



## DATASHEET

### DQ80 Sat



#### Description

The DQ80 Sat is a compact, waterproof GPS tracking device for monitoring fixed & mobile assets. It receives GPS locations & then transmits status data using the Globalstar Simplex satellite network. DQ80 can be line-powered (5 volts USB or 8-22 VDC regulator cable) with automatic battery back-up, or using 4 x AAA Lithium batteries can function for many months. 12 reporting modes enable configuration for a wide range of user applications. Its small size & reversible mounting bracket enable it to be covertly installed on boats, vehicles, trailers, caravans, containers & industrial plant for anti-theft or logistics monitoring purposes. Two wired inputs are available to indicate ignition/engine hours or door open/close.

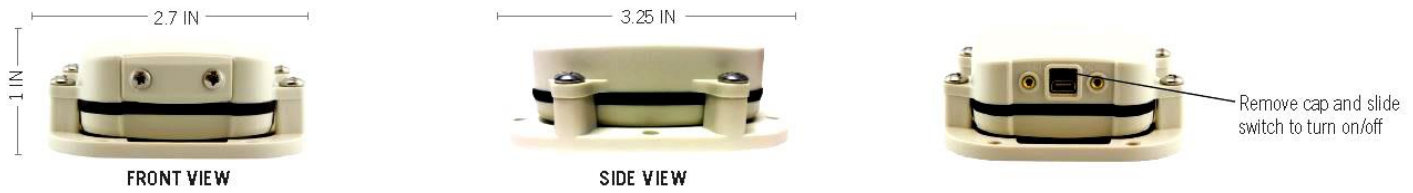
#### Operation

A vibration sensor in the unit detects movement, and can be configured to wake the device & get a GPS fix. It sends these co-ordinates via the Globalstar satellite network. Data is then passed via the network ground station to the Duotraq server, where the position can be viewed on any internet enabled device. Tracking intervals are generally configured for each application, with a 'stationary' and 'moving' period specified. A 'self-geofence' setting can be used to reduce messages when the device remains in the same location, such as moored boats, offshore buoys, trailers or plant for example. Any number of 'geofence' location zones can be set from the Duotraq management software to indicate movement into/out of these areas.

#### Applications

- Anti-theft monitoring of boats, personal watercraft, vehicles, containers & plant
- Live tracking of long-distance journeys in remote locations on land or sea
- Location reporting of asset groups or fleets with input status, ignition, engine hours, & battery level
- Telemetry reporting from remote equipment
- Equipment rental monitoring

## Technical features



### Standard messaging

- Wake, GPS Locate, Transmit location, resume sleep

### Alternative reporting

- Triggered by alarm or motion; Transmits GPS location on alternate interval for programmed time or while alarm remains active

### Integrated accelerometer

- Message on start and stop; engage interval override on motion or set time when in motion

### Change of location

- Theft alert reporting based on distance moved ('home' geofence)

### Serial communication capability

- User defined messages; serial (TTL) I/O to interface with remote sensors

## DQ80 SPECIFICATION

Dimensions	68.5mm x 82.55mm x 25.4mm
Weight	102g (inc batts)
Supply Voltage	5VDC (USB) or 8-22 VDC with regulator cable (accessory)
Battery type	4 x AAA 1.5V Lithium
Battery life	1.5+ years (dependant on configuration)
Operating Temperature	-30 to +60 deg C
Humidity	NEMA 4X/ IP68
Standards compliance	SAE J1466 MIL STD 810; RoHS
Certifications	CE mark; Industry Canada; FCC CFR pts 16 & 25

## Supplied with

4 x AAA Lithium Batteries  
Reversible mounting bracket  
Adhesive mounting sticker

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