telematiQs

[10] *connects you to vehicle data* [01]

- Device As A Service
- CLOUD
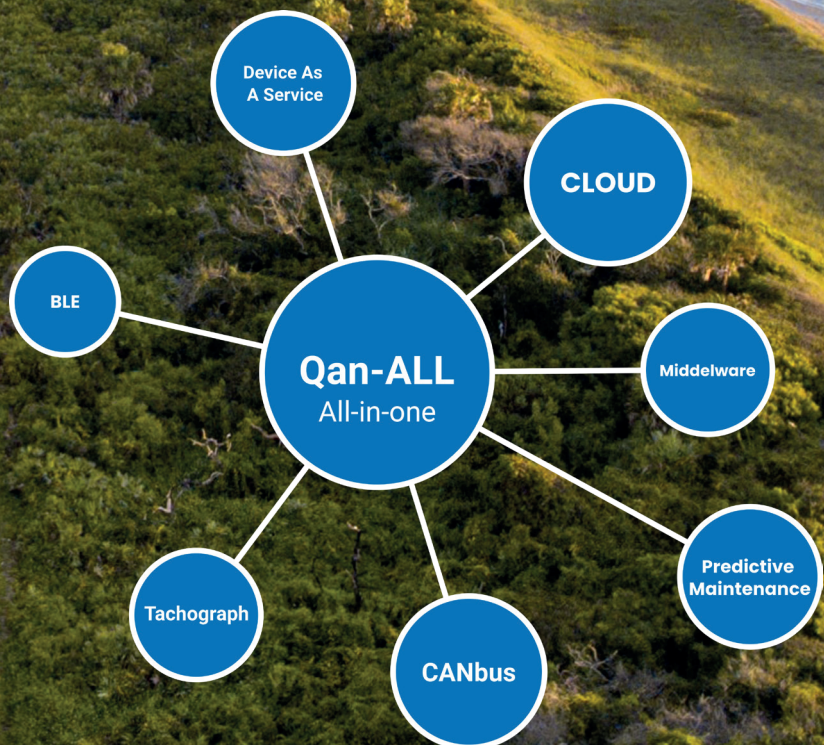- BLE
- **Qan-ALL** All-in-one
- Middelware
- Tachograph
- CANbus
- Predictive Maintenance

Why Qan-ALL?

The Qan-ALL is the most complete telematics solution on the market.

With the Qan-ALL you have, among other things, real-time insight into vehicle data, remote downloading of the tachograph and driver card, the possibility to monitor vehicles anytime, anywhere and more. Furthermore Qan-ALL offers these functionalities as a service. With this service we want to unburden you so that you can concentrate on what is really important: your customers!
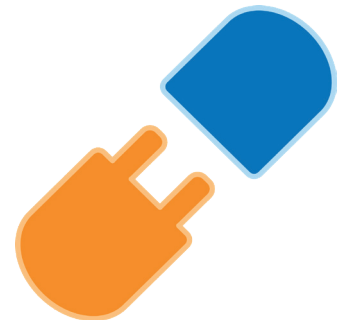
Modular system

A modular telematics system offers flexibility and adaptability for any situation. By easily integrating and configuring modules, it can provide exactly the information that is needed and when it is needed. This system can be seamlessly integrated into existing infrastructures. This makes the Qan-ALL a cost-effective solution that offers long-term benefits. For example, think of increasing efficiency, improving performance and reducing costs.

Integration

Integrating Qan-ALL into your telematics system has never been easier. Our solution is designed to be easy to install and configure. You therefore have quick direct access to valuable data. With Qan-ALL you gain insight into driving behaviour, vehicle performance and other sensors. And this is all in real time.

Device As A Service

With the "Device As A Service" service, you no longer have to worry about the technical details. We take care of international network communication, software updates, configuration tools and vehicle protocols and we also take care of company card authorization for tachograph downloads. And that is not all. With telematiQs you can focus on your business while we take care of the technology. We offer you a complete solution that saves you time and money, while giving you access to the latest features and capabilities.

Main features

- GGNS (GPS and GLONASS trip and location registration)
- Driver behaviour monitoring
- Contactlessly connected to vehicle information network
- Remote downloading of tachograph and driver card
- Integrated global communications LTE and 4G with 2G fallback
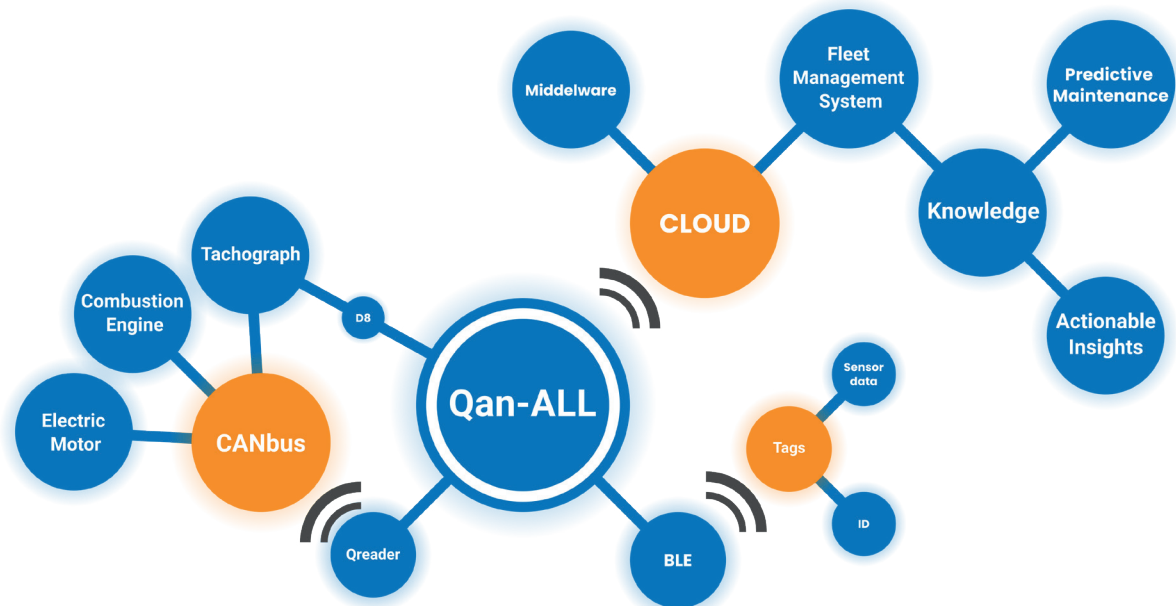- BLE IoT capabilities
- 4 CAN FD interfaces

