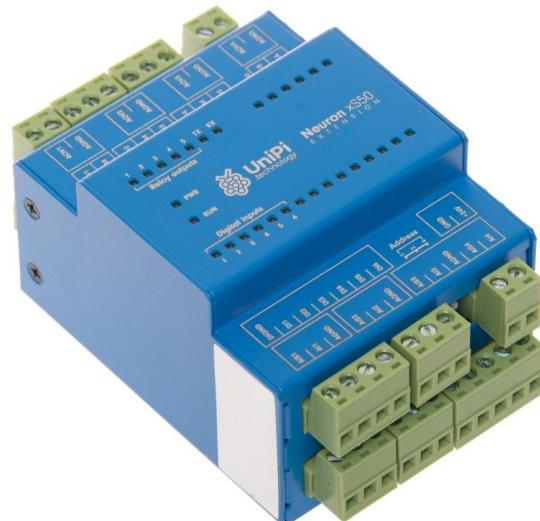


# Unipi Extension xS50

## PRODUCT DESCRIPTION

Unipi Extension xS50 is an extension module communicating via the RS485 serial interface (Modbus RTU). The module is a simple and inexpensive method of extending your project by additional inputs & outputs. The xS50 features a set of analog I/Os combined with a set of digital and relay I/Os. That makes it applicable for more extensive projects including measurements and control of analog components.

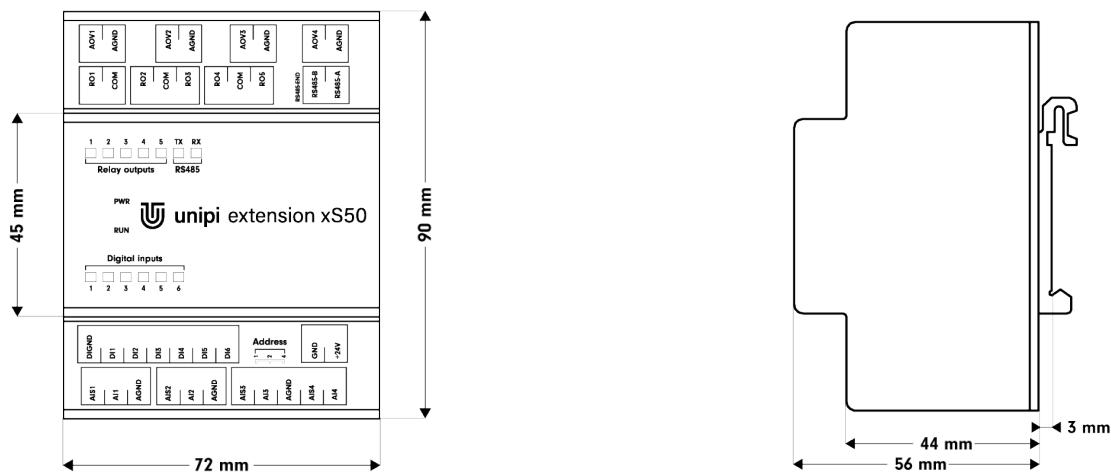


## INPUTS & OUTPUTS

- 1 × RS485 Modbus RTU with galv. isolation
- 6 × digital input (incl. pulse counter)
- 5 × relay output
- 4 × analog input
- 4 × analog output

## OTHER FEATURES

- Special functions
  - Direct Switch – automatic response to input value change
  - MasterWatchdog – switches outputs to a safe mode if communication with the PLC is interrupted
  - Configurable user LEDs.
- Durable aluminium chassis (IP20)
- Available in OEM variant.



# Unipi Extension xS50

- Communication

<b>Serial/bus channels</b>	1 × RS485
<b>RS485 transmission speed</b>	134 baud .. 115 200 baud
<b>RS485 galvanic isolation</b>	Yes
<b>RS485 pull-up/pull-down resistors</b>	No
<b>RS485 terminating resistor</b>	Attachable, 120 Ω

- Digital inputs

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

- Relay outputs

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

- Analog inputs

<b>Nr.of inputs × groups</b>	4 × 1
<b>Common connector</b>	AGND
<b>Available functions</b>	0-10 V / 0-2,5 V 0-20 mA 0-1960 Ω 0-100 kΩ
<b>Galvanic isolation</b>	Yes
<b>Resolution</b>	16 bits - U, I 24 bits - R
<b>Conversion speed</b>	60 µs - U, I 400 ms - R
<b>Input resistance</b>	44 kΩ - U 100 Ω - I
<b>Resistance measurement method</b>	2/3wire

- Analog outputs

<b>Nr.of outputs × groups</b>	4 × 1
<b>Common connector</b>	AGND
<b>Available functions</b>	0-10 V
<b>Galvanic isolation</b>	Yes
<b>Max. voltage/current</b>	10 V / 25 mA
<b>Resolution</b>	12 bits
<b>Conversion speed</b>	300 µs
<b>Resistance measurement method</b>	—

- Power supply

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

- Installation and operating conditions

<b>Degree of protection IP (IEC 529)</b>	IP 20
<b>Operation position</b>	Horizontal
<b>Installation</b>	On 35mm DIN rail into distribution box (holder included)
<b>Connection</b>	Pluggable terminal blocks
<b>Wire gauge</b>	Max. 2.5 mm <sup>2</sup>

- Dimensions and weight

<b>Dimensions</b>	72 × 90 × 56 mm
<b>Weight</b>	320 g

- Standards compliance

<b>EN 60730-1 ed.3:2012</b>	
<b>RoHS</b>	
<b>WEEE</b>	