



# SP7401

## CDMA GPS Tracking with OBD-II

The Skypatrol SP7401 is an economical, full featured vehicle tracking product designed for easy and reliable installation in automobiles. The SP7401 is an ideal solution for automotive insurance, driver behavior management, auto rental and automotive applications when access to the vehicle diagnostics interface (OBD-II) is required.



### FEATURES

- Superior GPS & cellular performance
- OBD-II connector and interface to read vehicle bus data
- Built-in accelerometer for driver behavior capabilities and impact detection
- Up to 20,000 buffered messages
- 32 PEG-zones, 1024 Geo-zones (5400 points - polygon/circular)
- Advanced crash detection
- Pre and post vehicle impact data capture capabilities
- Power sleep modes and backup battery
- OBD-II comprehensive I/O
- Optional fit Bluetooth 4.0 dual mode
- Built-in cellular and GPS antennas
- Over-the-air configuration and firmware update download
- OBD, cellular and GPS status LEDs

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## Specifications



### GENERAL

Communications	OBD, Cellular, GPS
Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Messages	20,000 buffered messages
Geofence	32 PEG-Zones (rect./circular) 1014 Geo-Zones (polygon/cir. 5400)

### GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-148dBm
AGPS Capable	Yes

### CELLULAR

Data Support	SMS, UDP Packet Data
Operating Bands (MHz)	GSM/GPRS: 850/900/1800/1900 CDMA/1XRTT: 850/1800 HSPA/UMTS: 800(VI)/850(V)/900(VIII)
Transmitter Power	<b>GSM/GPRS:</b> 850/900, 32.5 dBm 1800/1900, 29.5 dBm <b>CDMA/1XRTT:</b> 850, 24 dBm 1800, 23 dBm <b>HSPA/UMTS:</b> All bands, 23 dBm
HSPA Data Rates	5.6 Mbps upload/7.2 Mbps download
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6

### INTERFACES

OBD-II	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP2000, ISO-15765, CAN
Outputs	None
Bluetooth	Bluetooth 4.0 dual mode (optional fit)
Status LEDs	GPS, OBD-II and Cellular

### ON BOARD

3-Axis Accelerometer	16g, sampling at 400Hz for driver behavior and crash detection
Configuration and Firmware Updates	Over-the-Air via PULS

### ELECTRICAL

Operating Voltage	9-16 VDC vehicle systems
Internal Battery	200mAH
Sleep Mode	Ultra low power sleep <3mA

### PHYSICALS

Dimensions	43 x 64 x 25 mm
Weight	<52 g
Enclosure	Rugged textured plastic

### ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada

### CONNECTORS, SIM ACCESS

Connection Type	Built-in OBD-II/EOBDII interface via J1962 compliant connector
SIM Card	Internal

### CERTIFICATIONS

Fully Certified	FCC, CE, IC, PTCRB, Applicable Carriers
RoHS	Compliant

### MOUNTING

Self-adhesive mounting with OBD-II extender cable

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