Squarell technology

technical 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

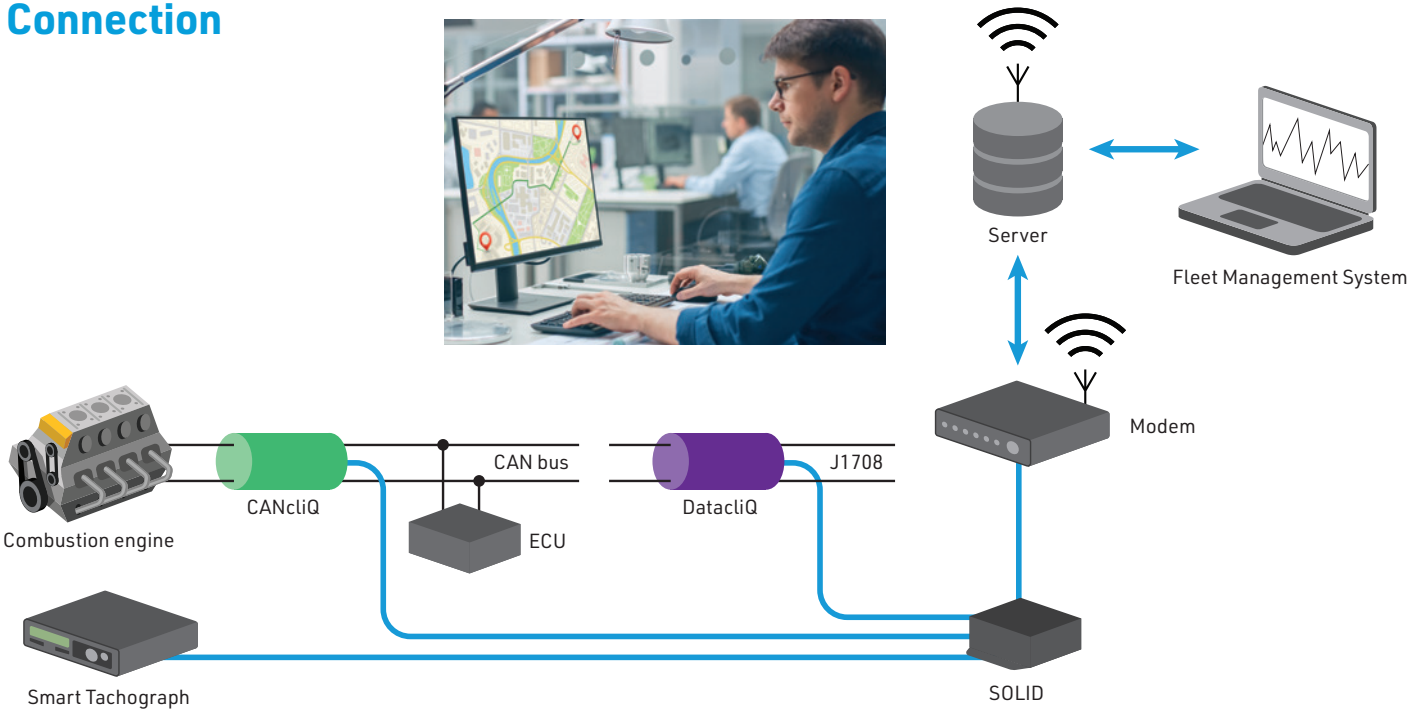
Brake analysis
- Brake switch
- Brake applications
- Harsh brake indicators

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



SOLID - technical info	
Dimensions/Weight	Length 89 mm, Width 63 mm, Heigth 27 mm, Weight 170 grams
Operating temperature	-40°C to 85°C
Environmental sealing	IP44
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
Connector	1 x 36-pole connector
2x CAN bus	1 x read only and 1 x read/write, 10-1000 kbit/sec, auto baud, J1939, Layer2
1x J1708	J1922/J1587 support
1x RS232 (female)	3 wire RS232, max 230kbaud, proprietary ASCII/Binary protocols HDLC/PPP, CCITT16, non-printable Escaping
Special Function Device port	**3 ports**: 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

CAN bus Networks
Wired Networks
Wireless Networks

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