN rail into distribution box
		Connection Pluggable terminal blocks
		Wire gauge Max. 2,5 mm²
 Dimensions and weight		 Standards compliance
Dimensions	72 × 90 × 59 mm	ČSN EN 6060730-1
Weight	172 g	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

