

DIS-CARSON

The DIS-Carson is a solar powered IoT Tracking Device for detection of beacons. Equipped with GPS and LBS (WiFi + cell tower scanning), which translates to a specific location which is added to the received beacons that travel with the Carson. Its LTE-Cat M1 and NB-IoT connectivity ensures reliable data transmission.



COVERAGE

In 25+ countries reach with the LTE-M network



BATTERY

30 days without solar power



DUST AND WATERPROOF

The device is IP66 & IP67 dust and waterproof



ACCURATE POSITION

Combination between LBS (Cell + WiFi) & GPS



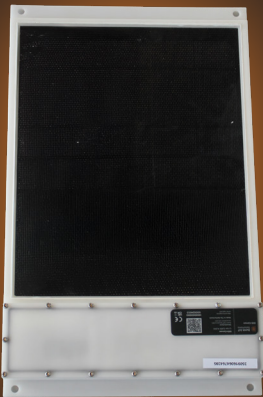
SOLAR POWER

Daylight charging with extended battery autonomy



10G READY

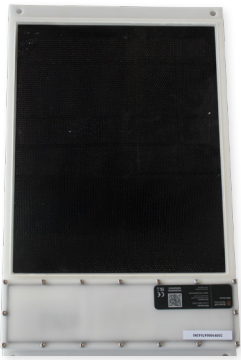
This device is 10G-Ready



DIS-CARSON

Overview

The DIS-Carson is a solar powered IoT Tracking Device for detection of beacons. Equipped with GPS and LBS (WiFi + cell tower scanning), which translates to a specific location which is added to the received beacons that travel with the Carson. Its LTE-Cat M1 and NB-IoT connectivity ensures reliable data transmission.



Coverage

The DIS-Carson extends its capabilities across 25+ countries, leveraging the LTE-M network for widespread coverage. This ensures a reliable and expansive reach, allowing seamless connectivity in diverse geographical regions.

Form Factor and Installation

This device has a form factor of 330mm x 290.5mm x 25mm.

Security Measures

Robust security protocols are incorporated into the device and firmware, safeguarding your telematics data. Data transmission uses 128-bit ECDH encryption, and memory-safe programming practices are employed to protect against potential threats.

Dust and Waterproof

Featuring an IP66 + IP67 rating, the DIS-Carson is dust-tight and water-resistant, capable of withstanding challenging conditions. Its robust design ensures reliable performance, making it suitable for various industry applications

Key features

- GPS, WiFi, and Cell Tower Scanning
- LTE-Cat M1 and NB-IoT Connectivity
- Remote Firmware Updates (OTA)
- Battery Life: 30 days without solar power, rechargeable based on Solar power.
- Antennas are internal
- Form Factor: 330mm x 290.5mm x 25mm
- Secure Data Transmission (128-bit ECDH)
- Robust Firmware Security Practices
- CE certified
- SIM: MFF2

Key data

Frequency range:	700-2200MHz
Certified LTE bands:	B1-B5, B8, B12-B14, B17-B20, B25-B26, B28 and B66

Certified global operators:	AT&T, Bell, China Telecom, Deutsche Telekom, KDDI, Telstra, Verizon, Vodafone, etc.
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Sensors

GNSS:	GPS / QZSS
WiFi:	IEEE 802.11 b/g/n-compliant 2.4GHz up to 8 MAC addresses with RSSI.
Cell towers:	CellId, TAC, RSSI up to 6 neighbors
Buzzer:	Up to 85dB
Accelerometer:	3-axis motion detection
SubGHz receiver	868 MHz

Operating conditions and package

IP-code:	IP66 + IP67
Casing:	330mm x 290.5mm x 25mm

Baseline Functionality

The DIS-Carson is designed to operate based on movement, when moving the device it search for 5 minutes for beacons and after that the devices starts localization. During movement the devices keeps doing this until standing still or empty after 30 days without solar power.

Solar Power

The DIS-Carson is equipped with a solar panel that keeps the device charged during daylight. When solar power is unavailable, it can continue operating for up to 30 days on its internal battery. Once exposed to light again, it automatically recharges to resume normal functionality.

Heartbeat Interval when

The device reports at regular intervals known as the “heartbeat interval.” This interval is configurable, allowing you to set how often the device sends status updates to the server. It ensures you receive periodic updates on the device’s status when being stationary.

Movement Detection

The device also wakes up when it detects movement. Based on this movement detection the beacon detection and travelling location interval will start each 5 minutes, until the asset stops moving.

Next-Gen Connectivity

The DIS-Carson is 10G-ready, ensuring compatibility with ultra-fast networks for seamless data transmission and enhanced performance in a rapidly evolving IoT landscape. By intelligently waking up and reporting based on these configurable criteria, the DIS-Carson ensures that you receive timely and relevant information about the status and location of your assets and the assets that travel with your asset.