



SIM2500-2AX1G10 Nova picomidi QI

SIM2x00

EDGE COMPUTING DEVICES

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|----------------------------------|----------|
| SIM2500-2AX1G10 Nova picomidi QI | 1135070 |

Other models and accessories → www.sick.com/SIM2x00



Detailed technical data

Features

| | |
|---------------------------|---|
| Technology | 2D snapshot |
| Product category | Configurable, programmable |
| Supported products | picoCam2 midiCam2 |
| SensorApp | Nova pico/midiCam2 |
| License included | Quality Inspection License |
| Expansion options | The SICK Nova Tool plug-in enables customer-specific or new tools to be added. Development and customization of the tools is supported by SICK AppSpace and SICK AppStudio. |
| License type | The software is provided as a device license. A license is bound to a specific hardware ID. |
| License period | The license is issued without a time limit. |
| Language | English, German, French, Italian, Spanish, Japanese, Korean, Chinese |
| Documentation | Operating instructions |
| Processor | 8-core ARM Cortex-A72 CPU with NEON accelerator FPGA co-processor for image processing (object finder) |
| Toolkit | Image processing library for customer development SICK Nova |

Mechanics/electronics

| | | |
|--------------------------|--|--|
| Connections | I/O, Power, SERIAL, INC, Fieldbus, CAN, SENSOR S1-S6, Ethernet with PoE, USB | 1 x M12, 8-pin female connector, A-coded, 1 x M12, 4-pin male connector, T-coded, 1 x M12, 8-pin female connector, A-coded, 1 x M12, 8-pin female connector, A-coded, 2 x M12, 4-pin female connector, D-coded, 1 x M12, 5-pin female connector, A-coded, M12, 5-pin female connector, A-coded, 4 x M12, 8-pin female connector, X-coded, 1 x Micro-B, Under the servicing panel |
| Supply voltage | | 24 V DC, ± 10 % |
| Power consumption | | Typ. 45 W |
| Power output | | 140 W, total, all connections |
| Output current | | |
| | SENSOR S1-S4 | ≤ 1 A (on power supply pin) |
| | SENSOR S5-S6 | ≤ 2.5 A (on power supply pin) |
| | SENSOR S5-S6 | ≤ 3.2 A (≤ 10 kHz, rise time/fall time/delay < 10µs when power gate-API used) |
| | CAN | ≤ 1 A (on power supply pin) |

| | | |
|-------------------------------|--------|--------------------------------|
| | SERIAL | ≤ 0.5 A (on power supply pin) |
| | INC | ≤ 500 mA (on power supply pin) |
| | I/O | On power supply pin |
| Enclosure rating | | IP65 |
| Electrical safety | | EN 61010 |
| Housing color | | Light blue (RAL 5012) |
| Weight | | 1,995 g |
| Dimensions (L x W x H) | | 176 mm x 83 mm x 196 mm |

Interfaces

| | | |
|-------------------------------|------------------------------|---|
| Ethernet | | ✓ (4) , TCP/IP, FTP, OPC UA, MQTT |
| | Type of fieldbus integration | GigE machine vision/GenICAM |
| | Remark | Fieldbus ports, in preparation |
| | Function | Configuration, image transmission, Data output, software updates |
| | Data transmission rate | 10/100/1,000/2,500 Mbit/s |
| PROFINET | | ✓ (2) |
| | Remark | Fieldbus-Ports |
| | Function | Dual port Ethernet-based fieldbus |
| | Data transmission rate | 10/100 MBit/s |
| EtherNet/IP™ | | ✓ (2) |
| | Remark | Fieldbus ports, in preparation |
| | Function | Dual port Ethernet-based fieldbus |
| | Data transmission rate | 10/100 MBit/s |
| Memory card(s) | | Industry-grade microSD memory card (flash card), max. 32 GB, optional |
| Digital inputs/outputs | | |
| | I/O | 2 opto-decoupled inputs (Max. frequency: 30 kHz) |
| | I/O | 2 inputs/outputs (can be configured) (Max. frequency: 30 kHz) |
| | SENSOR S1-S4 | 1 input each (Max. frequency: 30 kHz) |
| | SENSOR S1-S4 | 1 input/output each (can be configured) (Max. frequency: 30 kHz) |
| | SENSOR S5 | 1 input (Max. frequency: 10 kHz) |
| | SENSOR S5 | 2 inputs/outputs (can be configured) (Max. frequency: 30 kHz) |
| Expansion options | | The SICK Nova Tool plug-in enables customer-specific or new tools to be added. Development and customization of the tools is supported by SICK AppSpace and SICK AppStudio. |

