



DATASHEET

DQ50



Description

The DQ50 is a low-profile, rugged IP67 GPS device designed for tracking containers, trailers, skip bins, and other assets without power, where long battery life is required without sacrificing the frequency of updates and performance.

The DQ50 roams across GPRS cellular networks giving you global coverage of your assets' movements using the built-in Data SIM card. Communications with the device are two-way, allowing the DQ50's behaviour and update rates to be changed Over-The-Air (OTA) including a "Recovery Mode" function configured for anti-theft applications.

By utilising the latest technology, the DQ50 is able to operate in ultra-low power modes, providing a battery life of up to 5 years with adaptive tracking. Using both GPS & Glonass systems provides fast, accurate fixes, while a low-noise amplifier ensures tracking even in low cellular coverage areas where other devices simply cannot operate.

The DQ50 can use 4 x standard 'C' size Alkaline cells, or LTC type industrial batteries for use in extended temperature ranges between -40 to + 85 deg C.

Applications

- Tracks trailers, freight containers, skip bins
- Tracking and monitoring in extreme climates
- Rail transport & heavy goods vehicles
- Boats without power and Tenders
- Agricultural equipment
- Generators & industrial machines

Technical features

- High sensitivity GPS gives fast and accurate positions using GPS and GLONASS positioning systems simultaneously
- Long battery life (up to 5 years)
- Two-way communication allows settings and updates to be changed over the air
- Extended temperature range option for tracking and monitoring in extreme climates
- Low noise GPS amplifier for tracking in hard-to-reach areas such as container stacks, 'urban canyons' or forested areas

- Adaptive tracking automatically adjusts the rate of updates to preserve battery life
- Robust IP67 housing with screw fixing lugs

DQ50 SPECIFICATION

Dimensions	225mm x 65mm x 30mm
Weight	500 grams with batteries
Battery type	4 x Alkaline 'C' cells or Lithium Thionyl Chloride (LTC)
Battery life	Typically 2 to 5 years with Adaptive Tracking @ one position per day.
Operating Temperature	-40°C to +85°C *Must be fitted with LTC batteries for extreme low temperatures
Humidity	IP67 rated waterproof
Operating time	Up to 5 years if transmitting 1 position per day
Internal Antennae	Internal GPS and cellular antennae
Vibration sensor	3-axis accelerometer
Memory	Flash memory with capacity to store over 50,000 records
GSM Frequency	Quad Band GSM/GPRS Class 10 850 / 900 / 1800 / 1900 MHz
GPS Sensitivity	UBLOX MAX8 module with -167 dBm tracking sensitivity
Positioning System	Uses GPS and GLONASS positioning systems simultaneously

For more information, contact:

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