SatMARS

NAVIGATIONS- & KOMMUNIKATIONSSYSTEME

SatMOS®.box-enhanced

| 320 g

| 138 mm (L) × 66 mm (W) × 38 mm (H)

| In operation: -30°C ~ +80°C | Charging temperature: +10°C ~ +45°C

| Operating voltage: 8V to 32V DC, 2x18650 Li-Ion battery, 3,7V, 5800mAH

Features

- Ideal for locating trailers, tankers and flatbed trucks
- Rugged and waterproof IP67 rated housing suitable for use in harsh environments
- Global LTE Cat M1/NB2 with 2G fallback through unique antenna solution
- Large internal battery with 120 days standby time, supports two external power sources
- Supports BLE temperature and humidity sensor, BLE key fob and BLE padlock

The SatMOS®.box-enhanced was specially developed for use in heavy-duty vehicles such as trailers, tankers, refrigerated trucks and low loader trailers. The robust and waterproof design ensures that the device works reliably even in harsh environments, e.g. in fuel and chemical transports. It can operate for up to three months without an external power supply, making it ideal for locating trailers even when they are not connected.

The SatMOS®.box-enhanced also supports two power sources, e.g. when mounted in refrigerated trailers. The serial interface is designed for integration with refrigeration system protocols.

Advantages

- Optimal and gapless management of the vehicle fleet
- Wide range of wired and wireless add-on accessories
- Best price/performance ratio in its product class
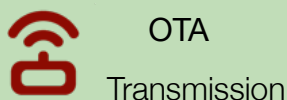
Locating in case of theft
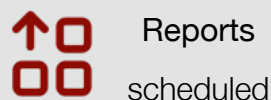
Fleet management

Low loader tracking

Tank truck monitoring
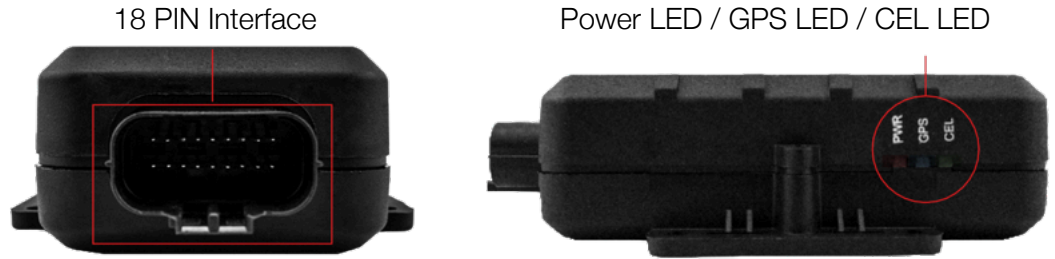
Multiple Interfaces

OTA Transmission

Reports scheduled

GEO Fence

SatMARS Navigations- u. Kommunikationssysteme GmbH

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Appearance

18 PIN Interface

Power LED / GPS LED / CEL LED

Interfaces

Digital input	1 positive trigger input for ignition detection
Analogue input	1 analogue input (0V-32V)
1-wire interface	Supports 1-wire temperature sensor (maximum 8 channels)
Current output	1 current output (3.3 V) for external devices
Digital inputs/outputs	4 negative trigger inputs for normal use or 4 open drain outputs 150mA max drive current
Serial port	1 RS232 port
Mobile/GNSS/BLE antenna	internal only
Connection	18-pin waterproof connector

Properties

Region	Network / operating band	GNSS Type	Positional Accuracy (CEP)	Certificate
Worldwide	**Cat M1:** LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 **Cat NB2:** LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 **EGPRS:** 850/900/1800/1900MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2 m	CE / FCC

Accessories

Mounting bracket

Iron bracket with screws
1 x mounting bracket
4 x serrated flange nuts
4 x flat head screws

Upgrade Kit

This kit contains a data cable and power plug. It is used for firmware upgrade configuration and debugging.

Additional accessories

Thanks to multiple connection options, the SatMOS®.box-enhanced can be completed by connecting various sensors, e.g. temperature and room humidity sensor, door sensor, or the addition of other accessories.

Simply contact us, we will be happy to advise you.