



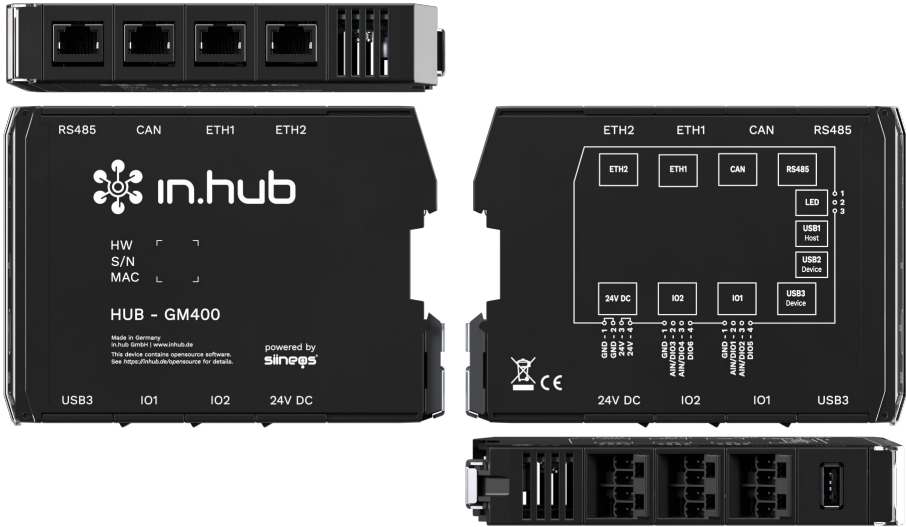
HUB-GM400

Technical data sheet

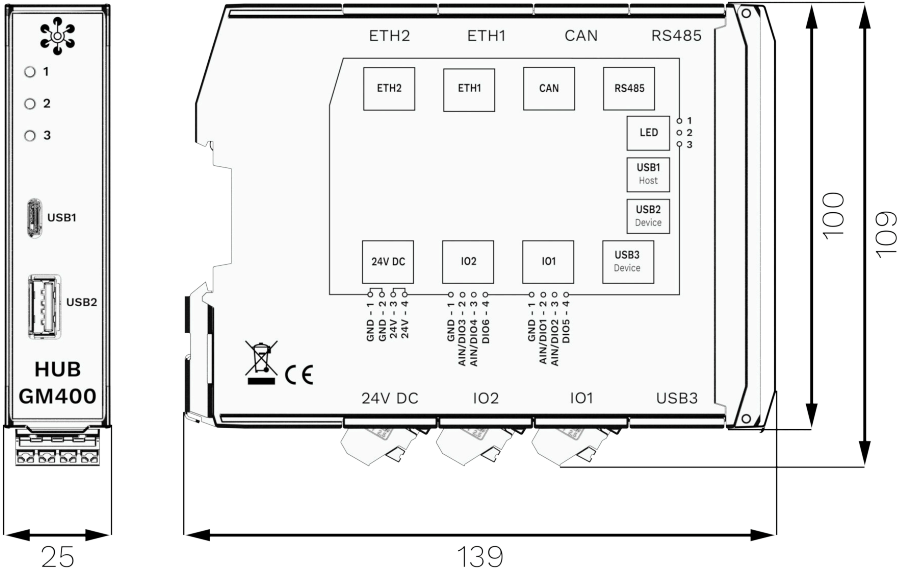
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Views of the HUB-GM400

Device views



Schematic diagram



Dimensions of the HUB-GM400 in mm

Technical data

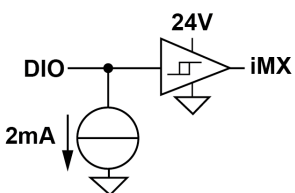
Data	
Power supply	24 V DC \pm 10 %
Max. power consumption	150 W
Processor	NXP® i.MX 8QuadMax, 4 x ARM Cortex-A35
Memory	2 GB LPDDR4 RAM, 8 GB eMMC
Data interfaces	USB1: Host (Micro USB) USB2: Device (USB-A) USB3: Device (USB-A) 2 x Ethernet: 100 Mbit/s 1 x CAN 1 x RS485 3 x status LEDs Backplane bus
Connections for peripheral devices	A total of 6 interfaces in IO1 and IO2, configurable in SIINEOS: up to 6 x as a digital input up to 6 x as a digital output up to 4 x as analogue input
Protocols	OPC UA server + client MQTT broker server + client Modbus TCP/IP broker client + server
Operating system	IIoT operating system SIINEOS (64 bit) for configuration and data visualization
Housing	Plastic (polyamide) black, flammability class UL 94 V0
Protection class	IP20
Dimensions	139 mm \times 100 mm \times 25 mm
Weight	183 g

