GPS
SYSTEMS

GPS SYSTEM FOR FLEET MANAGEMENT

GPS Systems Bulgaria offers adequate and innovative solutions for improving your business operations and management by being in control of your fleet of vehicles in real-time and from anywhere in the world. Our system provides all required tools for administrating and managing corporate fleets and drivers with the goal of significantly reducing costs while increasing productivity and efficiency of every business.

CLOUD GPS

GPS Systems is a highly secured cloud system engineered to provide real-time control and vehicle tracking. With live monitoring over your fleet, the system enables you to track location, speed, movement direction, routes, stayovers, stops along a route, mileage, moto hours, fuel tank level, fuel consumption analysis and graphs (identification of rapid fuel drops or other anomalies) and many more.

The software is able to track and record work schedule for every individual vehicle, including regulated and unregulated stops, prolonged stays and overnight stays. With the use of driver identification, the system profiles the driver and optimises costs while reducing road accidents. To correctly calculate personal, leased or other vehicle expenses and avoid undercharging, you have constant access to information regarding passed distance and engine moto hours, both in and out of work schedule.

OPPORTUNITIES

GPS Systems further gives the option to draw and define geographic zones, receive alerts when entering or leaving, rapid fuel level change, opening vehicle fuel caps in restricted areas or/and out of regulated zones, activation of external devices and sensors such as pumps, doors on cargo compartments and many more.

GPS Systems enables you to keep track of each vehicle's maintenance, insurance, change of consumables, repair works and others. You have the ability to add data concerning each of those items and set static objects on the maps such as offices, warehouses, shops, service centres and others. This way, the system automatically detects when a vehicle has passed through those specific locations as part of a route or a stayover.

GPS Systems is an innovative multiplatform WEB based CLOUD technology, compatible with all mobile devices, tablets, laptops and PC's. You have direct access to the system from any point in the world. By simply imputing your username and password, you have full control over your fleet and drivers in a matter of seconds and in real-time. The system holds seven different high-resolution maps, realistic view over the focused location and real-time traffic data. To increase the reliability and dependability of our system and guarantee 24/7 access we have implemented both Google Maps and Open Street.

GPS SYSTEM FOR FLEET MANAGEMENT

AUTOMATIC REPORTS

Reporting within the system is completely automated, and unlike other similar systems, we recognise the importance of accurate data in decision making thus provide you with reporting refresh rate of only a few seconds. For businesses having to comply to different government regulations, we can provide customised reporting including different attributes from zones, routes, vehicle services and drivers. All reports and analysis can be further automatically exported to pdf, xls, csv formats and automatically sent to your e-mail. Securing your data is always a top priority and as such, you can set different system access levels and store data for long periods of time. In case of connection loss, **GPS Matrix** device has the ability to store up to 20 000 events. With our flexible interface, the system is highly adaptable to ERP, SAP and other business specific systems.

The system can be integrated with different navigation systems and support two-way communication between driver and monitoring centre. This allows the fleet manager to remotely set and send routes and tasks for the driver to complete. Options further included:

- creating navigation routes;
- sending end point coordinates;
- sending data for navigating to a specific address;
- sending fast text messages and alerts;
- sending text messages from dispatcher to driver;
- sending text messages from vehicle to dispatcher;
- ability to calculate routes according to the vehicle's gauge;
- history of sent/received messages;
- history of sent POI (points of interest) and routes.

BUSINESS REQUIREMENTS AND NEEDS

We specialise in providing the best service and ongoing support for your individual fleets and operations. We are able to swiftly modify the system according to the specific business requirements and needs of our clients. By maintaining high flexibility and diversity within our system and teams of top specialists, we can provide adequate solutions for all business areas and
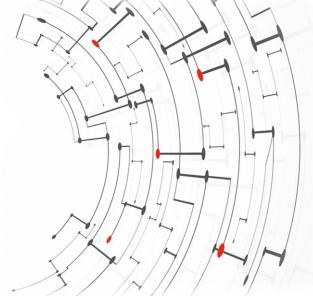
fleets, from trucks and cars to specialised vehicles and equipment in agriculture, construction, cargo (containers) and many more. The software provides detailed view over all events related to transportation and logistics with an accurate quality grading system which clearly shows the productivity and rentability of each vehicle and driver.

GPS SYSTEMS

GPS VEHICLE TRACKING

- **GPS MatriX** is a top-class smart device with extensive capabilities for fleet optimisation and management and rea-time vehicle tracking;

- **GPS MatriX** offers complete integration with the cloud services of a number of GPS Tracking providers;

- **GPS MatriX** is equipped with a sensitive and highly accurate GPS receiver, thanks to which, an exact location of the vehicle is transmitted and viewed from anywhere in the world at any given time;

- **GPS MatriX** offers an extensive 'ALL IN ONE' data set for real-time record tracking of the following parameters:
  - location;
  - speed and direction of movement;
  - travelled distance and routes;
  - tracking both used and the currently available fuel directly through the CAN bus of the on-board vehicle;
  - tracking fuel usage and current fuel status of external devices: factory gauge, additional fuel probe or an additional flow meter;
  - engine Revolutions;
  - engine temperature and/or the storage compartment;
  - opened/Closed doors;
  - switched on/off aggregates;

- The device has a number of outputs which offer live control over the device, enabling the following options:
  - vehicle engine stop;
  - relay and external device control and management;
  - aggregate switch on/ off and more;

- Transmits through the GPRS without limits on all mobile networks from different providers;

- Non-volatile memory, storing up to 20 000 unsent events;

- Specific algorithms for optimising GPRS data traffic in roaming;

- Capability of receiving or making voice calls to authorised numbers;

- Firmware update capabilities through:
  - USB cable;
  - remotely through TCP/IP channel;
  - by SMS from an authorised number;

- SMS alerts for specific events;

- Built-in LiION battery.

GPS VEHICLE TRACKING

Technical Specifications:

Power supply	9 ÷ 40VDC (max 60VDC for 1min)
Analog inputs	2 inputs (12 bits; software selectable range 3÷16VDC; hardware capabilities up to 60V)
Digital inputs	2 inputs (positive triggered) 2 inputs (negative triggered)
Inputs for measuring revolutions	1 input (60VDC max)
Digital outputs	4 outputs (open collector, Imax = 300mA)
Parameter tracking and reading through CAN bus	FMS (SAE J1939), OBD2 (SAE J1979), J1708
Serial port	2 ports (RS232)
Operations with contactless cards	125 kHz ASK (EM4102)
Microphone input	1 input
Power consumption in SLEEP mode	0 mA
Power consumption in IDLE mode	25mA @12V (up to 40mA with RFID)
Power consumption in WORK mode	35mA @12V (up to 150mA when battery is charging, transmitting data and RFID)
GSM module	850/900/1800/1900 MHz
GPS receiver	66 channel
Positioning accuracy	<2.5m
Internal battery	350mAh LiION
Operation temperature	-30˚C ÷ +75˚C
Weight	100g
Dimensions	90mm x 63mm x 32mm

PRODUCED BY

GPS SYSTEMS

Plovdiv 4004, BULGARIA
75A, D. Talev Str.

office@gpsbg.eu

tel. +359 700 20 820
tel. +359 887 376 336

www.gpsbg.eu