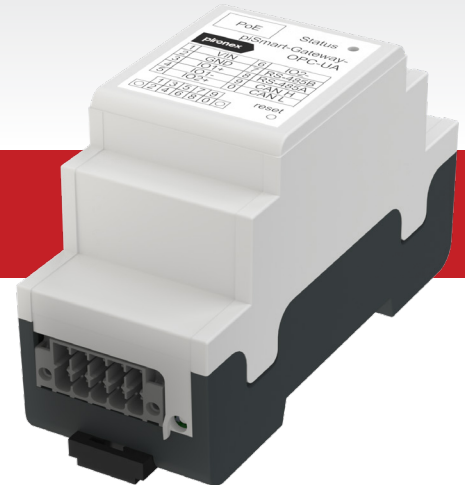




piSmart-Gateway-OPC-UA

SKU: 911131320



Features

- Ethernet (OPC-UA-capable)
- CAN bus (CANopen-capable)
- RS-485 (Modbus RTU-capable)
- PoE supply
- 2x galvanically isolated IOs
- WiFi (optional)

Overview

The compact industrial gateway in a top-hat rail housing is the ideal solution for connecting existing systems and sensors to modern control station systems. With a variety of industrial interfaces and a flexible power supply, it enables seamless integration as part of retrofit projects and the digitalization of existing machinery.

Interface diversity for maximum connectivity:

- › Ethernet (with OPC UA support): Standardized, secure communication with control systems and Industry 4.0 platforms.
- › CAN bus: Direct connection to machine control systems or existing fieldbus infrastructures.
- › RS-485: Compatible with numerous industrial protocols such as Modbus RTU, ideal for serial sensors and device communication.

Flexible power supply:

- › Power over Ethernet (PoE): Easy installation without separate power supply - ideal for decentralized applications.
- › Alternative: 12-24 VDC input for operation in classic control cabinets or machine environments.

Operating location

- Indoors

Target group

- B2B

Unique selling point

- PoE, variety of interfaces



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Technical data

Microcontroller/Processor

Processor	High-performance processor
Flash	16 MB
RAM	2.5 MB

Interfaces

Ethernet	10/100 Base-T, OPC-UA
CAN	CAN open, up to 1Mbit/s
RS-485	Modbus-RTU, half-duplex: max 20 Mbps
WiFi (optional)	IEEE 802.11b/g/n
2x input/output	
Max. voltage	26.4VDC
Low level UL (log „0“)	0VDC~8VDC
High level UH (log „1“)	9VDC~24VDC

Additional features

Display elements	1x RGB-LED
Control elements	1x button

Environmental Conditions

Operating location	Indoors, protect from direct sunlight
Operating temperature	-20°C to +60°C
Storage temperature	-20°C to +60°C
Transport temperature	-20°C to +50°C
Temperature change	5 K/min, no condensation permitted
Relative humidity	Max. 70%, condensation must be excluded
Height above sea level	Up to max. 2000 m
Height above sea level (storage/transport)	Up to 3000 m above sea level according to DIN 60204 / IEC 61131-2; at least 70 kPa air pressure
Gases	Avoid highly concentrated corrosive gases (e.g. H ₂ S, SO ₂ , Cl ₂ , HCl, etc.) -> Corrosion of the sensor structure and sensitivity attenuation



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Power supply

Voltage VDC	12VDC~24VDC or PoE
Current consumption I_{max}	0,25A
Power consumption P_{max}	3W

Guidelines

2014/35/EU	Low Voltage Directive (LVD)
2011/65/EU	Restriction of certain Hazardous Substances (ROHS)
2012/19/EU	Waste of Electrical and Eletronic Equipment (WEEE)

Harmonised standards

EN 301 489-1 V2.2.3	Electromagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
EN 301 489-17	Electromagnetic Compatibility (EMC) standard for radio equipment and services – Part 17: Specific conditions for Broadband Data Transmission Systems – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
EN 62311:2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
EN 62368-1:2014/AC:2015	Audio/video, information and communication technology equipment – Part 1: Safety requirements

Mechanical structure

Voltage VDC	12VDC~24VDC or PoE
Weight	70g
IP-Class	IP20
Material	PC, fire-rated according to UL 94 V-0