

NEW



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 (5.9 x 2 x 0.8 in)

Indoor/Outdoor

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



'Deploy Once' Battery Life

10+ years on 2 x AA user-replaceable batteries with 'Battery Low' and 'Battery Critical' alerts



Cloud-Based Location

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



Adaptive Tracking

Tracks assets when they're on the move and enters sleep mode when stationary to conserve energy



Magnetic Activation & Tamper Detection

Magnetic switch for activation and Tamper Detection



Slim & Ultra-Rugged

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

Connectivity

	Nordic nRF9160 Modem operates on all major global LTE-M and NB-IoT bands
Cellular Module	Supported LTE bands: LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66
SIM Size & Access	Internal Nano 4FF SIM eSIM Ready (MOQs apply)

Location

Chipset	Semtech LR1110		
Environment	Indoor/Outdoor		
GNSS Scanning	Concurrent GPS/BeiDou		
Wi-Fi Location Scanning	Indoor asset location using Wi-Fi access point scanning		
Cell Tower Location	Cell tower fallback for positioning when there is no GNSS or Wi-Fi signal		
Cloud-Based Solver	Asset location is calculated in Digital Matter's <u>Location Engine</u>		
*Location Accuracy	~5m-80m with GNSS scanning in open areas ~10m-100m with Wi-Fi in urban areas ~250m-1km Cell Tower Geolocation - dependent on number of nearby towers		
	Results vary depending on real world conditions		
Low Noise Amplifier	GPS signals are filtered and boosted by a SAW filter and low-noise amplifier (LNA) allowing operation where other units fail		
GNSS Assistance	GNSS almanac data for greater sensitivity and position accuracy		

^{*}Results vary based on real world conditions. Device configuration, installation, environmental conditions, augmentation services, and many other factors may lead to variations in positioning accuracy.

Power

Input Voltage	2.2 - 3.6V
Sleep Current	<10uA* *Average current in lowest power configuration

Batteries

User-Replaceable Batteries	2 x AA. Batteries not included.		
Supported Battery Types	Alkaline Lithium (LiFeS2) – recommended for best performance *Please dispose of Lithium batteries in a safe and responsible manner		
*Battery Life Estimates	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.

Mechanics/Design

Dimensions	149 x 51 x 21 mm (5.9 x 2 x 0.8 in)			
Housing	Non-branded housing for optional white-labelling			
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.			
Magnetic Switch	Magnetic switch enables quick activation and tamper detection			
Operating Temperature	-30°C to +60°C			
Cellular Antenna	Internal			
GPS Antenna	Internal			
Wi-Fi Antenna	Internal			
3-Axis Accelerometer	3-Axis accelerometer to detect Movement and High-G events			
Diagnostic LED	Diagnostic LED indicates operation status			
Flash Memory	Internal flash memory stores approximately 1400 records if device is out of cellular coverage			
Speed and Heading	Scanning technology used on the SU-6700 Edge does not return speed and heading			
Onboard Temperature	The device reports internal temperature which provides an indication of ambient temperature			

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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			
				

Device Management

Flexible Configuration	Configure device parameters such as position update rate, movement, and accelerometer settings, and more to fit any tracking application	
Device Management Platform	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system	
Configuration App	Configurable with DM-Link provisioning tool	

Integration

Security

	Military-level AES-256 Encryption from device to Device Manager to protect the integrity and
Data Security	confidentiality of telematics data. Data forwarded to third-party systems is sent via HTTPS for
	end-to-end security.

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Warranty

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Two-year manufacturer's warranty. Exclusions apply.

Certifications

In Progress

New Product Introduction

PLEASE NOTE: The specifications set out in this draft data sheet are not final, are subject to change without notice and should not be relied on as anything other than an estimation of the device's anticipated specifications. A data sheet setting out the device's final specifications will be made available in due course. In the interim please contact us should you have any questions.