

# ACTIVE TRACK

PERSONAL GPS



REAL TIME  
PERSONAL GPS  
& COMMUNICATION DEVICE



CREATING A SENSE OF SECURITY  
SINCE 1989



**ACTIVE TRACK** is a new security device manufactured by EBS, that integrates a GPS receiver and a quad band GSM/GPRS phone for two-way communication. This functional advanced device can be applied indoor and outdoor because of A-GPS service, that supports GPS signal from satellites by GSM/GPRS.

**ACTIVE TRACK** has been designed as a modern, high technology but also easy in use device, that has a lot of application and brings a variety of benefits for it's users.

Handy, waterproof and shock resistant casing and built-in accelerometer provides that the device can be used both by commercial and private users: in logistics companies, security and fire services, parole system, to child protection, senior and patient care.

## APPLICATIONS:

**Active Track** device allows immediate location and two-way communication in real time:

- Lone worker protection (MAN DOWN function)
- VIP protection
- Outdoor safety for elderly people (elderly care)
- Children protection
- Law enforcement (home arrest, parole system)
- Groups, foreign tourists protection
- Trip management
- Escorting valuable shipments /people - the possibility of routing and alerting the aberration from its course

## MAIN FUNCTIONALITY AND BENEFITS:

### ■ Two-way voice communication device

It can be used as a cell phone, user can call directly the previously programmed number or send signal via GPRS to monitoring station with ask for reply. It is also possible to receive calls with Active Track.

### ■ Personal protection system

PANIC button enables sending alarm signal - data and voice transmission in case of an emergency situation - lone worker protection.

### ■ MAN DOWN motion sensor for fall detection

Fully automated notification about life-threatening situation. It is also possible to configure position and angels - thanks to tilt detection Active Track can send alarm signal if the position is outside the defined range.

- **A-GPS (Assisted GPS)**

Allow both outdoor & indoor tracking; help by delivering satellite data such as accurate time and satellite status to the GPS receiver. This aiding data enables a GPS receiver to compute a position within seconds, even under poor signal conditions. It helps in emergency situation, in rough environments.

- **GeoFencing**

Tracking and monitoring position of GPS users with automatic alarm signal if the user will cross the boundary of determined zone. Effective solution e.g. for child protection.

- **Tamper detection alert**

Excessive shock detection - notification about all mechanical attempts to destroy the device. Tamper switch - protection against opening the device by unauthorized person.

- **Online, real time tracking and history**

Online internet application for tracking GPS location.

