



KVASER ETHERCAN LIGHT HS

EAN 73-30130-00713-0

The Kvaser Ethercan Light HS is a CAN-to-Ethernet interface that facilitates the adoption of the Internet of Things (IoT) concept within modern manufacturing environments by enabling data from any CAN product or system to be accessed over the Internet, via an Ethernet-equipped PC.

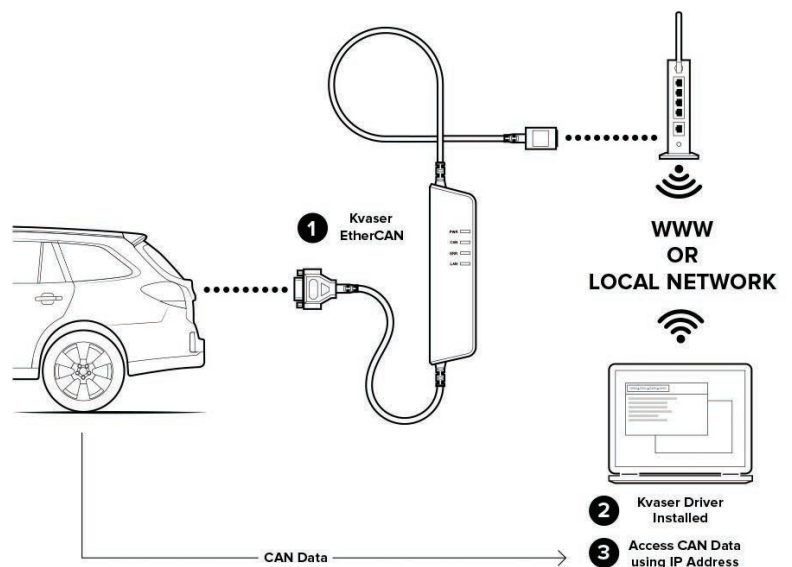
Ethercan makes it easy to implement the Internet of Things (IoT) concept by enabling data from any CAN product or system to be sent over a corporate network or the Cloud, using the standard Kvaser API. The Kvaser Ethercan device can be configured with a static IP and comes with an Ethercan Factory Reset Device to reset the configuration to factory default DHCP settings at the push of a button.

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Major Features

- High-speed CAN connection (compliant with ISO 11898-2), up to 1 Mbit/s.
- Ethernet connection has auto-MDIX, so it automatically detects and adjusts for the Ethernet cable being used.
- Built-in Power over Ethernet (PoE) - receives data and power over the Ethernet cable.
- Small, lightweight plastic housing with galvanic isolation.
- Fully compatible with J1939, CANopen, NMEA 2000R and DeviceNet.
- Includes Ethercan Factory Reset Device. This device provides the ability to reset the Ethercan's IP address to factory defaults at the push of a button.



Technical Data

| | |
|-----------------------------|----------------------------|
| Bit Rate | 40-1000 kbps |
| Temp Range | -20 - 70 °C |
| Messages Per Second Receive | 8000 mps |
| Messages Per Second Sending | 8000 mps |
| Weight | 100 g |
| Length | 165 mm |
| Height | 17 mm |
| Channels | 1 |
| Certificates | CE, RoHS |
| Interfaces | Ethernet RJ45 |
| OS | Windows 10, 8, 7 and Vista |
| Buffers | On Board Buffer |
| Galvanic Isolation | Yes |
| Error Frame Generation | No |
| Error Counters Reading | No |
| Silent Mode | No |
| Sound | No |

WARRANTY

2-Year Warranty. See our General Conditions and Policies for details.

SUPPORT

Free Technical Support on all products available by contacting support@kvaser.com

SOFTWARE

Documentation, software and drivers can be downloaded for free at:

