Extend your telematics solution with the best available vehicle data. The SOLID-J is one of the most versatile devices in our range of advanced vehicle data interfaces.
SOLID-J

SOLID-J is a multi-source vehicle data interface. It is part of the range of Squarell solutions for advanced vehicle data solutions. With configurable functionality and extended connectivity SOLID-J can be used in automotive applications like telematics, real-time monitoring, measurement and interfacing. The Squarell SOLID-J offers more than just streaming data. It processes the latter to provide it to you in order to accomplish advanced fleet management.

The benefits to you
- Easy integration with telematics and modems
- Output in CANbus (FMS/J1939) or RS232 (ASCII)
- One complete solution for your entire fleet
- Does not require the FMS Gateway to be activated by the dealer
- Can be used and reused in any vehicle*
- Analyse trip, vehicle and driver performance
- Drive better, reduce maintenance costs
- Save fuel, reduce CO₂

What is a Vehicle Data Interface
A Vehicle Data Interface is an electronics device to read data from a Vehicle Data Network and translate the data into either an RS232 (ASCII) or standardised CANbus protocol (FMS/J1939). You can read data from a brand specific vehicle network with this protective interface. With Squarell solutions you do not have to visit the truck dealer because our SOLID-J is ready to use.

SOLID-J connects

Vehicle data networks
SOLID-J is an advanced FMS interface with connectivity to all important vehicle data networks like: CANbus, J1939, J1708 serial and proprietary data networks.

Modems and telematics
The powerful SOLID-J processor manages the data and processes valuable information via unique Squarell algorithms. SOLID-J has outputs for FMS/J1939 or RS232/ASCII, which makes of SOLID-J a perfect universal interface for your telematics system and modem.

SOLID-J is safe

CANcliQ
The Squarell CANcliQ reads the vehicle signals without making a wire to wire connection. It uses proven technology and is the safest way to read vehicle data on the market.

NON intrusive connections
This eliminates liability matters, warranty issues or possible incorrect connections, and makes installation easy.

*for supported vehicles check our matrix at support.squarell.com
Parameters

**Speed & cruise control**
- Speed
- Odometer
- Cruise control active
- Over speeding
- Cruise time
- Harsh driving analysis

**Brake analysis**
- Brake switch
- Brake applications
- Harsh brake indicators

**Engine**
- RPM
- Engine hours
- Engine coolant temperature
- Actual engine torque
- Turbo pressure
- Idle analysis

**Fuel analysis**
- Total fuel used
- Fuel level
- Actual fuel consumption
- Fuel used during idle

**Clutch & gear**
- Clutch switch
- Clutch applications
- Over revving
- Kickdown switch

**Others**
- Service distance
- Axle weight
- Vehicle ID
- Driving time
- PTO

**Important:**
Not all parameters from the list may be available. This availability of the data depends on the brand, model, year and configuration of the vehicle.

**Connection**

The SOLID-J sends data by either an FMS/J1939 CANbus or RS232 output. This data contains the FMS standard parameters, J1939 parameters and also Squarell calculated parameters that can help you analyse and increase the vehicle performance, reduce CO₂ emissions and save fuel.
Comparison SOLID versions

<table>
<thead>
<tr>
<th>SOLID</th>
<th>SOLID-J</th>
<th>SOLID-K</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMS interface with CAN input</td>
<td>FMS interface with CAN input</td>
<td>FMS interface with CAN input</td>
</tr>
<tr>
<td>Length 89 mm, Width 63 mm, Height 27 mm/170 grams</td>
<td>J1708 input</td>
<td>K-line input</td>
</tr>
<tr>
<td>Optional RS232 output [ASCII] (male or female)</td>
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</tr>
<tr>
<td>3x Special Function Device ports</td>
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</tr>
</tbody>
</table>

Technical information

Dimensions/Weight
Length 89 mm, Width 63 mm, Height 27 mm/170 grams

Operating temperature
-40°C to 85°C

Power consumption
Active
Running, no external load, 30mA at 24V supply
CAN/RS232 drivers on, 110 mA at 24V supply

Voltage range
10-30V

LED
Three colour status indication LEDs

Connectors
1x 36-pole connector

Order information
There are two complete kits available

**SOLID-J CANcliQ kit (8836-02Q1)**
8036-02 SOLID-J
8636-Q1 SOLID CANcliQ cable (Power, CAN1, CANcliQ)

**SOLID-J Universal kit (8836-02W1)**
8036-02 SOLID-J
8636-W1 SOLID Universal cable (Power, CAN1, CAN2)

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ADVANCED ENGINEERING | CANBUS & VEHICLE DATA | CLIMATE CONTROL | INDUSTRIAL CONTROL