



SIM200-OP0G12200

SIM200

EDGE COMPUTING DEVICES

SICK
Sensor Intelligence.



Ordering information

Type	part no.
SIM200-0P0G12200	1103656

Other models and accessories → www.sick.com/SIM200

Detailed technical data

Features

Product category	Programmable devices
Task	Data recording, evaluation, and archiving
Supported products	IO-Link sensors Sensors with digital inputs and outputs
Processor	ARM Cortex M7 + NetX51
Random Access Memory	512 MB (netX51)
Flash memory	4 GB
Application development kit	SICK AppStudio Can be programmed within the SICK AppSpace environment
Toolkit	SICK algorithm API

Mechanics/electronics

Connections		
	Power	1 (M12, 4-pin male connector, A-coded)
	S1-S4, IO-Link Master	4 (M12, 5-pin female connector, A-coded)
	Ethernet	2 (M12, 4-pin female connector, D-coded)
	CONFIG	1 (M8, 4-pin socket)
Supply voltage		(10 V DC, 18 V DC ... 30 V DC, 30 V DC) ^{1) 2)}
Operating current		Must be limited by external power supply unit to max. 4 A
Power consumption		≤ 4.2 W, without connected sensors
Power output		≤ 72 W, total, all connections
Output current		
	S1-S4, pin 4	≤ 200 mA ³⁾
	S1-S4, pin 1	≤ 500 mA

¹⁾ Without IO-Link.

²⁾ With IO-Link.

³⁾ Pin 4 configured as digital output. The maximum output current does not depend on the voltage supply at pin 1 of S1-S4.

Enclosure rating	IP67
Protection class	III
Housing material	Zinc
Housing color	Black
Weight	520 g
Dimensions (L x W x H)	213.9 mm x 57 mm x 38.3 mm

¹⁾ Without IO-Link.

²⁾ With IO-Link.

³⁾ Pin 4 configured as digital output. The maximum output current does not depend on the voltage supply at pin 1 of S1-S4.

Interfaces

Ethernet		✓ , TCP/IP
	Remark	With switch
	Function	IO-Link Master
	Data transmission rate	≤ 230 kBaud, 2 x 10/100 Mbit/s
IO-Link		✓ , IO-Link V1.1
	Remark	Port Class: A
	Function	Configuration
	Data transmission rate	≤ 230 kBaud
USB		✓
	Remark	Via CONFIG port
	Function	Configuration
Operator interfaces		Web server (GUI), SICK AppStudio (programming), SICK AppManager (app installation, firmware update)
Digital inputs/outputs		
	S1-S4	In each case 1 input, in each case 1 input/output (can be configured)

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 61000-6-4
Shock load	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Ambient operating temperature	-40 °C ... +55 °C ¹⁾
Ambient temperature, storage	-40 °C ... +75 °C ¹⁾

¹⁾ Permissible relative humidity: 0% ... 90% (non-condensing).

Certificates

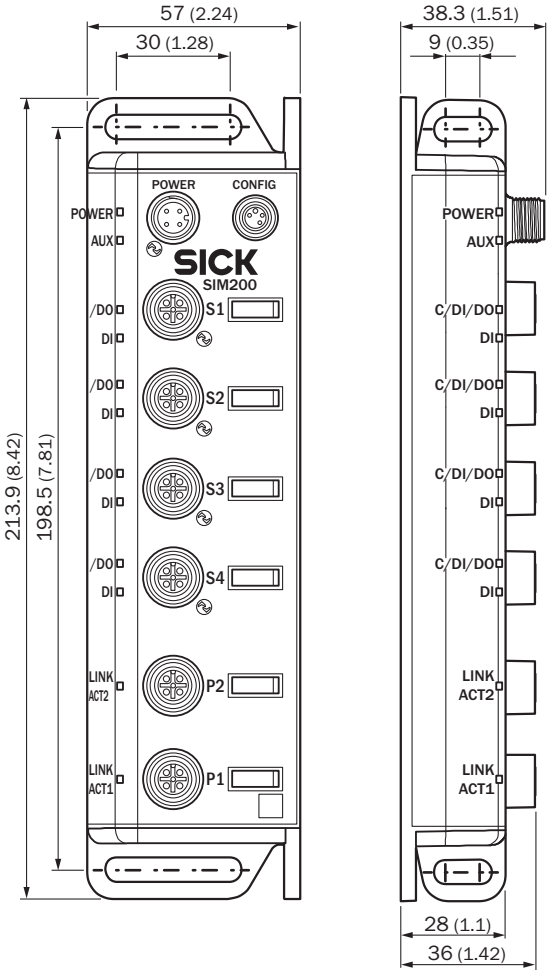
EU declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓

