

Unipi Axon M525

• Communication

Ethernet	1 × 1Gbit Ethernet
Serial/bus channels	3 × RS485, 1 × RS232, 1 × 1-Wire
RS485 1.1, 2.1 transmission speed	134 baud .. 115 200 baud
RS485 1.3 transmission speed	50 baud .. 3 Mbaud
RS485 galvanic isolation	Yes
RS485 biasing resistors	Yes, 560 Ω
RS485 terminating resistor	Builitin attachable, 120 Ω
RS232 transmission speed	50 baud .. 3 Mbaud
RS232 galvanic isolation	No
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

• Digital inputs

Nr.of inputs × groups	4 × 2
Common connector	DIGND
Galvanic isolation	Yes
Functions of inputs	Counter (incl. memory), signalization, Direct Switch
Max. frequency of counter input signal	10 kHz
Input voltage of log. 0	Max. 3 V DC
Input voltage of log. 1	Min. 7 V DC
Max. input voltage	35 V DC
Input resistance	6 200 Ω
Delay 0→1/1→0	20 μs / 60 μs

• Digital outputs

Nr.of outputs × groups	4 × 1
Common connector	DOGND
Galvanic isolation	No
Type of output	NPN transistor (open collector)
Optional functions	PWM
Switchable voltage	5–50 V DC
Switchable current continual/pulse	750 mA / 1 A
Max. total current DO 1.1–1.4	1 A
PWM max. frequency	200 kHz
PWM max. resolution	16 bits

• Relay outputs

Nr.of outputs × groups	1 × 2, 2 × 2
Galvanic isolation	Yes
Type of contact	Normally open (SPST)
Switchable voltage	250 V AC / 30 V DC
Switchable current	5 A
Short time overvoltage	5 A
Current via common conn.	10 A
Time to switch on/off	10 ms
Mechanical lifetime	5 000 000 cycles
Electrical lifetime	100 000 cycles
Protection against shortage	No
Inductive load protection	Not included
Isolation voltage	4 000 V AC

• Analog inputs

Nr.of inputs × groups	1 × 1	4 × 1
Common connector	AGND	AGND
Available functions	0–10 V 0–20 mA	0–10 V / 0–2.5 V 0–20 mA 0–1960 Ω 0–100 kΩ
Galvanic isolation	No	Yes
Resolution	12 bits	16 bits – U, I 24 bits – R
Conversion speed	10 μs	60 μs – U, I 400 ms – R
Input resistance	66 kΩ – U 100 Ω – I	44 kΩ – U 100 Ω – I
Resistance measurement method	–	2/3wire

• Analog outputs

Nr.of outputs × groups	1 × 1	4 × 1
Common connector	AGND	AGND
Available functions	AO 0–10 V / 0–20mA Resistance measurement: 0–2 kΩ (Pt/Ni1000)	0–10 V
Galvanic isolation	No	Yes
Max. voltage/current	10 V / 20 mA	10 V / 25 mA
Resolution	12 bits	12 bits
Conversion speed	1 ms	300 μs
Resistance measurement method	2wire	–

• Power supply

Rated voltage - SELV	24 V DC
Power consumption	Typ. 6 W Max. 15 W
Reverse polarity protection	Yes

• Installation and operating conditions

Operating conditions	0 °C .. + 70 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapor and fog
Storing conditions	- 25 °C .. + 70 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapor and fog
Degree of protection IP (IEC 529)	IP 20
Operation position	Horizontal
Installation	On 35mm DIN rail into distribution box (holder included)
Connection	Pluggable terminal blocks
Wire gauge	Max. 2.5 mm ²

• Dimensions and weight

Dimensions	140 × 90 × 60 mm
Weight	362 g

• Standards compliance

EN 60730-1 ed.3:2012
RoHS
WEEE