

# 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, quality of driving, tilting
- » 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
- » 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
<b>VT 110 210</b>	RS232	2G	-	-
<b>VT 110 211</b>	RS232	2G	-	3 400 mAh
<b>VT 110 010</b>	RS232	2G / NB -IoT / LTE Cat M1	-	-
<b>VT 112 210</b>	RS232	2G	BT 5.0	-
<b>VT 120 210</b>	CAN	2G	-	-
<b>VT 120 010</b>	CAN	2G / NB -IoT / LTE Cat M1	-	-

\*for customized solutions please feel free to contact us

## BLUETOOTH 5.0 - ACCESSORIES

<b>BS 010 390</b>	BT 5.0 temperature sensor	<b>BS 030 380</b>	BT 5.0 access card
<b>BS 020 130</b>	BT 5.0 robust temperature sensor	<b>BS 040 540</b>	BT 5.0 door sensor

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## 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
<b>RF INTERFACE*</b>	Bluetooth 5.0 long range	Range up to 100m 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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05/22