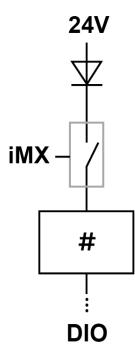
Ambient conditions	
Temperature range	Storage: -40°C to 85°C Operation: 0°C to 50°C
Humidity	Storage: 10% to 95% RH, non-condensing Operation: 20% to 90% RH, non-condensing
Operating altitude	Max. 2,000 m above sea level

Storage	
Recording interval	Minimum 1 second
Storage	Up to 8 GB usable
Data export	VictoriaMetrics

SIINEOS	
Pre-installed software	<p>FlexPlorer: Live data visualization</p> <p>Azure IoT Hub Connector: Connector to the Microsoft® IoT platform</p> <p>Cloud of Things Connector: Connector to the Telekom® IoT platform</p> <p>InGraf: Grafana data visualization</p> <p>NumCorder: Recording of scanned or entered barcodes / serial numbers</p> <p>OPC UA server: Counterpart to the OPC UA client, setting up of a server–client structure with one device</p> <p>NodeRED: Graphical programming of interfaces, services or hardware</p> <p>PromEx: Database configuration of VictoriaMetrics and Prometheus</p> <p>TOSIBOX®: Secure connectivity between the IoT devices</p> <p>SIGNL4 Connector: Forwarding of alarms to the SIGNL4 cloud</p>
I/O interfaces to third-party systems/devices	<p>S7 PLC client: Connector for the Siemens® S7 controller</p> <p>Sensirion SPS30: Temperature and humidity sensor</p> <p>TBEN-S1-8DIP: TBEN module from TURCK®</p> <p>TBEN-S2-4AI: TBEN module from TURCK®</p> <p>IO-Link master</p> <p>IO-Link device</p>

Specification of inputs and outputs

Configuration of DIO as a digital input	
Conformity	EN61131-2 Type 1/3
Switching threshold	Between 5 V and 11 V
Pull-down current	Typ. 2 mA
Bandwidth	From 6 Hz (with 12 channels, 2 edges) to 150 Hz (with 1 channel, 1 edge)*
Permissible input voltage range	-3 to 30 V
Circuit diagram**	

Configuration of DIO as a digital output	
Power supply	From 24 V Protective functions: Overload protection, reverse-current protection
Conformity	EN61131-2 nominal current 0.1 A
Max. output current	Typ. 120 mA
Switching interval	≥50 ms*
Voltage drop to 24 V	Max. 1 V
Circuit diagram**	

Analogue input AIN	
Operating modes	Current Voltage
Measuring range	0–11 V / 0–24 mA
Resolution	12 bit
Input resistance	101 k Ω (at 0–11 V)
Sampling interval	≥ 50 ms*
Permissible input voltage range	–3 to 30 V
Protective functions	Overload protection: in 20 mA mode, the current is limited to 22–30 mA
Circuit diagram**	

*Only if processor is not busy

**The hash (#) in the circuit diagram indicates the overload protection.

USB interface specifications

USB connections	
Max. power consumption for USB1 (Micro-USB on the front of the device)	5 W (1 A) May vary depending on the device connected: <ul style="list-style-type: none"> On a 24 V power supply, the power consumption is 0 On a 5 V power supply provided exclusively by USB, the digital and analogue outputs cannot be used.
Max. power output for USB2 and USB3	2.5 W (500 mA) each with 24 V supply
Support for	Full, high and low speed (480, 12 and 1.5 Mbit/s)
Circuit diagram*	

*The hash (#) in the circuit diagram indicates the overload protection.

CAN interface specification

CAN bus	
Voltage output	24 V (0.75 A) Protective functions: Reverse-polarity protection, overload protection
Max. baud rate	1 Mbit/s
Bus termination	120 Ω

RS485 interface specification

RS485 bus	
Voltage output	24 V (0.75 A) Protective functions: Reverse-polarity protection, over-load protection
Max. baud rate	2.5 Mbit/s
Bus termination	120 Ω

Backplane bus specification

Backplane bus	
Voltage on the backplane bus	Voltage of the power supply unit minus 0.5 V Switchable in the signals of the master gateway Protective functions: Overload protection
Communication	Modbus RTU
Max. number of additional modules on one master gateway	3

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