

TECHNICAL SPECIFICATIONS

IoT ULD Track

Model No. MR 814

Reliable ULD Tracking

IoT ULD Track brings precise, real-time tracking to ULD pallets with effortless setup and a long battery life. Built to withstand demanding environments, it leverages LoRa and BLE technology for seamless global monitoring, ensuring full visibility and enhancing operational control.



Key Features

- Asset Tracking**
 Milestone-based asset tracking ensures efficient management of the ULD fleet. The loggers are easy to install and offer an impressive runtime of up to 5 years.
- Global Operability**
 Utilizes the ISM 2.4GHz band for seamless operation worldwide without state-specific licensing requirements.
- Optimized ULD fleet management**
 Integrate seamlessly with Validaide software, leveraging advanced tracking technology.
- Live Location Tracking**
 Real-time tracking via LoRa or BLE connectivity, enabling enhanced visibility and accurate decision-making.

Temperature Sensor

Measurement Range	-40°C to +75°C
Accuracy	±0.2°C > 0°C, ±0.3°C < 0°C

Mechanical Specification

Weight	20g
Dimensions	217 x 19.5 x 7.2 mm

Operating Specification

Mount	Seamless installation by clicking into tracks of ULD pallets
Operating Temperature Range	-40°C to +75°C
User Interface	1x RGB LED 1x push button
Battery Life	5 years (default configuration)

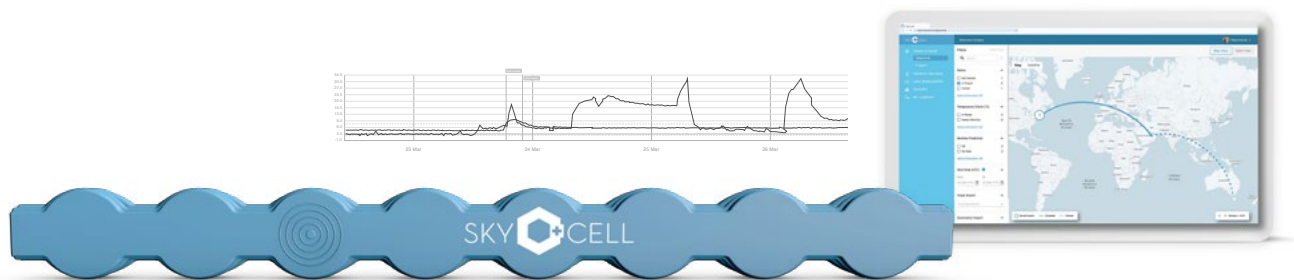
Wireless Communication

Transmission Interval	1h moving, 6h stationary (accelerometer-based detection of movement)
Connectivity	Fully automated readout via SkyCell gateway network or via IoT X Connect
Wireless Communication Standards	LoRa, BLE
Frequency Band	2.4 GHz global ISM band 2.4 to 2.48 GHz
RF Transmission Power	Max. 12.5 dBm / 17.8 mW TX power



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Approval

Airline Approval

**Approved by major airlines as cargo tracking device
complies with EASA, AMC1 CAT.GEN.MPA.140, 2019**

Conformity

CE, FCC

EU directives

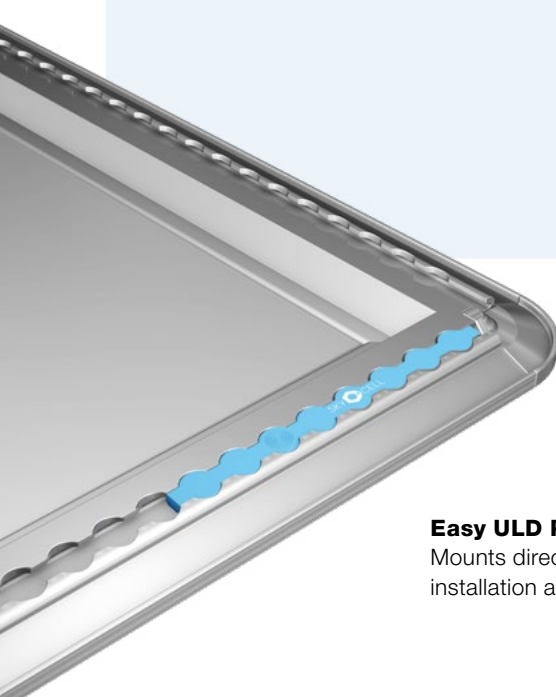
**2014/30/EU Electromagnetic Compatibility (EMC)
2014/53/EU Radio Equipment Directive (RED)
2014/45/EU Low Voltage Directive (LVD)
2015/863/EU on the Restriction of Hazardous Substance (RoHS3)**

FCC ID

2A2SN-SKYCELL814

Standards

**EN 301 489-1 V2.2.3 (EMC)
EN 301 489-17 V3.2.4 (EMC)
EN 300 328 V2.2.2 (Radio)
EN 62368-1:2014+A11:2017 (Electrical Safety)
EN 50663:2017 (RF Exposure)
EN 63000:2018 (RoHS)
FCC Part 15 C : 15.203 (Radio)
FCC Part 15 C : 15.205 (Radio)
FCC Part 15 C : 15.207 (EMC)
FCC Part 15 C : 15.209 (EMC)
FCC Part 15 C : 15.247 (Radio)
47 CFR Part 2.1091 (RF Exposure)
RTCA DO-160, Section 21, Category H (RF radiated emissions)
UN38.3 (Battery)
UL 1642 (Battery)**



Easy ULD Pallet Mounting & Monitoring

Mounts directly in the seat track of a ULD pallet for easy installation and real-time monitoring.

