Barra EDGE

LTE-M (Cat-M1) / NB-IoT

Lowest-cost battery-powered indoor/outdoor asset tracker for LTE-M/NB-IoT networks.

149 x 51 x 21 mm

Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location fallback for seamless indoor/ outdoor asset management

‘Deploy Once’ Battery Life

10+ years battery life on only 2 x AA user-replaceable batteries.

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

“Battery Low” and “Battery Critical” alerts

Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings

Slim & Ultra-Rugged

Compact and waterproof housing ensures the device can withstand impact, fine dust, and brief submersion

Magnetic Activation & Tamper Detection

Magnetic switch for activation and Tamper Detection

PQ-TEAM OY

PQ-TEAM OY, Kauppiaankatu 13, 00160, Helsinki, FINLAND

+358 40 5285 182, info@pqteam.fi, www.pqteam.fi

Mechanics / Design

Dimensions	149 x 51 x 21 mm
IP/ IK Rating	Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the Barra can withstand impact, fine dust, and brief submersion
Installation	Compact and concealable. Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more.
Operating Temperature	-30°C to +60°C
3-Axis Accelerometer	3-Axis Accelerometer to detect movement and high G events
Flash Memory	Internal flash memory stores approximately 1400 records if device is out of cellular coverag
On-Board Speed and Heading	Scanning technology used on the Barra does not return speed and heading.
On-Board Temperature	The device reports internal temperature which provides an indication of ambient temperature

Smarts

Adaptive Tracking	Configure parameters to send updates based on set time intervals or when movement occurs. Adaptive tracking technology detects when the device is on the move and increases the update rate, providing detail when you need it while conserving battery when stationary.
Battery Life Monitoring	‘Battery Low’ and ‘Battery Critical’ alert levels
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Impact Detection	Configure impact-detection alerts when G-forces are exceeded by a user-defined threshold
Magnetic Activation	Magnetic switch can be used to activate the unit – meaning SIM cards and batteries can be pre-installed, simplifying deployment
Rotation Counting	Keeps a count of the number of rotations of the device about the Z axis
Run Hour Monitoring	Capture run hours based on movement to understand and optimize asset utilization
Sleep Mode	Stationary devices enter sleep mode until movement occurs to conserve battery life and optimize data usage
Tamper Detection	Magnetic switch provides an alert if the device is removed from your asset
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking for asset retrieval
Tip Detection	Define a range of angles that constitutes a ‘tipped’ state and configure alerts

Batteries

User-Replaceable Batteries	2 x AA
*Battery Life	Once Daily location updates – 10+ years Movement-Based location updates – 5+ years Hourly location updates – 3+ years

* Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.