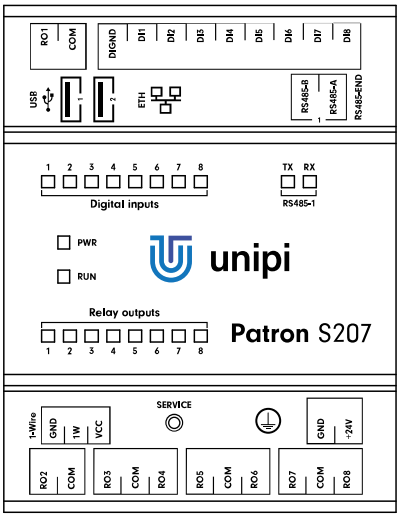
Unipi Patron S207

PRODUCT DESCRIPTION

Unipi Patron S207 is a programmable logic controller (PLC) and gateway designed for automation, control, regulation and monitoring. The S207 features a combination of digital inputs and relay outputs while retaining its compact size. That makes it applicable in a wide range of applications in simple installations that include monitoring, reading data from binary sensors and switching of external devices via relay outputs. The S207 also features a single RS485 serial interface for connection of extension modules or gateways and a 1-Wire interface for connection of digital temperature or humidity sensors.



mervis software included

NXP i.MX 8M

COMPUTING MODULE

i.MX 8M Mini quad-core CPU
(Arm© Cortex©-A53, max 1.8 GHz),
1 GB LPDDR4 RAM, GB eMMC onboard memory

FUNCTIONALITY

Automation, IoT and IIoT, remote online monitoring and regulation, HVAC control (heating, ventilation, air conditioning), SCADA, sensorics, smart home control (lighting, doors, locks, irrigation etc.)

FEATURES

Inputs/outputs

8 × digital input incl. counter
8 × relay output

Communication interfaces

1 × RS485
1 × 1-Wire bus
1 × 100 Mbit Ethernet
2 × USB 2.0

Software

- Powered by OS Linux
- Mervis – IDE (IEC 61131-3), HMI editor, proxy server, cloud database, SCADA, a wide range of supported protocols
- Open-source solutions – Node-RED, openHAB, Homebridge, FHEM, PiDome, DomotiGa, Domoticz, Pimatic and many more
- Custom SW implementation– EVOK open API, Modbus TCP interface, SysFS

Other features

- The most powerful compact controller on the market
- Developed and manufactured in the EU
- Durable aluminium chassis (IP20)
- Extended warranty (3 years)
- Special functionality – Direct Switch, MasterWatchdog, user LEDs
- Available in OEM variant, broad extension options – PoE/PoE+, microSD, wireless technologies (LTE, Wi-Fi, Zigbee, ...), Secure boot and more

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Communication

Ethernet	1 × 100 Mbit Ethernet
Serial/bus channels	1 × RS485, 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	Builtin 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 mm²
USB	2 × USB 2.0

Digital inputs

No. of inputs × groups	8 × 1
Functions of inputs	Counter (incl. memory), Direct Switch
Input type	SINK
Input terminal	DI
Common ground	DIGND
Maximum voltage for log. 0	3 V⎓
Minimum voltage for log. 1	7 V⎓
Maximum voltage	35 V⎓
Non-defined state	3-7 V⎓
Input resistence for log. 1	6 200 Ω
Voltage drop on DI diode	1.2 V
Minimum pulse length	20 µs
0->1 / 1->0 delay	Typ. 20 µs / 60 µs
Maximum CNT counter input frequency	10 kHz
Galvanic isolation	Yes (between the groups)
Insulation voltage	2 000 V

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 mm²

Power supply

Rated voltage - SELV	24 V⎓
Power consumption	Typ. 6 W Max. 14.5 W
Reverse polarity protection	Yes

Dimensions and weight

Dimensions	70 × 90 × 60 mm
Weight	238 g

Relay outputs

No. of inputs × groups	1 × 2, 2 × 3
Output type	Electromechanic non-shielded relay
Output terminal	RO
Common terminal	COM
Contact type	Normally open (SPST-NO)
Used relay type	FTR-F3AA024E-HA
Maximum switching voltage	250 V∿ 30 V⎓
Maximum switching current	5 A
Maximum common terminal current	10 A
Short-term current overload	5 A
Mechanical lifespan	5 000 000
Electrical lifespan	Up to 100 000 (according to the connected load)
Operate/release time	10 ms
Designed for load character	Resistive
Load handling	External (RC, varistor, diode, thermistor)
Short circuit protection	No
Overvoltage protection	No
Galvanic isolation	Yes
Insultaion voltage	4 000 V

Directive compliance

LVD:	**2014/35/EU**
EMC:	**2014/30/EU**
RoHS:	**2015/863/EU**
WEEE:	**2012/19/EU**