Classifications

ECLASS 5.0	27242208
ECLASS 5.1.4	27242608
ECLASS 6.0	27242608
ECLASS 6.2	27242608

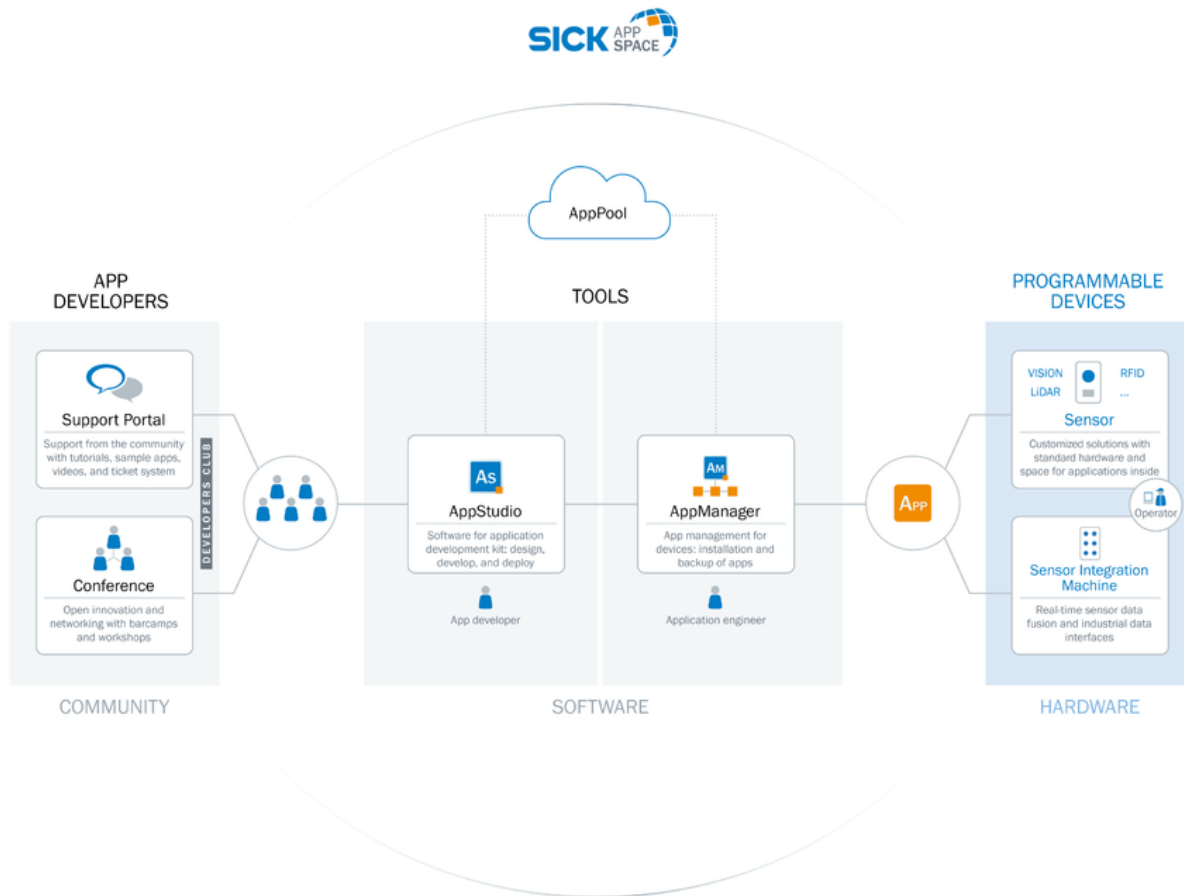
ECLASS 7.0	27242608
ECLASS 8.0	27242608
ECLASS 8.1	27242608
ECLASS 9.0	27242608
ECLASS 10.0	27242608
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604
ETIM 8.0	EC001604
UNSPSC 16.0901	EC001604

Dimensional drawing



Dimensions in mm (inch)

Overview SICK AppSpace



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com