

## SOLID - technical info

<b>Dimensions/Weight</b>	Length 89 mm, Width 63 mm, Height 27 mm/170 grams
<b>Operating temperature</b>	-40°C to 85°C
<b>Environmental sealing</b>	IP44
<b>Power consumption Active</b>	Running, no external load, 30mA at 24V supply, CAN/RS232 drivers on, 110 mA at 24V supply
<b>Voltage range</b>	10-30V
<b>LED</b>	Three colour status indication LEDs
<b>Connector</b>	1 x 36-pole connector
<b>2x CAN bus</b>	1 x read only and 1 x read/write, 10-1000 kbit/sec, auto baud, J1939, Layer2
<b>1x J1708</b>	J1922/J1587 support
<b>1x RS232 (female)</b>	3 wire RS232, max 230kbaud, proprietary ASCII/Binary protocols HDLC/PPP, CCITT16, non-printable Escaping
<b>Special Function Device port</b>	<b>3 ports:</b> 2 ports to connect DatacliQ, DAP, trailer data system and other SFD devices



### SOLUTIONS

Advanced Tell-tales  
Environment  
Event Data Recorder  
Maintenance  
Safety  
Tachograph



### PRODUCTS

BE  
CANcliQ and DatacliQ  
Driver Awareness Panel  
Power Output Module  
REMOTE  
**SOLID**  
Trailer Box



### VEHICLES

Buses and Coaches  
Electric Vehicles  
First Response Vehicles  
Trailers  
Trucks



### INFORMATION

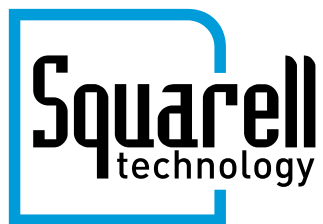
Wired Networks  
Wireless Networks



Squarell Technology  
Delfweg 48 | 2211 VN Noordwijkerhout | The Netherlands  
T +31 (0)252 42 03 11 | E sales@squarell.com | squarell.com



20231115\_SOLID\_EK



reliable vehicle data



**SOLID**  
Vehicle Data Interface

## Data Interface

The SOLID is an electronic device that can be connected to multiple communication networks in a vehicle and transmits the read and processed data to a modem for transmission to a server. In combination with a Special Function Device (SFD) Bluetooth output is also possible.

### SOLID

The SOLID is a data collector with a 36-pin automotive connector.

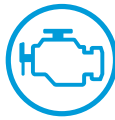


## Common Parameters\*



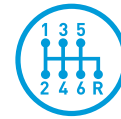
### Speed & cruise control

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



### Engine

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



### Clutch & gear

- Clutch switch
- Clutch applications
- Over revving
- Kickdown switch



### Brake analysis

- Brake switch
- Brake applications
- Harsh brake indicators



### Fuel analysis

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



### 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.  
**Parameters on request possible.**

## Connection

