

SICK AppEngine

Make your devices ready for SICK AppSpace

SICK
Sensor Intelligence.

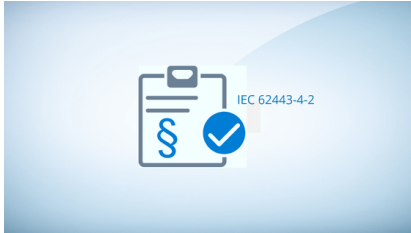
Advantages

Countless functions for safe and efficient sensor applications

SICK AppEngine is a software that helps to meet the challenges of cybersecurity with numerous security functions. As an application developer, secure your SensorApps with read and copy protection. Encrypted communication protects the connectivity of your devices and systems, and regular updates of the SICK AppEngine keep your device up to date at all times. We follow the industry standard IEC 62443 for this purpose.



HTTPS-encrypted communication via MQTT or OPC UA protect the connectivity of your devices.



Our security measures are based on industry standard IEC 62443 and the BSI (German Federal Office for Information Security).



Regular security updates from SICK AppEngine keep your device up-to-date and secure at all times.

Unlimited choice of programmable devices for SICK AppSpace

SICK AppEngine is the uniform software basis for all devices in the SICK AppSpace eco-system. Whether pre-installed on all SICK AppSpace devices, optionally on integration and gateway systems from SICK, or for customer-specific devices, with the SICK AppEngine software product, there are no limits on the choice of suitable hardware for your application.

Possible applications of SICK AppEngine



As the basis of all SICK AppSpace devices, SICK AppEngine is continuously being improved and expanded. SICK AppSpace



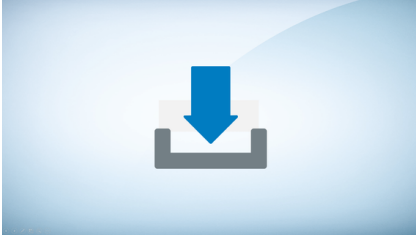
SICK AppEngine can be used as an optional software product on integration and gateway systems from SICK.



SICK AppEngine can be installed on customer-specific hardware and upgrades it to a SICK AppSpace device.

Quick and simple installation

The following three steps must be followed to use the SICK AppEngine software product on one of the supported devices:

**Download installer**

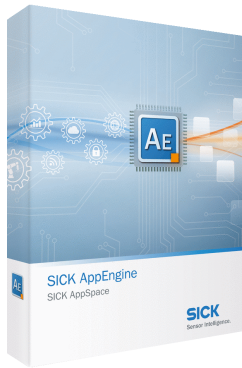
The current installer of the respective SICK AppEngine variant is available in the download area.

**Order license**

A license can be ordered using the shopping cart or from your local SICK representative.

**Initial steps**

Additional information on installation and activation can be found on the SICK SupportPortal.



Technical data overview

Language	English
Supported products	Raspberry Pi Other devices on request Telematic Data Collector TDC-E Data Integration Machine DIMA500 (depending on type)
Supported browsers	≥ Chrome 60 (recommended) ≥ Edge 12 ≥ Internet Explorer 11 ≥ Firefox 50 ≥ Safari 11
Description	Software license for the installation of SICK AppEngine The SICK AppEngine software product integrates devices into the SICK AppSpace eco-system and makes them programmable devices on which SensorApps can be run. Software license for the installation of SICK AppEngine on the TDC-E. (depending on type)
Operating system	Linux Windows 10 (64 bit) Linux Ubuntu (64 bit) (depending on type)

Product description

The SICK AppEngine software product integrates devices such as industrial PCs or controls into the SICK AppSpace eco-system and makes them programmable. SICK AppEngine therefore extends the portfolio of programmable devices on which SICK AppSpace can be used. Using the eco-system, sensor applications are implemented efficiently based on individual SensorApps and run on the SICK AppEngine, regardless of the area of application and sensor technology. The SICK AppEngine contains a collection of powerful software libraries for this purpose and provides application developers with countless functions using a uniform API structure. Sensor and data applications can be quickly and cost-effective solved using these functions.

At a glance

- Countless functions with over 3,000 APIs for sensor data processing, sensor communication and integration
- Countless security features
- REST support for all APIs
- Web-based user interface on integrated web server
- Seamless integration into the SICK AppSpace eco-system
- Availability for other devices on request

Your benefits

- SICK AppEngine extends the portfolio of programmable devices and offers new application possibilities for SICK AppSpace
- Quick and easy programming of SensorApps based on countless APIs which are ready to use right away
- Low-cost development of sensor applications thanks to comprehensive SICK AppSpace toolchains (e.g. SICK AppStudio, SICK AppManager)
- Customized visualization of sensor data on flexible web-based user interfaces
- Low development effort due to reusable SensorApps and their world-wide availability via SICK AppPool

Fields of application

- Acquisition and processing of sensor data in industrial PCs and controls
- Analysis and visualization of sensor data in industrial IoT applications
- Vertical integration of data into higher-level systems or cloud services in the spirit of Industry 4.0

Ordering information

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

Supported products	Type	Part no.
Data Integration Machine DIMA500	SICK AppEngine (x64)	1613796
	SICK AppEngine (x64) 90-Days Trial	On request
Raspberry Pi, Other devices on request	SICK AppEngine (ARMv8)	1616152
Telematic Data Collector TDC-E	SICK AppEngine (TDC-E)	1615804

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