

# VehicleTracker

UNIVERSAL GPS VEHICLE MONITORING UNIT  
FOR CARS, TRUCKS, CONSTRUCTION AND AGRICULTURAL MACHINERY

## USAGE AND CHARACTERISTICS

- » For tracking and monitoring of all types of vehicles
- » Tracking and monitoring at preselected time interval
- » Monitoring of temperature, humidity, quality of driving, tilting, air pressure
- » G-shock warning
- » Analogue input values and binary input state - on/off
- » Optionally back-up battery
- » Optionally RS232 / CAN bus
- » NB IoT and Cat M1 connectivity (optionally)
- » Bluetooth 5.0 long range fo external sensor (optionally)

## MEASURES AND TRANSMITS

- » GPS position
- » Speed and direction of movement
- » G-shock detection
- » Vibration histogram
- » Driver ID reading
- » Driver behaviour evaluation
- » Temperature, Altitude
- » Tilting - removal detection
- » Vehicle CAN values
- » RS232 - fuel level meter / CAN converters
- » Battery voltage and status



## TYPES AVAILABLE\*

TYPE	INTERFACES	GSM	RF INTERFACE	BATTERY
VT 110 210	RS232	2G	-	-
VT 110 211	RS232	2G	-	3 400 mAh
VT 110 010	RS232	2G / NB -IoT / LTE Cat M1	-	-
VT 112 210	RS232	2G	BT 5.0	-
VT 120 210	CAN	2G	-	-
VT 120 010	CAN	2G / NB -IoT / LTE Cat M1	-	-

\*for customized solutions please feel free to contact us

## BLUETOOTH 5.0 - ACCESSORIES

BS 010 390	BT 5.0 temperature sensor	BS 030 380	BT 5.0 access card
BS 020 130	BT 5.0 robust temperature sensor	BS 040 540	BT 5.0 door sensor
SA 050 001	BLE wireless fuel level sensor		

## OTHER ACCESSORIES

<b>ED 002 002</b>	External GPS antenna with 2m cable	<b>ED 060 615</b>	Switch type of journey
<b>ED 030 100</b>	Over-voltage protection	<b>ED 073 525</b>	Driver identification contactless card RFID
<b>ED 060 500</b>	Driver identification contact reader	<b>ED 073 526</b>	Driver identification contactless button RFID
<b>ED 060 550</b>	Driver identification contact ID button	<b>ED 073 531</b>	Driver identification contactless reader RFID
<b>ED 060 614</b>	Power switch relay for engine cut	<b>ED 075 804</b>	CAN bus converter

## TECHNICAL PARAMETERS

<b>GSM</b>	version 2G	850/900/1800/1900 MHz
	version 4G NB-IoT	B1@2100MHz, B3@1800MHz, B8@900MHz, B5@850MHz, B20@800MHz, B28@700 MHz
	version 4G LTE Cat M1 /NB-IoT/ EGPRS	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28/B39 - for Cat M1 only @ LTE 850/900/1800/1900 @EGPRS
	SIM	Nano Sim, Plug -in 1.8 V
	Types of communication	Calling, SMS, GPRS
	SMS	Alarm & Info SMS, SMS commands, requests, SMS configuration
	GPRS internet connectivity	Class 12/ static & dynamic IP VPN, UDP protocol / 128bit security encryption key / FW upgrade, configuration settings, on-line value reading, report memory reading, control
<b>GNSS</b>	GPS/Glonass*/Galileo*/BeiDou*	66 satellites
<b>ANTENNAS</b>	GPS, GSM	Internal, GPS connector for external antenna
<b>BACK-UP BATTERY*</b>	Type and capacity	Li-Ion 3400 mAh*
<b>POWER SUPPLY</b>	Voltage range	8 - 30 V
	Consumption	Standby mode < 10mA @12V, max current peak 300mA @ 12V
	USB-C	Charging* / report memory reading / configuration / FW upgrade
<b>INPUTS</b>	Binary / Analog IN 2x	Range 0-30V
	Binary IN 1x	Binary IN 1x, by GND activated
<b>OUTPUTS</b>	Binary OUT 2x	200 mA / max 30V
<b>INTERFACES</b>	1-Wire (Dallas bus)	Driver ID reader contact or contactless reader, temperature sensors
	RS 232**	TTL, for CAN convertors, can be used as Wiegand bus
	CAN bus**	J1939, FMS, VW Group protocol
<b>INTERNAL SENSORS</b>	3 dimensions G sensor	Movement detection / tilt detection / G-shock detection
	Other sensors	Temperature, humidity, air pressure
<b>RF INTERFACE*</b>	Bluetooth 5.0 long range	Range up to 250m in free space / 30m in buildings
<b>INTERNAL MEMORY</b>	Flash 512 kB	Capacity 5 000 events or GPS positions
<b>DIMENSIONS</b>	Plastic box	50 x 90 x 20 mm, Pitch between holes - 61 mm, Hole Dia. - 4 mm
<b>TEMPERATURE RANGE</b>	With internal battery*	-25 °C up to +55 °C
	Without battery	-25 °C up to +65 °C
<b>PROTECTION CLASS</b>	IP30	For indoor use only
<b>WEIGHT</b>	Without battery	120 g
<b>STANDARDS</b>	EMC	EN 50121-3-2 ed.4   EN 61000-6-4:2007+A1:2011   EN 55032:2015   EN 55024:2010
	LVD	EN 62368-1:2014+A11:2017

\* Optional \*\* Depending on product type



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