



SP7600 Series

OBD II GPS Tracking with DTC Codes

The SP7600 series of tracking devices are extremely compact OBD (On-Board Diagnostics) devices with intelligent power management. This Plug & Play GPS offers quick and efficient installation. OBD devices can easily be moved from car to car, making the SP7600 series suited for a wide range of applications. In new car dealerships this OBD GPS is ideal for lot management. Fleet managers will be able to effectively monitor and manage their entire fleet. Usage Based Insurance (UBI) carriers can use the SP7600 to record actual vehicle operations automatically. Everybody will benefit from enhanced security that comes with the ability to instantly locate and recover stolen vehicles.

FEATURES

- 2G/3G Modem Versions
- 3D Accelerometer for Driving Behavior
- AGPS 50 Channel High Sensitive Module
- Device Removal Alert
- DTC Error Codes
- Geofence Management
- Ignition Status Detection (If supported)
- IP or Domain Configuration
- ISO 14230-4 (KWP) and ISO 15765-4 (CAN) Protocol
- ISO 9141-2
- J1962 OBDII Connector Interface
- Low Power Consumption
- Original Data (RPM Engine Temperature Engine Run Time Fuel Consumption)
- Over Rev and Overheating Alerts
- Over Speed Management
- Quad Band GSM Modem
- UDP TCP and SMS support
- Plug & Play OBDII Device
- FOTA (Firmware Updates Over the Air)
- Real Time Diagnostic
- HDOP/VDOP for Precise Location
- Built in GPS & GSM Antenna

SP7600 Series Specifications



GENERAL

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	12 and 24 Volt Vehicle Systems

GPS

Location Technology	Ublox GPS (with SBAS) Telit SL869 Glonass (Optional) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
Tracking Sensitivity	-162dBm
Antenna	Patch Internal
Assist GPS	Supported

CELLULAR

Data Support	SMS, TCP, UDP
GSM/GPRS	Quad Band 850/900/1800/1900MHz
3G Dual Band US	850/1900 MHz (optional)
3G Dual Band EU	900/2100 MHz (optional)
GSM/GPRS O/P Power	Class 4 (2W) for 850/900 Bands Class 1 (1W) for 1800/1900 Bands
GSM/GPRS Fall Back	GPRS Class 10
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (optional)
SIM Card	1.8/3.3 V

INPUT/OUTPUT

Input	Direct Connection to J1962
Output	None
USB	Configuration Firmware Update
Bluetooth	Optional
Ignition Sense	Internal management

ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
3D Accelerometer	Built-in (Auto Calibrate)
Vibration Sensor	Built-in

ON BOARD DIAGNOSTICS

Supported Protocols	J1939 (CAN 250kbps), J1939 (CAN 500kbps), J1850 PWM, J1850 VPW, ISO 9141-2, ISO 14230-4 (KPW), ISO 15765-4 (CAN), J2411 (SWCAN), KW1281 (J2818), ALDL160 (160 Baud), ALDL8192 (8192 Baud), ISO11898
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ELECTRICAL

Operating Voltage	8-32V DC operational for 12V and 24V vehicle support per SAE J1455
Battery	LI-PO 250mAh battery Recharging range: 0 to +45°C
Power Consumption	3mA 12V (sleep), 70mA 12V (power save), 100mA 12V (active tracking)

PHYSICALS

Dimension	52 x 57 x 28 mm
Weight	80g (without battery)

ENVIRONMENTAL

Operating Temperature	-40°C to +80°C (w/o backup battery) -10°C To +50°C (w/ backup battery)
Humidity	95%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC – Part 15B
RoHS	Compliant (optional)

CONNECTORS, SIM CARD ACCESS

Connector Type	J1962
Mini USB	1
Power Switch	Built-in
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal

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