KVASER
Advancing connectivity

Kvaser Edge WL400S

Learn more about this product

Secure, rugged, and ready for edge computing

The Kvaser Edge is a secure, rugged ARM-based Linux computer tailored for demanding real-time data acquisition, edge analytics and seamless cloud integration, all within a compact form factor.

Beyond its robust hardware, the Kvaser Edge offers flexibility through our containerized software architecture, Kvaser OS (KEOS) ensures secure isolation. You can choose your Linux distribution, use apps for data processing, and retain full control of your data and intellectual property. This makes Kvaser Edge ideal for proof-of-concept testing or scalable production.

Warranty
2-year warranty. See our general conditions and policies for details.

Support
Free support for all products by contacting support@kvaser.com

EAN
73-30130-01688-0

Ref. No. 98401-1 v. 2.2

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Major Features

- Designed for effortless execution of data logging and processing missions at the edge.
- Powerful embedded ARM-based Linux computer with "Secure Element", NXP SE051C2 faciliating CRA compliance with target software applications.
- Four fully featured, time-synchronized, individually galvanically isolated CAN-FD channels utilizing Kvaser CAN-IP implemented in FPGA.
- Wi-Fi 6 and Gigabit Ethernet Interfaces enables remote connectivity.
- Ruggedized housing with IP67 ingress protection.
- Wired intefaces for durable flexible connections.
- Integrated positioning and inertial measurement units.
- Galvanically isolated GPIO intefaces enabling trigger-based logging.
- Separate galvanically isolated power supply with support of activation via ignition signal.
- High-capacity battery ensures safe shutdown and supports intermediate operation.
- Multi-GNSS (Global Navigation Satellite System) support (GPS, Galileo, GLONASS) for enhanced positioning accuracy and reliability.

Support

Documentation and Kvaser SDK can be downloaded for free at www.kvaser.com/downloads. Drivers are already included in the Kvaser Edge base system.

Kvaser SDK is a free resource that includes everything you need to develop software for the Kvaser CAN interfaces. Includes full documentation and many program samples, written in C, C++, C#, Delphi, Visual Basic, Python and t script language.

The Kvaser EDGE base system can be pre-configured with customer system image, setup of containers, installation of Kvaser SDK and customer-selected drivers to fit potential needs.

Kvaser CAN hardware is built around the same common software API. Applications developed using one device type will run without modification on other device types.

Technical Data

Battery	Lithium-ion 18650
Bluetooth	Supporting mode BLE 5.3
CAN	4xCAN FD SIC Galvanic Isolated, HD26
CAN FD Bit Rate	Up to 8 Mbit/s
Ethernet	Gigabit Ethernet 1000 BaseT, RJ45 Socket
GPIO	2x Digital Input 1x Digital Output
Housing	Aluminum housing with plastic protective caps, approx. 200x110x58 mm
IMU Acceleration sensitivity Angular rate sensitivity	6-axis (accelerometer + gyroscope) +-2g range 0.061 mg/LSB (Typical) +-125 dps range 4.375 mdps/LSB (Typical)
Ingress Protection: Housing	IP67
Operating Temperature	-40 to 50 °C ambient (If handheld use is not a requirement, the device can operate at ambient temperatures up to +70 °C.)
Operating System	Linux-Kernel
Positioning accuracy (CEP) 1.5 m	Multi-GNSS (GPS, Galileo, GLONASS) with external active antenna via FAKRA connector (Key Code-C)
Power activation	Galvanic Isolated
Power consumption	Up to 15 W in active mode Standby mode, down to 200 mW
Power supply	9-36 VDC, Galvanic Isolated
Processor	ARM, Quad core Cortex®-A53 up to 1.6 GHz
RAM	2 GB
Regulatory Compliance	CE, FCC
Status display	9 LEDs
Storage	256 GB eMMC (embedded MultiMediaCard)
USB	USB 3.1 Host, Type-C (PD 400 mA)
Weight	850 g, cables excluded
Wi-Fi	Wi-Fi 6 IEEE 802.11ax, Dual Band, 2x2 MIMO (5GHz), Antenna Diversity, Integrated antennas

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