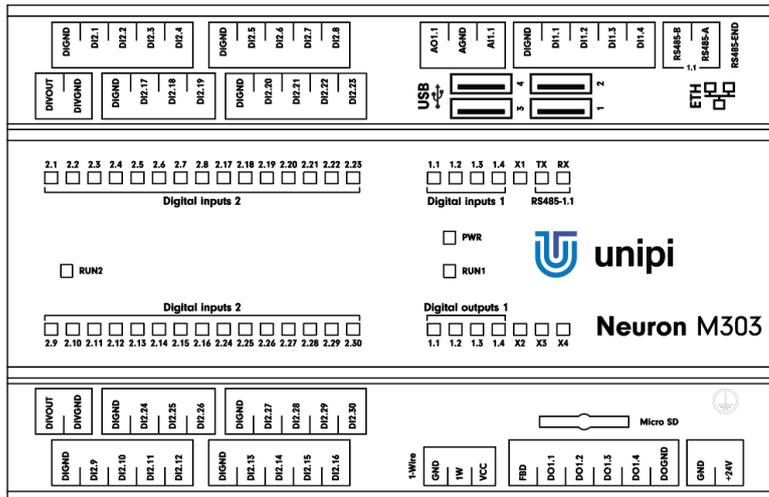


Unipi Neuron M303

PRODUCT DESCRIPTION

Unipi Neuron M303 is a programmable logic controller designed for automation, control, regulation and monitoring. The M303 is designed primarily for monitoring and reading data. For that purpose, it features 34 digital inputs with counters suitable for monitoring of external devices or reading data from various digital sensors or energy meters. The controller also features an RS485 serial interface and a 1-Wire interface for connection of digital temperature or humidity sensors.



Unipi Neuron M303

• Communication

Ethernet	1 × 10/100 Mbit Ethernet
Serial/bus channels	1 × RS485, 1 × 1-Wire
RS485 transmission speed	134 baud .. 115 200 baud
RS485 galvanic isolation	Yes
RS485 biasing resistors	Yes, 560 Ω
RS485 terminating resistor	Built-in attachable, 120 Ω
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 802.11b/g/n
Bluetooth	4.2, Low Energy (BLE)
WiFi/Bluetooth antenna	Internal
USB	4 × USB 2.0

• Digital inputs

Nr. of inputs × groups	3 × 2, 4 × 7
Common connector	DIGND
Galvanic isolation	Yes
Functions of inputs	Counter (w/o 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

• Analog inputs

Nr. of inputs × groups	1 × 1
Common connector	AGND
Available functions	0–10 V 0–20 mA
Galvanic isolation	No
Resolution	12 bits
Conversion speed	10 μs
Input resistance	66 kΩ – U 100 Ω – I
Resistance measurement method	–

• Analog outputs

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

• Power supply

Rated voltage - SELV	24 V DC
Power consumption	Typ. 3 W Max. 12 W
Reverse polarity protection	Yes

• Installation and operating conditions

Operating conditions	0 °C .. + 55 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapour and fog
Storing conditions	- 25 °C .. + 70 °C, relative humidity 10 % .. 95 %, without aggressive substances, condensing vapour 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	328 g

• Standards compliance

IEC 60950-1: 2005(ed.2)
EN 62311: 2008
EN 60730-1 ed.3:2012
EN 301 489-1
EN 301 487-17 Ver. 3.1.1
EN 300 328 Ver 2.1.1
EN 301 893 V2.1.1
RoHS
WEEE