Qan-ALL 4G
• Fleet management
• LTE, 4G communication
• Driver identification
• Behaviour (CANbus (FD) and G sensor)
• Tacho information and Remote download
• Vehicle maintenance information
• BLE module *(optional)*

Qan-HUB
• Behaviour (CANbus (FD) and G sensor)
• Vehicle information
• Vehicle maintenance information
• Data output via RS232 or CANbus
• Tacho information CANbus en D8
• BLE module *(optional)*

Fleet management

- Realtime Tracking
- Insight into trips, visits and working hours
- Driver identification (I-Button, Mifare, KeyPad, D8 etc.)
- Private/Business switch option
- Digital and Analoge inputs
- Event-driven protocol

Driver Behaviour analysis

- Realtime CANbus data to usable information
- Speed
- Mileage
- RPM
- Coasting
- Cruisecontrol
- Fuel and KWh usage
- Fuel and energy level
- Safety sensors
- Condition and service sensors

Remote tacho download

- Tacho information via D8 and CANbus
- Full service
- TelematiQs AuthServer (Companycard in server)
- Driver identification via drivercard
- Automated planning for mass memory and driver card download
- Insight into downloads and planning
- Push Integration for DDD files

Installation and maintanance

- Easy installation
- Configuration and installation test app for technician
- Maintenance portal for settings and configurations
- FOTA Firmware update and QTL (Qan-ALL Thing Library File)
- No physical connection required to read CANbus data through the Q-reader

Add-ons

- Qreader
- Qfeedback (drivers awareness panel)
- Multi installation cable sets
- Integration to external system via CAN or RS232
- Global communication profiles

[10] *connects you to vehicle data* [01]

Specifications:

Electronical characteristics

Electronical characteristics	
Supply voltage	9V to 60V
Running unloaded	~ 80mA (12v)
Running loaded (vehicle manufacture connector)	Allowed maximum load 120 mA (12V)

Mobile connectivity characteristics

Mobile connectivity characteristics	
Bands	850/900/1800/1900 MHz (Global)
Cat-M Bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B39
Network	LTE CAT-M 4G / 2G Fallback
SIM	KORE eSIM
Antenna	Internal multiband GSM antenna
Modem Certification	RoHS, RCM, REACH, CE RED, FCC, IC, GCF, CCC

GNSS characteristics

GNSS characteristics	
Technology	GPS and GLONASS
Antenna	Internal or External
Acquisition (normal)	Cold 30s (typ.), Warm 28s (typ.), Hot 1s(typ.)

CANbus characteristics

CANbus characteristics	
Ports	3x (object data) 1x (Tacho)
CANbus Speed	10 Kbits/sec to 8 Mbits/sec*
CANbus Protocol	CAN v2.0a, CAN v2.0b, CAN-FD

Onewire characteristics

Onewire characteristics	
Bus mode	Host
Bus signal type	Open Collector
Bus voltage	5 VDC (Internal pull-up)
Bus max current	1 mA @ 5V

Tacho D8 characteristics

Tacho D8 characteristics	
Bus signal type	Open Collector
Bus max voltage	12 VDC (no pull-up)
Bus max current	1,2 mA @ 12V

Input characteristics

Input characteristics	
Digital Input	1
Analog input	1
Output	3
Maximum Voltage	60 DC
ADC resolution	10 bits
Measure voltage	0V to 60VDC

Specifications:

RS232 characteristics (optional 3rd party)	
Ports	2
RS232 speed	9600 to 115200 bps, default 11500 bps
RS232 protocol	Data length 8, stop bit: 1, parity: none, no flow control
Protocol	telematiQs serial protocol

Environmental characteristics	
Operating Temperature	-25º C to 65º C
Storage Temperature	-40º C to 85º C
Humidity	Max. 90% at 40°C

Physical characteristics	
Dimensions Qan-ALL unit	Length 90mm, width 53 mm, height 25 mm

About telematiQs

At telematiQs we have over 15 years of experience in providing solutions for the automotive, maritime and rail sectors.

Our goal is to provide complete and optimized solutions for the real-time collection, processing and transmission of vehicle sensor data.

With advanced technologies such as GPS, IoT and AI, we provide valuable insights that help companies make informed decisions and improve efficiency, safety and profitability.

Our fleet management solutions, including remote diagnostics and predictive maintenance, provide real-time data on vehicle location, speed, behavior and health to proactively address issues.

With tailor-made solutions for every sector, we help companies work more efficiently and safely and improve their profitability.

Choose telematiQs as your partner for growth and offer your customers the most efficient and effective solutions with Qan-ALL.

Do you want to know more? Then contact us!

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