

# CBMI 100 Battery Powered Asset Tracking

## *Condition Based Monitoring (CBM) Device Supporting Asset Tracking Applications*

The CBMI 100 is a low-profile, rugged 2G or 3G GPS device designed for tracking non-powered assets where super-long battery life is required without sacrificing the frequency of updates and accuracy performance.

The CBMI 100 is able to roam onto cellular networks across the globe giving you global coverage of your assets movements at a low SIM card data cost. Communications with the device are two-way, allowing the CBMI 100's behaviour and update rates to be changed Over-The-Air (OTA) including being able to be switched into "Recovery Mode".

The wireless 2G, 3G (and future 4G CatM1) and GPS support on the CBMI 100 controller makes it ideal for Condition Based Monitoring (CBM) applications, Asset Tracking, Cloud based applications and Yard Geo-fencing monitoring and alerting applications.

### Features and Benefits

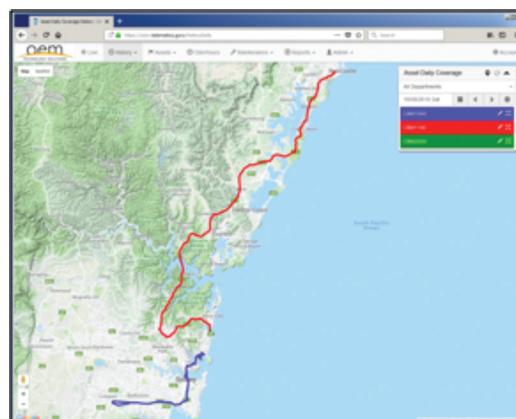
- Up to 5 years battery life with once per day logging
- Up to 2 years battery life with detailed tracking
- No install required, simply "place 'n trace"
- IP67 water and dust proof
- Rugged, robust and low-profile
- Off-the-shelf replaceable C Batteries
- Configure over-the-air (OTA)
- Switch from "locate" to "track" over-the-air
- Magnetic tamper detection (optional)
- Unauthorised movement alert
- Integrated 3 axis accelerometer
- Limited speed alerts
- Temperature Monitoring
- 50k records data logging capacity

### Applications

- Remote Condition Monitoring
- Non-Powered Asset Tracking
- Vehicle and Wagon Tracking
- Yard Geo-fencing Monitoring and Alerting
- Trailers and Mobile Assets
- Run Hour and Distance Monitoring
- Anchoring and Security of Assets

### Ordering Information

- Part Number: 040-0173



## Specification

Description	CBMI 100 - Battery Power Asset Tracking	
Power Requirements	4 x C-Cell Size	4 x Alkaline batteries – industrial type recommended 4 x LTC batteries – larger temperature range and capacity
Sleep Current	5-10µA (micro-amps), depending on setup	
Environmental	-20°C to +60°C For operation in extreme temperatures the device must be fitted with LTC batteries	
Cellular Connectivity	Network:	2G/3G HSDPA (future 4G LTE CatM1)
	SIM:	Standard (2FF) cellular SIM
	GSM Antenna:	Internal cellular antenna tuned by RF laboratories to ensure optimal performance
Auto-APN	Analyse SIM and detect APN from pre-loaded list. Multi-APN on board for roaming	
GPS Tracking	GPS Module:	High sensitivity assisted GPS receiver, 72 channel
	GPS/GLONASS:	Concurrent GPS/GLONASS
	GPS Antenna with LNA:	Internal antenna. Boosted by low-noise amplifier (LNA) allows operation in “urban canyons” and container stacks
Adaptive Tracking	Adaptive-Tracking technology enables accelerometer and GPS data to be used intelligently to work out if it is moving and send frequent updates, as well as to scale the update rate down to once per day if the asset is stationary in order to preserve battery life	
AssistNow Offline	Predicts satellite locations, reduces the time to first fix, improves performance in “urban canyons”	
Temperature Sensor	The on board temperature sensor is accurate to +/- 5°C	
Internal Memory	Flash memory can store 50,000 records	
Recovery Mode	Switch from Daily Locate to Live Tracking over-the-air	
3D Accelerometer	The 3 axis accelerometer allows the CBMI 100 to “sleep” in an ultra-low power state yet still wake up when movement occurs	
Tamper Detection	Optional magnetic wireless tamper switch detects when the device has been removed from the asset.	
Performance Monitoring	Track how the Remora is using its power with intelligent performance counters. Monitor wakeups, GPS fixes, uploads and more to understand exactly what the device is doing.	
Enclosure	IP67 UV Stabilised ABS/Polycarbonate	
Size	261mm (L) x 75mm (W) x 32mm (H)	
Weight	500g with batteries installed.	
Terminations	None	
Part Number	040-0173	

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