



OES/AM telematics

SCD20 – product platform

Vodafone
Power to you

Telematics technology has brought about substantial changes in the automotive world. Vodafone Automotive stands out as an early pioneer in this field. The company's rich and versatile range of products is the result of more than 10 years of experience and intense research and development activities in telematics.

SCD20 is the latest high-performance telematics platform designed for the AM and OES segments. Its compact design, with integrated GPS and GSM/GPRS antennas, and waterproof, robust housing, make it the ideal choice for aftermarket installers. It can be easily fitted inside the passenger compartment (behind the vehicle's windshield or rear window) or outside it (in a plastic bumper, etc.), wherever a clear view of the sky is ensured.

The platform is suitable for multiple applications in different areas, including theft management (anti-theft protection, stolen vehicle recovery), safety and emergency services (bCall, eCall, remote diagnostics), insurance risk management (driver's profiling, crash analysis), and fleet management.

Description

A telematics unit with embedded high-performance GPS and quad-band GSM/GPRS antennas. It can be used for multiple applications in the automotive market and is available in a number of different configurations.



Key features

- Compact design and small (114mm x 78mm x 29mm), waterproof housing.
- Embedded GPS and GSM/GPRS.
- External GPS antenna can be provided for vehicles with shielded windows.
- Integral short-range 2.4GHz radio frequency (RF) transceiver that enables communication with wireless add-on modules (e.g. automatic driver recognition card, crank inhibition relay, and alarm siren).
- Embedded accelerometer for circuit sleep-to-wake-up use, with optional external accelerometer and event recorder.
- Powerful backup battery provides supply and allows for circuit sleep-to-wake-up functionality in the event of sabotage of the vehicle's battery.

Benefits

- Can be fitted either inside or outside the passenger compartment, wherever there is a clear view of the sky.
- Conventional wiring to the vehicle's electrical system or CAN bus connection (different protocols).
- Full support for the installer; a programming tool (Data Linker) and a specific application (Canopus) allow installers to easily configure the unit for each vehicle. This is done using the make/model-specific application files that can be downloaded from the installers' section of the Vodafone Automotive website.
- Complies with and exceeds the requirements of the most stringent automotive and insurance industry standards (such as Thatcham/UK, SCM/The Netherlands, Incert/Belgium, Pimot/Poland).
- Can host a SIM card or a SIM chip.

Main functions

A highly sensitive GPS receiver allows the SCD20 to perform pinpoint tracking of the equipped vehicle.

Additionally, the device is designed to monitor and transmit the following alerts or notifications over the GSM/GPRS network:

Theft management:

- Main power tamper (cut or disconnection of vehicle's battery).
- Unauthorised movement (while vehicle ignition off).
- GSM jamming.
- GPS poor reception.
- External alarm trigger.
- Low backup battery.
- Unauthorised entry or exit of the vehicle into or from a pre-defined geographic area.

Safety and emergency:

- Vehicle crash.
- Exceeding of predefined maximum speed.
- Emergency call.
- Breakdown call.
- Low vehicle battery charge.

Other functions

- Built-in LED for self-diagnostics.
- Optional external accelerometer and event recorder for crash notification or analysis applications.
- Input for connection of an external alarm system.
- Integral short-range 2.4GHz RF transceiver. Allows for communication with wireless add-on modules (e.g. automatic driver recognition card, crank inhibition relay, and alarm siren).

Product data

Nominal operating voltage (VDC):	12 to 24
Operating voltage range (VDC):	9 to 32
Control unit operating temperature (°C):	-40 to +85
Current consumption rate (mA):	<ul style="list-style-type: none">• Fully operational (ignition ON - GPS and GSM/GPRS on) typical 300mA.• In sleep mode (ignition OFF – ready to respond to a possible wake-up event) < 4mA.
Control unit dimensions (mm):	114 x 78 x 29
Weight (g):	140

Homologations

ECE-R-10 equivalent to 2009/19/EC Automotive EMC Directive.

99/5/EC RTTE Directive.

Standard compliance

Thatcham Cat. 5, TQA/UK.

Incert T021C (tracking), T021D (after theft)/Belgium.

SCM TT03/The Netherlands.

Pimot Tracking Devices/Poland.