Ambient data

| | |
|--|---|
| Electromagnetic compatibility (EMC) | IEC 61000-6-2:2016 EN IEC 61000-6-2:2019 IEC 61000-6-3:2020 |
| Shock load | IEC 60068-2-27:2008 |
| Ambient operating temperature | 0 °C ... +50 °C ^{1) 2)} |

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

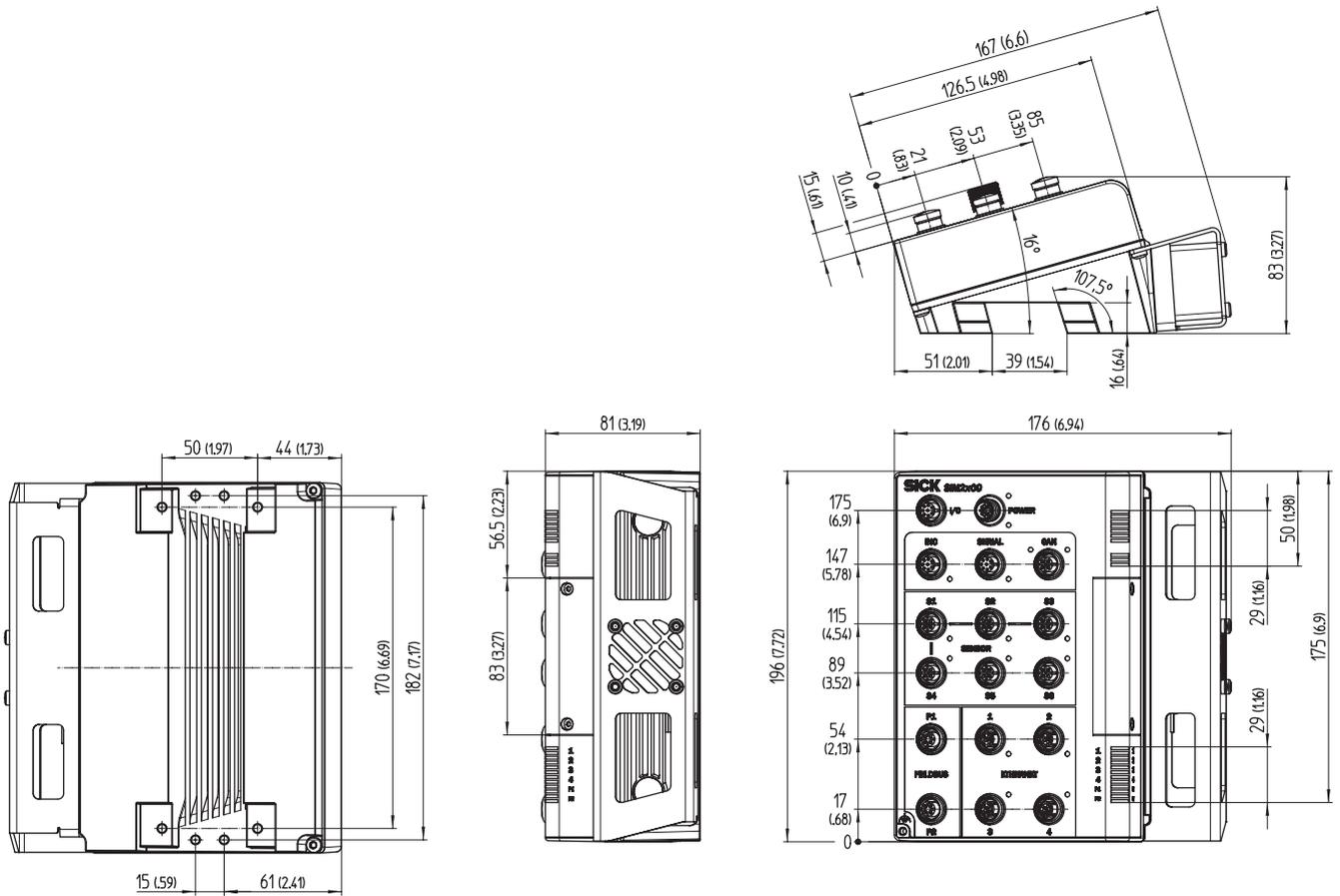
²⁾ While taking account of the mounting requirements described, see operating instructions. In the event of overtemperature, the device protects itself by resetting and then restarting.

