

ProTEK

by GoTEK7

2G
3G



The ProTEK GPS Tracker is unlike any other tracker currently on the market. With its unique ability to protect a wide range of assets from luggage to even a vehicle, the Protek gives you complete reassurance on security. We offer this tiny – 80 x 80 x 14mm - product in four different colours (black, beige, blue and pink), and it's readily chargeable via the small waterproof magnetic connector located on the side of the unit.

Why is the ProTEK different ?

Our device differs from others in that it spends most of its time asleep. However, as it wakes every 'x' hour and reports its location to our servers, operating in this mode results in an extended battery life. You can, at any time, amend its reporting interval from one hour to 24 hours via your PC or the app. Should the device be unable to report a valid and precise GPS location for any reason, such as a GPS location being impossible to detect, the device will report its GSM location.

The transmitter

The ProTEK incorporates a radio transmitter with short range (around 100 to 150 metres) in a built up area, making it easier for the receiver to locate it. The transmitter emits its beacon whilst the device is stationary and has been programmed to consume very little power. Even without checking the location from a PC or via the app, this tiny pocket receiver gives you complete confidence that your device has been accurately detected. In this respect, it's a truly remarkable piece of equipment and totally unique in its functionality.

The receiver

The ProTEK receiver is extremely easy to use and does not require any previous radio tracking experience. The range from the receiver to the Protek is around 100 to 150 metres. Simply turn the receiver on (whilst your device is stationary) and it will indicate both a signal strength and an audio tone. Other GPS trackers currently on the market are unable to locate assets with such precision as the ProTek. Whilst they may be able to track to a block of flats or a certain building, Protek's superior functionality enables it to pinpoint a given asset with remarkable accuracy.

RF Receiver



Interfaces

Digital inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Power button	Power on and power off, can be disabled by the air interface protocol
Function Button With Vibration Feedback	Emergency alert or instant geo-fence
UMTS/HSDPA and GSM Antennas	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and power
Mini USB Interface	For external power and configuration

GPS Specifications

GPS Chipset	U-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: < 2.0m
TTFF (Open Sky)	Cold start: 29s average Warm start: 27s average Hot start: 1s average

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Low Power Alarm	Alarm when backup battery is low
Geo-fence	Support up to 5 geo-fence regions
Power On/Off Report	Report when the device is powered on or off
SOS/Emergency Alarm	SOS alarm when function key is pressed
Special Alarm	Special alarm based on the digital input
Motion Detection	Motion alarm based on internal 3-axis accelerometer

RF Specifications

Operating Band	GSM/GPRS: 850/900/1800/1900 MHz UMTS/HSPA: 850(B5)/900(B8)/1900(B2)/2100(B1) MHz
Transmitting Power	GSM/GPRS: 850/900, 33 dBm 1800/1900, 30 dBm UMTS/HSPA: All bands, 23 dBm
HSPA Data Rate	5.6 Mbps upload / 7.2 Mbps download
HSPA Fallback	EDGE/GPRS/GSM quad band, EDGE MCS1- MCS9, 3GPP Release 6