

CARALGO Light+

Develop your connected vehicle solution

DEVICE FOR COLLECTING VEHICLE USAGE DATA

Using bluetooth & LoRa

- ✓ 6mm thickness, integrates seamlessly into the vehicle
- ✓ Plug & Go, Does not require an installer
- ✓ Automatic VIN retrieving & analysis
- ✓ Equipped with an accelerometer 3 axes
- ✓ Compatible with all vehicle brands,
- ✓ Multiplexed access to CAN network
- ✓ Dataset for retrieving vehicle usage data
- ✓ Wakeup on CAN, accelerometer & battery level
- ✓ OPEN API with BLE services, LoRa and MQTT
- ✓ Automatic detection of vehicle ignition ON/OFF
- ✓ Tow & Cannibalization detection



3 AUTOMOTIVE COMMUNICATION TECHNOLOGIES TO RECOVER DATA

- ✓ Car manufacturer DIAGNOSTIC
- ✓ Functionnal CAN FRAMES
- ✓ OBD DIAGNOSTIC

CAR MANUFACTURER DIAGNOSTIC

- Driving scoring
- Ecodriving scoring
- Average speed
- Trips data
- Crash detection
- Maintenance deadlines

VEHICLE USAGE DATA

- VIN, identification number
- Mileage
- Fuel level
- Speed & RPM
- Instant fuel consumption
- Average fuel consumption
- Carbon emission
- DTC, generic defects
- State of the battery



CarAlgo
E13 10R-05 15443



12V DC \approx 20mA
Designed in France
Made in the Netherlands



SDK available



smarto

Technology at the service of MOBILITY

www.caralgo.com

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TECHNICAL SPECIFICATIONS

Features	CARALGO BLE
Main processor	SoC 32-bit MCU, Arm Cortex-M0+, 512KB Flash, 64KB SRAM, 8KB EEPROM, 48MHz, automotive grade
Flash Memory	8 Mbytes
Accelerometer	3-Axis 2g-16g prog 12-bit
Bluetooth	2.4 GHz Bluetooth Low Energy (Bluetooth LE) version 5.0
Security	AES-128 Hardware Accelerator (AES-A)
PIN Switching	6-14, 3-8, 1-9
CAN Protocol supported	ISO 15765-4 11 bits, ISO 15765-4 29 bits CAN ISO14269 CAN UDS, SAE J1939
CAN Transceiver	NXP TJA1042, automotive grade
Operating temperature	-45° à +85°
Power Supply	5V-18V
Power consumption	15mA, 150µA in Sleep mode
Firmware update	Bluetooth OTA

BLUETOOTH SERVICES

Service	API Name
Device Informations Service	Manufacturing Name Hardware version Firmware version
OneShot Service	CAR VIN Reading CAR Battery Level Get/Set Timestamp Calibration Reading On/Off Led Status
DTC Service	DTC reading
DataSet Service	Set/Get/Clear DataSet Get Index Get CAN Activity
OTA	Bluetooth Low Energy OTAP

LORA SERVICE

Service	API Name
Vehicle Data transmission	At each Ignition On/Off transmission of dataset and Trip informations



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