Certificates

| | |
|-------------------------------------|---|
| EU declaration of conformity | ✓ |
|-------------------------------------|---|

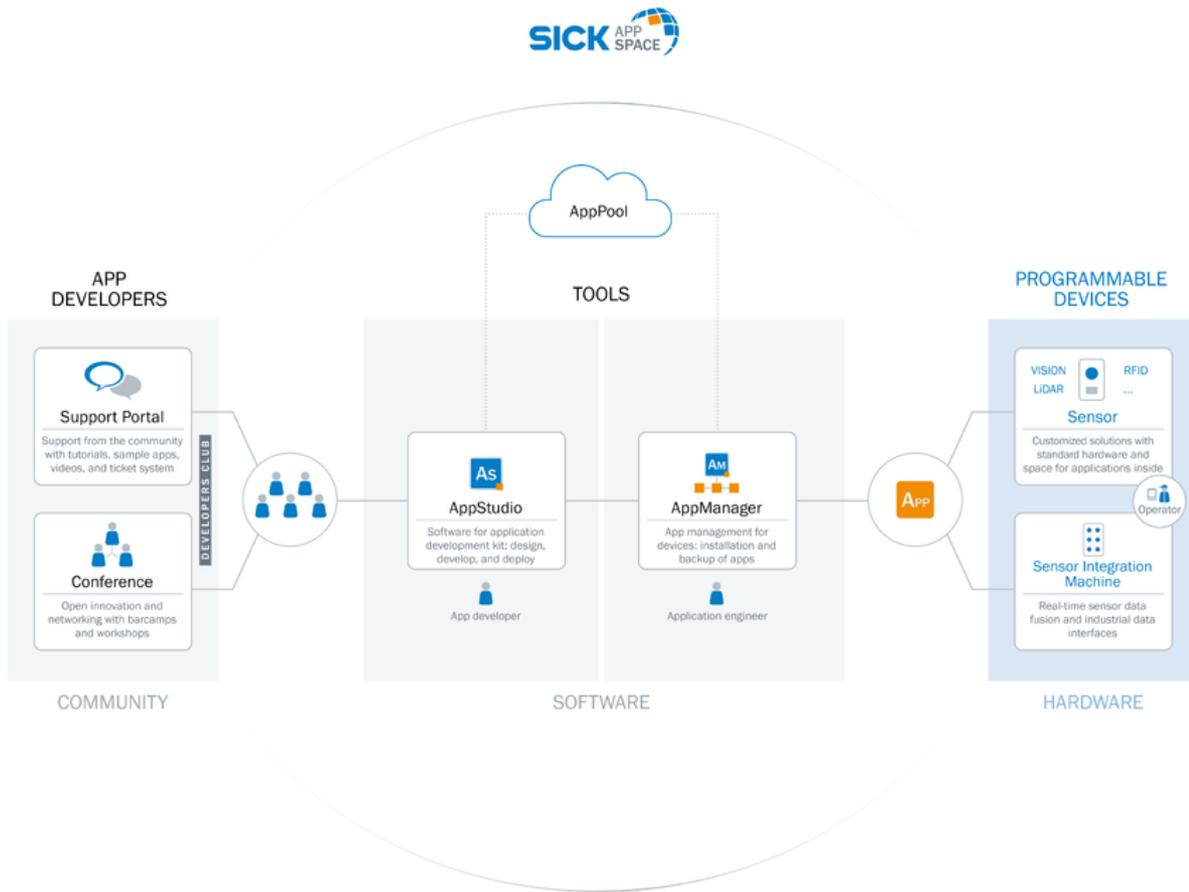
| | |
|---------------------------------------|---|
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| China RoHS | ✓ |

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