www.kvaser.com/downloads

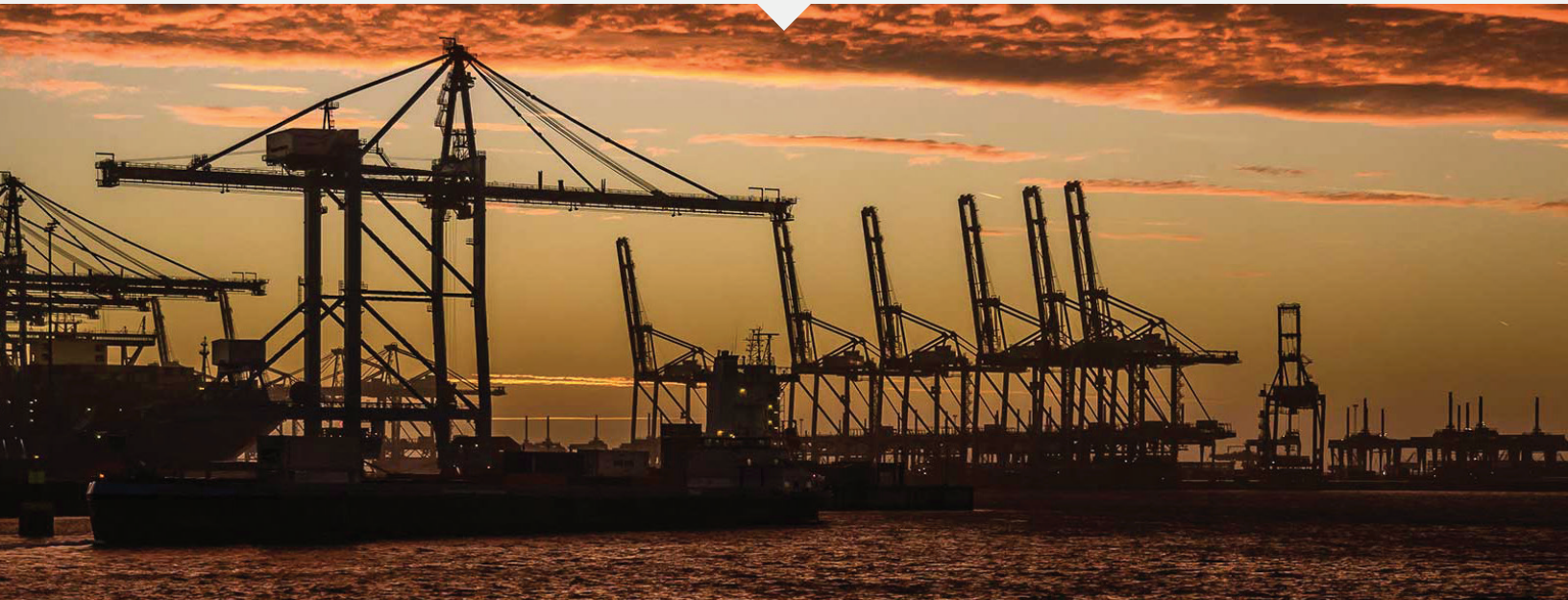
Kvaser CANlib SDK is a free resource that includes everything you need to develop software for the Kvaser CAN interfaces. Includes full documentation and many program samples, written in C, C++, C#, Delphi, Java, Python, and Visual Basic.

All Kvaser CAN interface boards share a common software API. Programs written for one interface type will run without modifications on the other interface types!

J2534 Application Programming Interface available.

RP1210A Application Programming Interface available.

Online documentation in Windows HTML-Help and Adobe Acrobat format.



Ethercan for Container Port Crane Monitoring

Kvaser's latest case study outlines the use of the Ethercan Light HS, CAN to Ethernet gateway, for container port crane monitoring.

Background

In today's shipping ports, state-of-the-art cranes are used for container tracking and movement. Because of the complex nature of the port and the time sensitivity of many shipments, efficiency is a necessity at all levels. Crane operators need a system in which crane health, such as tire pressure, fuel consumption and crane stability, can be reliably checked for quick repairs. The use of CAN for monitoring machine health brings this efficiency to modern crane maintenance.

Problem

Datamatics Group, creators of the Neptuno TOS, a telemetry system that provides real-time data through CAN, propriety sensors, cameras and positioning information on port operations, reached out to Kvaser for suggestions on a reliable method of data transfer in these rugged, and sometimes, unpredictable conditions.

Kvaser's Solution

The Ethercan Light HS. This CAN to Ethernet gateway combines the reliability of Ethernet data transmission, despite small connectivity losses due to dust and vibration, with the CAN communications protocol used by port cranes. This solution has allowed for real-time, reliable CAN communication between the cranes and the Neptuno TOS.



Read more about Kvaser's partnership with Data Job S.r.l. in supplying Datamatics Group with the solution to its port crane monitoring needs [here](#).