



Hot Tracker

The leading autoclave-resistant tracker on the market.

Autonomous asset tracker engineered to detect and record washing and autoclaving cycles.

Its watertight design and long-lasting battery life ensures unmatched reliability, making it ideal for tracking surgical trays throughout their loan cycles.



78 x 65 x 33.5 mm (3.07 x 2.56 x 1.32 in)



Washing and Autoclaving Count

Detects and logs washing and autoclaving cycles, operating at temperatures up to 138°C (280.4°F) and pressures up to 3 bars.



Uninterrupted Transmissions

Logs-in data in environments with low connectivity coverage. This guarantees continuous data capture and analysis, even in difficult connectivity situations.



Autonomous Precise Location

With Cellular and Wi-Fi connectivity, location accuracy is precise up to 10 meters. Seamless performance even in the metallic surroundings of surgical trays.



Indoor and Outdoor Tracking

End-to-end visibility of complete asset trajectories.



Long-lasting battery life

Depending on chosen number of location transmissions per day.



Easy Installation

Securely embedded anywhere inside surgical trays.

Even in the toughest environments — from hospital basements to metal enclosures — our trackers deliver. With 94% of transmissions received the same day, including washing and autoclaving events, visibility is there when and where it matters most.



94%

Same-day transmission



87%

Accurate within 100 meters



26m

Median location accuracy

Connectivity

-  **Wi-Fi:** 2.4 GHz
-  **Cellular:** LTE-CAT M1

Location

-  **Wi-Fi:** Wi-Fi access point triangulation.
Accuracy: up to 10m (32.8 ft)
-  **Cellular:** Cell tower triangulation.
Accuracy: up to 1.000m (1093 yards)

Battery

-  **Battery type:** non-replaceable lithium-metal batteries
-  **Battery life:** Long-lasting battery life, depending on chosen number of location transmissions per day.

Installation accessories

-  Stainless steel bracket and rivets (provided)

S-HUB features

-  Map with filtered view options
-  High-temperature cycle count
-  Location and activity history with trajectories
-  Facility-matching
-  Actionable alerts based on location and high-temp activity
-  Share asset and messaging

Mechanics / Design

-  **Dimensions:**
78 x 65 x 33.5 mm
3.07 x 2.56 x 1.32 in
-  **Weight:** 181g / 6.38 oz
-  **Housing:** Biocompatible Radel PPSU
-  **Operating temperature:**
-20 to +138° C
-4°F to +280.4°F
-  **Operating pressure:** up to 3 bars
-  **High-temperature sensor:** detection of washing and autoclaving events. Tracker reports its location with type of high-temperature event and timestamp.
-  **Cellular Antenna:** Internal
-  **Wi-Fi Antenna:** Internal
-  Integrated UHF RFID feature for traceability purpose during manufacturing and logistics stages (902 - 928 MHz)
-  **Flash Memory:** The length of storage is dependent on the chosen number of location transmissions per day. In areas of low connectivity, a tracker configured for 3 transmissions a day will be able to store all the data up to 60 days, after which the 10 oldest days of transmissions will be erased to make room for fresher transmissions.

Orderable Device	FCC ID
SMADE Hot Location Tracker (LC03)	2BLRQLC03LC042K24

Testing

Test type	Objective	Conditions	Results
Shipping tests	To secure attachment during transit.	Multiple shipping scenarios, including air travel.	Tracker remains fastened in mounts.
Drop Test	To verify durability against impact.	Dropped from 1 meter (3.3 ft).	No visible damage; fully operational and remains fixed in its bracket.
Autoclave Cycle Endurance Test	To confirm casing waterproof integrity.	500 autoclave cycles at high pressure.	Maintains waterproof seal.
High Temperature Test	To test functionality at high temperatures.	72 hours at 138°C (280.4°F).	Fully functional post-test.