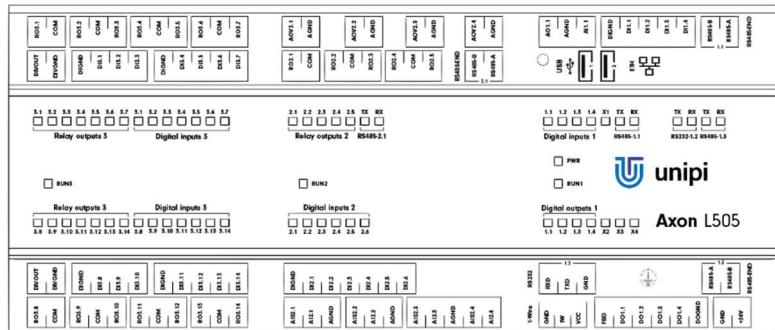


UniPi Axon L505

Model	DI	DO	RO	AI	AO	Communication	CPU	RAM	eMMC	Other features
L505	24	4	19	5	5	3x RS485 1x RS232 1x 1-Wire bus 1x 1Gbit 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
- USB for connecting other devices
- RS485 & RS232 serial interfaces for connection of extension or communication modules
- 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, ...)
- 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	1x 1Gbit Ethernet	Nr. of inputs × groups	4 × 1
Serial/bus channels	3x RS485, 1x RS232, 1x 1-Wire	Common connector	AGND
Transmission speed RS485 1.1, 2.1	134 baud .. 115 kbaud	Available functions	0 - 10 V 0 - 20 mA 0 - 1960 Ω 0 - 100 kΩ
Transmission speed RS485 1.3	50 baud .. 3 Mbaud	Galvanic isolation	Yes
Galvanic isolation RS485	Yes	Resolution	24 bits - R 16 bits - U, I
Transmission speed RS232	50 baud .. 3 Mbaud	Conversion speed	400 ms - R 60µs - U, I
Galvanic isolation RS232	No		10µs
Galvanic isolation 1-Wire	Yes		
 Digital inputs		 Analog outputs	
Number of inputs × groups	4 × 3, 3 × 2, 6 × 1	Nr. of out. × groups	4 × 1
Common connector	DIGND	Common connector	AGND
Galvanic isolation	Yes	Available functions	0 - 10 V AO:0 - 10V / 0 - 20mA AI: 0 - 2 kΩ Ni1000, Pt1000
Functions of inputs	Signalization, counter, Direct Switch	Galvanic isolation	Yes
Operation range	5 - 30 V DC	Resolution	12 bits
Input voltage of log. 0	Max. 3,5 V DC	Conversion speed	300 µs
Input voltage of log. 1	Min. 5 V DC		1 ms
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. 10,5 W Max. 19,5 W
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	1A		
DO1.1 – DO1.4			
Time to switch on/off	Typ. 130 ns / 20ns		
Switching speed	Max. 200 kHz/8bit		
 Relay outputs		 Installation and operating conditions	
Number of outputs × groups	2 × 8, 1 × 3	Operating temperature	0 °C .. + 55 °C
Galvanic isolation	Yes	Storing temperature	-25 °C .. +70 °C
Type of contact	Closing contact	Dielectrical strength	According to EN 60950
Switchable voltage	250 V AC/30 V DC	Degree of protection IP	IP20
Switchable current	5A	Operation position	Horizontal
Short time overvoltage	5A	Installation	On 35mm DIN rail into distribution box
Current via common conn.	10A	Connection	Pluggable terminal blocks
Time to switch on/off	10ms	Wire gauge	Max. 2,5 mm²
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		 Standard compliance	
Dimensions	210 × 90 × 59 mm	ČSN EN 6060730-1	
Weight	402 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	

