



# GLP50

## Innovative Real Time Personal Tracking Solution

Astrata's GLP50 Personal Tracker is a portable, compact high performance GPS tracking device with an integrated GPS receiver enabling real time tracking.

The small and compact unit, the size of a modern mobile phone, is ideally suited for a variety of applications where individuals need monitoring or tracking or may need assistance due to their isolated location or potentially vulnerable situation.

The device sends alerts in the event of an emergency to location servers, to a predefined email address, to any number via SMS or emergency voice phone call. Alerts include, Time, Date, Speed, Heading and Location of a person in distress.

Astrata's innovative solutions have established themselves as the leading choice for Government and Commercial organizations throughout the world making the GLP50 suitable for VIP/personnel security as well as police and military applications. The device also lends itself to use by the elderly, young and physically challenged as it can be discreetly placed in or attached to an item of clothing or on a neck strap.

### Features:

- GPS SiRFIII 20Ch with EGNOS/WAAS
- GSM/GPRS Quad band 850/900/1800/1900MHz Built in SPK and MIC
- Power Saving & Security Features
- GPS output available via USB port
- Smart Report for out of GSM network range
- Three fast dial buttons
- Geofence capability with in/out of fence alert
- Real time dynamic position report based on time interval or distance travelled
- Small & Slim – the size of a mobile phone
- Rechargeable Li-Ion polymer battery 1500mA for 24 hour operation

### Applications:

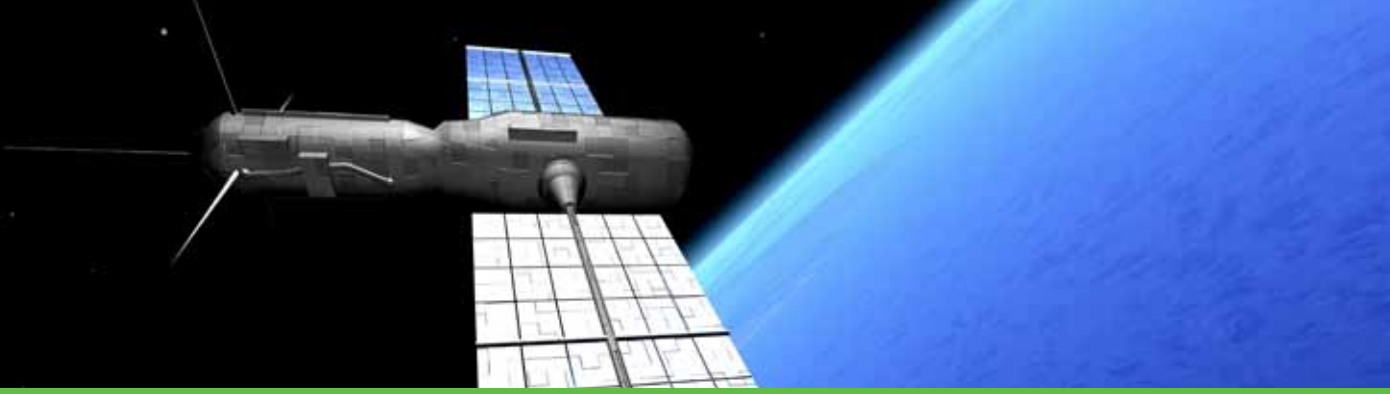
- Employee status monitoring (verification of hours worked in line with health and safety mandate and duty of care legislation)
- Lone worker support and advice (e.g. alerts for workforce from entering no go zones)

- Man down/emergency situations (e.g. distress/SOS button/auto answer/covert listening)
- Leisure industry (trekking/adventure holidays for individuals in isolated locations)
- Security & manned guarding (e.g. out of hours operation and remote monitoring)

### Benefits:

- Optimization of workforce as the unit allows a command and control centre to see who is where at any time
- The monitoring of personnel to ensure safety and work ethics are adhered to
- Reduction of unauthorized trips through the detection and reduction of unnecessary movement
- The provision of reassurance to individuals in an emergency situation
- Assistance to the emergency services if needed
- 2-way voice capability allows clarification and detail to be given in an emergency situation





## Technical Specification

Electrical & Environmental	Min	Typical	Max
Li-Ion Battery Voltage	4.0V	4.2V	4.7V
Current Consumption in operation mode	-	90mA	100mA
Current Consumption in Stand-by mode	-	7mA	10mA
Current Consumption in Sleep mode	-	1mA	-
Peak Current (< 100mS)			1500mA
Supply ESD susceptibility			12kV
Ambient operating temperature	-35°C		70°C
Storage temperature	-40°C		100°C

## GPS Engine Specifications

Channels	20 Ch.
Position accuracy	3-10 Meter
Velocity accuracy	0.1 M/S
Time accuracy	1 uS
Cold start acquisition time	48 S
Warm start acquisition time	38 S
Hot start acquisition time	1 S
Maximum altitude tracked	18,000 M
Maximum velocity tracked	515 M/S
WAAS/EGNOS/MSAS	Yes
GPS sensitivity	-160 dBm

## Performance

**Compact Size** The GLP50 is light-weight and compact for easy carrying

**GPS W/Indoor Capability** Built in high sensitivity GPS receiver can provide the best accuracy anywhere in the world

**One Model for Each Need** GSM/GPRS Quad band 850/900/1800/1900MHz

## Strength & Durability

**Environmental Tests** In addition to FCC, CE and PTCRB requirements, the GLP50 meets most industrial standards

**Casing** The shock resistant case provides a sealed battery compartment design for use in rough environments

## Security

**Private Protocol** The GLP50's protocol provides high efficiency and security for 2-way communications by GPRS or SMS between the unit and the Control Centre

**ID & Passwords** Unique ID and password for each GLP50 unit

Astrata is focused on advanced location-based IT services and solutions (telematics) that combine GPS positioning, wireless communications (satellite or terrestrial) and geographical information technology, which together enable businesses and governments to monitor, trace as well as control the movement and status of machinery, vehicles, personnel or other assets.

Astrata has designed, developed, manufactured and currently supports ten generations of telematics systems with units deployed worldwide.

Astrata has offices throughout the world including the Middle East, United States, Europe, New Zealand, Australia and Asia.

For further information on the company please visit [www.astratagroup.com](http://www.astratagroup.com) or email [info@astratagroup.com](mailto:info@astratagroup.com)

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