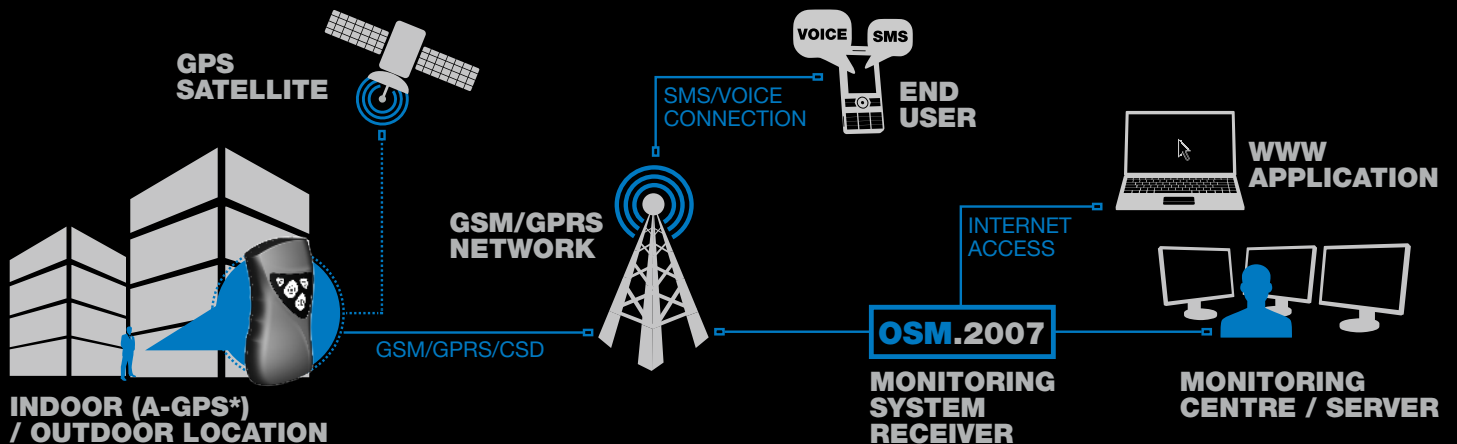
- **Large memory capacity**

Built-in memory for registering up to 2000 events in history; allows collecting information about alarm signals, voice / sms connections and the route registered by GPS.

- **Programming buttons for sending SMS alarm**

- **Can be extended with new functionalities**

## OPERATING DIAGRAM



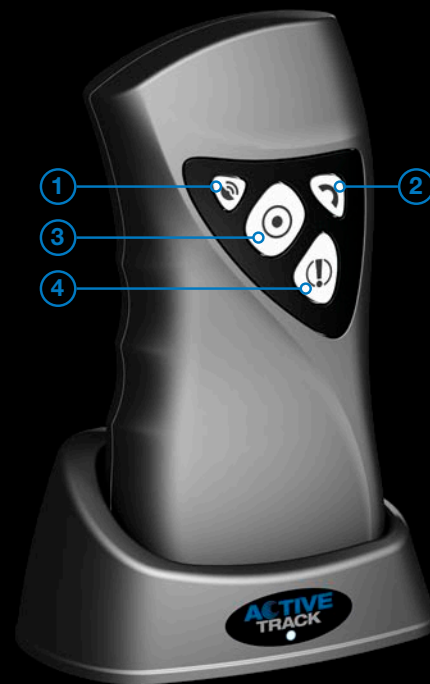
\* GPS users expect instant position information. With standard GPS this is sometimes not possible because at least four satellites must be identified, and their complete orbital position data, called Ephemeris, received.

Under adverse signal conditions, data downloads from the satellites to the receiver can be unacceptably long, hours or even fail altogether.

Assisted GPS (A-GPS) accelerates calculation of position by delivering satellite data to the GPS receiver via wireless networks or the Internet. This aiding data enables a GPS receiver to compute a position within seconds, even under poor signal conditions.

# TECHNICAL PARAMETERES

<b>GSM module</b>	u-blox Leon G-100 (850/900/1800/1900 MHz)
<b>GPS module</b>	
<b>Channels</b>	50 channel u-blox 6 engine
<b>A-GPS online/offline support</b>	YES
<b>Position accuracy</b>	< 2,5 m
<b>TTFH hot start acquisition time</b>	< 1 s average
<b>TTFH cold start acquisition time</b>	< 27 s average
<b>Electrical characteristics</b>	
<b>Power supply</b>	5V/1A
<b>Power socket</b>	Standarized Micro USB type B plug
<b>Battery</b>	Li-Polymer, 2400 mAh
<b>Battery working time after charging</b>	24 hours
<b>Casing protection rating</b>	IP67
<b>Physical characteristics</b>	
<b>Dimensions (HxWxT)</b>	121x60x30 mm
<b>Housing</b>	The waterproof and shock resistant housing
<b>Motion sensor</b>	3-axis motion sensor (accelerometer)
<b>Interfaces &amp; general features</b>	
	Internal speaker and microphone
	4 buttons for easy operating
	Ambient operating temperature: -20°C to +60°C
	Based on durability-assumptions for Active Guard
	Data transmission via GPRS (TCP, IP), SMS to OSM.2007
	Voice call
	Silent call
	Remote administration & firmware update
<b>Configuration</b>	Local: PC through RS232 link (LX cable and AGP3 programmer required) Remote: via GPRS, SMS, CSD
<b>Alarm events buffer size</b>	1000
<b>Quantity of system events stored in history</b>	2000



- ① GPS button
- ② CALL ME button
- ③ LOCATION button
- ④ PANIC button



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