The independent vehicle data and CANbus specialist

Squarell offers reliable vehicle data solutions and services to take your telematics and fleet management system to a completely new level.

We are an independent worldwide company headquartered in the Netherlands with international presence in the UK, USA and Latin America. Our team consists of well-qualified account managers and technical support engineers.

We have vast experience in extracting and processing data into standardised information. With this data, you can compare and analyse your entire fleet, brand and vehicle type independent. Our products are resistant to harsh environments, technically reliable and robust. We have developed a versatile knowledge base of data gathered throughout the last decades. With this knowhow, we can compare and advise you in bespoke solutions. Using our data with a significant number of parameters enables you to act fast and efficiently by improving vehicle performance and driver’s behaviour, reduce fuel consumption and save on wear and tear.

> because you want to know

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Telematics Development Kit
FLEX
What is the FLEX?

FLEX is a multi-source vehicle data interface. It is part of the range of Squarell solutions for obtaining advanced vehicle data. With configurable functionality and extended connectivity, FLEX can be used in automotive applications like telematics, real-time monitoring, measurement, and interfacing.

The Squarell FLEX offers more than just streaming data. It processes the latter to provide it to you in order to accomplish advanced fleet management.

Your (data) journey starts here

Looking for a toolbox that can solve all the vehicle data challenges in a fleet? Squarell provides you with the right tools for facing these challenges, packed in the FLEX - Telematics Development Kit (TDK).

With the TDK, you are able to install the FLEX in vehicles equipped with CANbus. The FLEX is Squarell’s popular multi-source vehicle data interface that lets you process powerful vehicle data of any kind.

Knowing more about your fleet gives you a tremendous amount of advantages in different ways including vehicle safety, fuel saving, fleet costs reduction, and enhanced driver awareness. The TDK is the starter kit that includes all the high tech you need to create your own telematics vehicle data solution.

Our other solutions

DAP

The Squarell Driver Awareness Panel (DAP) is an intelligent in-vehicle display providing drivers the stimulation they need to drive smarter. It works on every vehicle with a Squarell interface and gives visual and audible notifications to the driver on several performance indicators without being intrusive. DAP actively monitors the vehicle CANbus and analyses the CANbus data. When required, the DAP signals good or bad driving behaviour during the trip. This method makes the driver aware of his/her driving style and lets him/her act accordingly.

Our Driver Awareness Panel hardware solution is now also available as software version to integrate in navigation systems and board computers.

Bluetooth

The Squarell Bluetooth dongle is a very easy to install Special Function Device (SFD). The Bluetooth 2.1 dongle can easily overtake the existing RS232 connection as the communication protocol stays the same. The vehicle data you used to receive via RS232 can now easily be sent to your smart phone or tablet. With Bluetooth in combination with our software DAP, it’s easy to create an app for driving style optimisation. Our Bluetooth device can be used in various automotive applications such as telematics, fleet management, real-time monitoring, measurement, and control/interfacing.

Event Data Recorder

The Event Data Recorder (EDR) logs vehicle data seconds before and after a possible event. An event does not necessarily have to be an accident; it could also be harsh braking or harsh deceleration.

Safety parameters

Many fleet owners look for details on the use of their vehicles. Safety is an important topic. Traffic is more hectic, time pressure is high, maintenance and insurance costs need to be controlled. Besides the Fleet Management System (FMS) data, Squarell offers a wide range of safety parameters.

DAP

Bluetooth

Event Data Recorder

Safety parameters
Kit contents

- 2 FLEX devices
- J1708 DatacliQ cable
- USB cable with a RS232 connector
- Combined cable with power supply
- 2 CANcliQ covers
- DatacliQ cover
- Software: iUpload, iCheck, Docklight, Expertview
- User manuals

Create your own reports based on the standardised Squarell vehicle data.

How does it connect?

Total solution

The FLEX Telematics Development Kit (TDK) provides the means to create powerful vehicle data solutions based on CAN bus, J1708 and K-line.

The FLEX TDK is a total solution to start using FLEX in trucks, vans and cars equipped with a CAN-bus.

With this kit you are able to:
- Make an on desk simulation for a driving truck
- Make CANbus scans from vehicles
- Load new software into the Squarell FLEX device
- Install the FLEX in a truck connected to your telematics solution
- Understand the Squarell output
- Upgrade your telematics solution to a higher level.

After using this kit set up, both Flex devices can be reused in any supported vehicle.

DAP
The Driver Awareness Panel is an intelligent in-vehicle display providing drivers the stimulation they need to drive smarter.

Data transmission
The boardcomputer reads the vehicle data from the FLEX and sends the vehicle data to a computer.

CANcliQ and DatacliQ
The Squarell CANcliQ reads vehicle signals from the CAN-bus without making a wire-to-wire connection and sends these signals to a Squarell FLEX. DatacliQ are available to retrieve data off a CAN-bus, J1708 bus and an ISO11992 bus.

Bluetooth
Our add-on Bluetooth device can inform a driver through a smartphone with actual information about the truck, trailer and cargo.
With iUpload, it is easy to update a device with the latest firmware and choose the correct Device Configuration File (DCF) for specific vehicle types. iUpload is a program that can be connected to our server. As such, all our customers can load the latest firmware and new DCF’s into their devices. iUpload can also be used to perform a single vehicle scan for verification purposes.

Squarell has created a tool to easily perform a quick check of the installation. The program “iCheck” can be installed on a laptop or PC and shows you the RS232 output of the device. When you see the most important parameters coming through, you are sure that you have installed the Squarell device with the correct CANbus, J1708 and/or K-line.
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