

# SR 11 NETTUNO

## GSM BASED GPS LOCATION SYSTEM

# SR11 NETTUNO GSM BASED GPS LOCATION SYSTEM

## DESCRIPTION

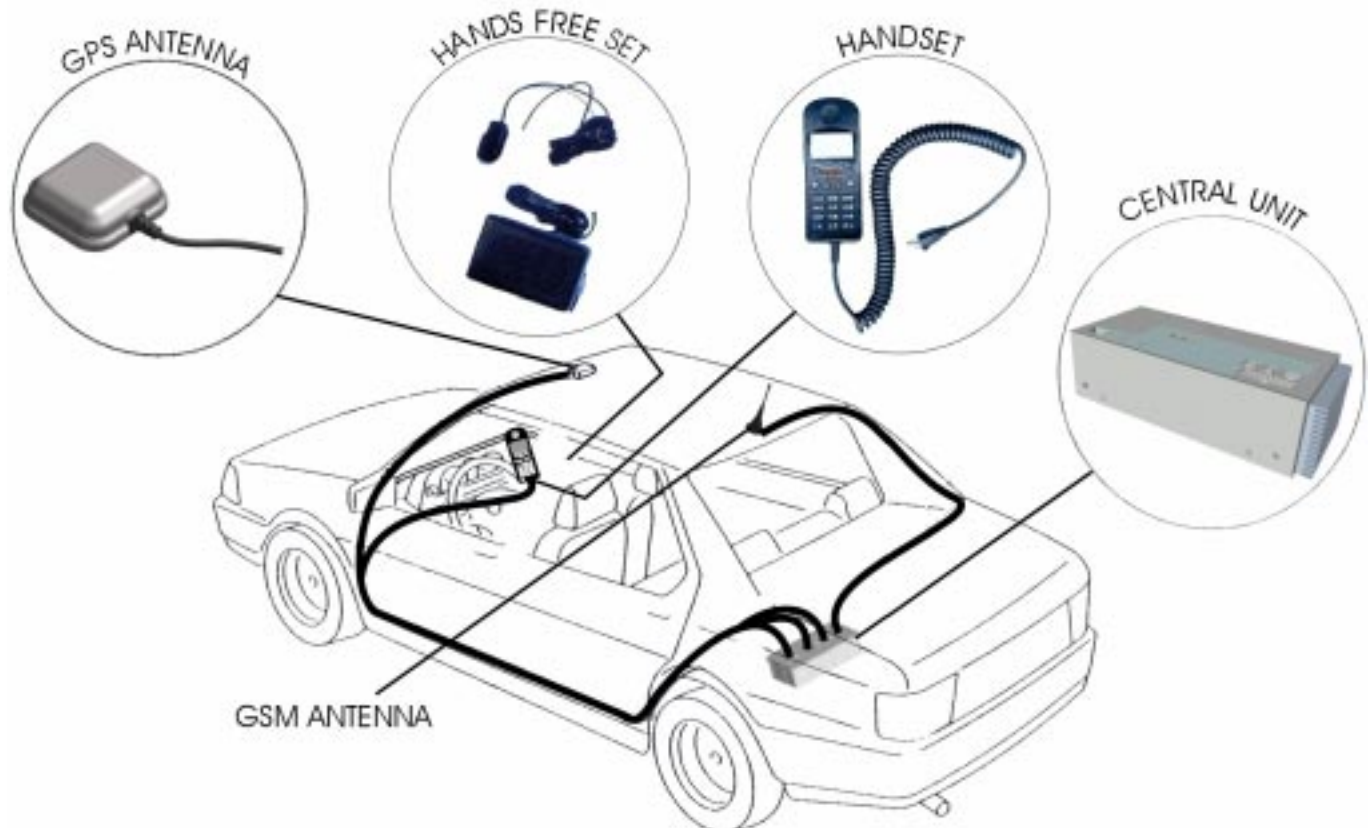
The system is comprised of a mobile set to be installed on a vehicle and a Base Station, which can determine the vehicle's position and supply the user with a number of useful services.

5 The core of the mobile set is enclosed in a metal case containing the GPS receiver, the cellular phone for communicating with the Base Station and a CPU which handles all the necessary functions available.

The core of the Base Station is a management software which makes it possible to display the vehicle's position, monitor mobile device's inputs and outputs, communicate with as well as store data relative to that vehicle.

