

# DQ54

## Compact Asset Tracker



DQ54 is a compact, waterproof, battery-powered GPS asset tracking device ideal for monitoring Vehicles, Boats, Outboard Motors, Tenders, Personal Watercraft, Trailers, livestock, containers and other valuable assets.

Available with GPS or Wi-Fi for indoor tracking. Powered by 3 x AAA lithium batteries, DQ54 provides up to three years operation depending on settings.



- Versatile long-term battery powered monitoring
- Rugged IP67 waterproof housing
- Operates on 2G or IoT networks: LTE CAT-M1 and NB-IoT
- Suitable for indoor and outdoor use
- Easy to install and conceal
- High performance GPS for accurate positioning

## APPLICATIONS



Non-powered  
asset tracking



Equipment  
locate and  
recovery



Livestock  
tracking



Anchoring and  
security of  
assets



Shipping  
containers and  
freight

# DQ54

## Compact Asset Tracker



### Technical Specification

TRACKING	
<b>GPS and Cellular Antenna</b>	Internal GPS and cellular antennas tuned by RF laboratories for optimal performance. Optional Wi-Fi version for indoor location.
<b>GPS/GLONASS tracking</b>	Concurrent GPS and GLONASS tracking. uBlox EVA-M8 Module. 72 channel high sensitivity receiver. -167dBm industry leading tracking performance.
<b>AssistNow Offline</b>	AssistNow Offline aiding data for extremely fast time-to-first fix and performance in urban canyon environments.
<b>Low Noise GPS Amplifier (LNA)</b>	GPS signals are boosted by a special low-noise amplifier (LNA). This allows operation where normal units will fail to receive GPS signal.
FIRMWARE	
<b>OTA Configuration</b>	DQ54 be remotely configured and updated OTA (over the air) from Duotraq's asset monitoring platform.
<b>AES-256 Security</b>	DQ54 uses bank-level AES-256 device authentication and data encryption to ensure that your data is kept private and secure.
<b>Adaptive Tracking</b>	Adaptive-Tracking uses the accelerometer and GPS data intelligently to send frequent updates when the device is moving and reduce to once per day when stationary to preserve battery life.
<b>Recovery Mode</b>	DQ54 can be remotely switched into Recovery Mode which enables live tracking and reporting to recover assets that are lost or stolen.
<b>G-Force Events</b>	The 3D accelerometer provides an option to detect High-G events (for example if an asset is dropped or involved in accidents) and reports these to the server
<b>Man Down</b>	DQ54 can be configured to send an alert to the server when the device has not moved for a set amount of time. Handy for monitoring livestock, shipments etc.
MECHANICAL SPECIFICATIONS	
<b>Compact Housing</b>	DQ54 comes in a compact, rugged IP67 rated waterproof housing that is UV stable. Livestock collar accessory available.
<b>Dimensions</b>	L 85 x W 63 x H 24mm
<b>Operating Temperature</b>	-20°C to +60°C* *Board and housing. Ensure that batteries are rated to operate within temperatures of your application

POWER	
<b>Batteries</b>	3 x AAA 1.5V Lithium batteries.
<b>Battery Life</b>	Up to 3 years depending on settings
<b>Max input voltage</b>	6V
<b>Sleep current</b>	3uA
CONNECTIVITY	
<b>SIM Size</b>	Nano (4FF) size cellular SIM card
<b>2G or 4G</b>	The DQ54 can be manufactured for specific markets around the world.
<b>2G Modem</b>	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
<b>4G Modem</b>	uBlox SARA-R410M Modem operates on all major global LTE-Cat-M1 and NB-IoT bands. These new low-power networks are specifically designed for IoT applications, providing long battery life.  Supported LTE bands: 1-5, 6, 8, 12, 13, 17, 19, 20, 25, 26, 28
OTHER	
<b>3-axis accelerometer</b>	The 3-axis accelerometer allows DQ54 to 'sleep' in an ultra-low power state yet still wakeup when movement occurs. It can also detect high-G events and after-hours activity.
<b>Internal Memory</b>	Internal memory stores up to 25,000 records ensuring that data is not lost when the device is out of range. Normally data is sent to the server immediately