+UniPi Axon S515

Model	DI	DO	RO	AI	AO	Communication	CPU	RAM	eMMC	Other features
S515	-	-	-	4	4	1× RS485 1× RS232 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 & 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
- 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

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✿ Communication

Ethernet	1× 1Gbit Ethernet
Serial/bus channels	1× RS485, 1x RS232
Transmission speed RS485	50 baud .. 3 Mbaud
Galvanic isolation RS485	Yes
Transmission speed RS232	50 baud .. 3 Mbaud
Galvanic isolation RS232	No

✿ Analog inputs

Nr. of inputs × groups	4 × 1
Common connector	AGND
Available functions	0 – 10 V 0 – 20 mA 0 – 1960 Ω 0 – 100 kΩ
Galvanic isolation	Yes
Resolution	24 bits – R 16 bits – U, I
Conversion speed	400 ms – R 60µs – U, I

✿ Analog outputs

Nr. of out. × groups	4 × 1
Common connector	AGND
Available functions	0 – 10 V
Galvanic isolation	Yes
Resolution	12 bits
Conversion speed	300 µs

✿ Dimensions and weight

Dimensions	72 × 90 × 59 mm
Weight	173 g

✿ Power supply

Rated voltage - SELV	24 V DC
Voltage tolerance	−15% .. +25% 20,4 .. 30 V DC
Power consumption	Typ. 3,5 W Max. 12,5W
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