10 Be it used as a location system for fleet management, an advanced security system or an ordinary vehicle mobile phone, the mobile device is at any one moment in a «precise» state; at every state events may take place which the system reacts to by performing a specific action or changing from one state to another.

Operators at the Base Station know all this and carry out all necessary and opportune actions to give the vehicles service as planned.



This document contains information intended to help the evaluation of this product. Telital Automotive reserves the right to change or discontinue without notice this proposed product.

# MOBILE SET

## GPS RECEIVER

- Reception: continuous on 12 channels
- Precision of detected position: typically 100m
- 5 - Acquisition time
  - cold start: typically 2 minutes
  - hot start: typically 20 seconds
  - re-acquisition: < 2 seconds

## USER INTERFACES



### Handset with keyboard and display 10

The handset enables voice communication as well as all typical functions of a cellular GSM phone like phone book management, MO MT SMS, on display indications, security features, menu customization. 15

Moreover the handset supports all functions related to the location activity like visualisation of the position as longitude and latitude. Visualisation of UTC (Universal Coordinated Time) time, number of Satellites useful for computing and safety; password insertion, speed dial push buttons for specific requirements towards the Base Station. 20 25

NOTICE! The cellular phone is built into the metal case so that the system can communicate with the Base Station even if/when there is no handset.

### 30 Handsfree

Loudspeaker and microphone for handsfree communications.

### Panic Pushbutton

A panic pushbutton can be disguised as desired on board the vehicle. When pressed, the pushbutton alerts the Base Station giving no detectable signs for those inside the vehicle itself.

## CONNECTORS

	FME	antenna GSM
	SMB	antenna GPS
	Molex 12 pins Microfit	inputs and power supply
5	Molex 12 pins Microfit	outputs
	RJ 8 contacts	handset
	RJ 4 contacts	microphone for handsfree and silent listening
	RJ 4 contacts	loudspeaker
	RJ 8 contacts	V28 mobile office
10	RJ 8 contacts	V28 satellite telephone link

## INPUTS

	Digital	3
	Analogue or Digital	5
	Digital or tachymetric	2
15	Digital inputs: Analogue inputs:	active low 0V; 15.6Vmax 0 ÷ 15.6Vmax (programmable thresholds and timings)

## OUTPUTS

8 outputs	Solid state switches Isink: 1A ; active to ground
-----------	--

## 20 BACK-UP BATTERY

Type:	Lithium – Manganese
Capacity	1.3Ah
Duration	max 30min.

### Examples of duration of back-up battery.

- 25 The following examples are purely and strictly indicative. Back-up battery life varies depending on configuration, that is according to the function mode selected for the mobile device. Moreover, it can vary in relation to whatever circumstances are co-occurring when the back-up battery is used.

Example A: GSM signal present, Base Station operator not available, mains power failure, GPS receiver always on  
*greater than 1 hour*

- 30 Example B: no GSM signal found, mains power failure  
*greater than 30 minutes*

## CELLULAR PHONE

The cellular phone is built into the central unit  
Cellular engine manufactured by Telital S.p.A.

## STANDARD ACCESSORIES

- 5 GSM antenna (roof antenna as standard)  
active GPS antenna  
microphone and loudspeaker for handsfree  
fixing brackets  
screws and other mechanical small parts
- 10 Microfit female without wirings

## ACCESSORIES AVAILABLE ON REQUEST:

I/O wirings

*IMPORTANT!* Sensors or any other parts for interfacing with the vehicle are not supplied

## CUSTOMIZING FEATURES

- 15 On request, a number of modifications are possible in order to customize the look of the product, as indicated in the following list:
  - silkscreen printing on accessible surfaces as suitable for mobile device casing
  - silkscreen printing on the handset
  - wording appearing on handset's display when telephone is switched on

## 20 TECHNICAL DATA

Power supply:	10.8V - 15.6V
Consumption:	
- max ( all functions activated )	1.0A peak
- state: motionless and protected ( vehicle is motionless and system armed)	5mA max
- state: alarm ( alarm, telephone transmitting )	200mA mean
- stocking ( system off )	0A
Operating Temperature:	-30°C - + 85°C
30 Storage Temperature:	-40°C - + 85°C

This document contains information intended to help the evaluation of this product. Telital Automotive reserves the right to change or discontinue work on this product without notice.

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.