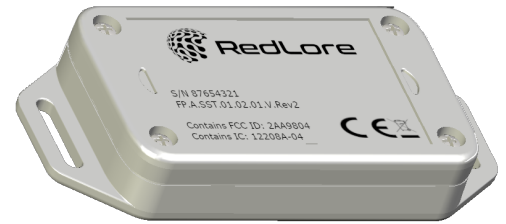


Application

RedLore's Smart Shipment Tracker SST1 enables end-to-end, in-transit, real-time asset tracking. It can be used stand-alone or in combination with Wireless Sensor Devices.

Refer to Smart Shipment Monitoring documentation for details.



Product Variants

	Variants	A	B
Features			
Tracking		✓	✓
Touchless process monitoring		✓	✓
Shock (fall and lateral impact)		✓	✓
Vibration		✓	✓
Tilt		✓	✓
Temperature		✓	✓
Relative humidity		✓	✓
Air Pressure		✓	✓
Tampering		✓	✓
Connects to external sensor devices		✓	✓
Dark Mode: when no connectivity, device logs sensor values for automatic upload when connectivity is restored		✓	✓
Airplane Mode: device shuts off transmitters when in an airplane		✓	✓
Ingress Protection		IP65	IP40

Technical Specifications

Communication	Sensor network	<ul style="list-style-type: none"> • Wirepas Low-Power Mesh • BT5.0, Bluetooth Low Energy (BLE) • Maximum Transmit Power: 4dBm • Transmit frequency: 2.360 to 2.500GHz (unlicensed ISM band)
	NFC	<ul style="list-style-type: none"> • Near Field Communication for interface with Mobile app
	Cellular	<ul style="list-style-type: none"> • Multi-band cellular operation for world-wide operation • Category LTE-M and category NB-IoT • Power class: LTE category M1 / NB1: Class 3 (23 dBm)
Positioning	GNSS	<ul style="list-style-type: none"> • GPS
Power	Battery	<ul style="list-style-type: none"> • Lithium Polymer chemistry • Not classified as Dangerous Goods
	Charging	<ul style="list-style-type: none"> • μUSB 1A 4.35-5.5V (standard USB power)
Mechanical	Ingress Protection	<ul style="list-style-type: none"> • IP40 or IP65 depending on variant

	Dimensions	<ul style="list-style-type: none"> • IP40 variants: 70.4 x 42.2 x 15.5mm (2.8 x 1.7 x 0.6") • IP65 variants: 70.4 x 42.2 x 17.8mm (2.8 x 1.7 x 0.7")
	Weight	<ul style="list-style-type: none"> • 100g
Operating parameters	Temperature	<ul style="list-style-type: none"> • -20 ~ +60°C
Condition Monitoring	Temperature	<ul style="list-style-type: none"> • Range: -25 .. +60°C • Accuracy: ±0.5°C @25°C; ±1°C (0°C..60°C); ±1.25°C (-20°C..60°C); ±1.5°C (-25°C..-20°C) • Optional calibration certification with NIST traceability
	Humidity	<ul style="list-style-type: none"> • Range: 0..100% RH • Accuracy: +/-3% within 20%..80%
	Pressure	<ul style="list-style-type: none"> • Range: 300..1100 hPa • Accuracy: ±1.5 hPa within 25°C..60°C and 900 hPa
	Vibration	<ul style="list-style-type: none"> • Low, medium and high frequency vibrations
	Impact	<ul style="list-style-type: none"> • Fall and lateral impact
	Tilt	<ul style="list-style-type: none"> • Along X, Y, Z axis
	Update rate	<ul style="list-style-type: none"> • Configurable between 1/min and 1/day • Interrupt-based update based on pre-set thresholds
Certifications	Sensor network	<ul style="list-style-type: none"> • Contains FCC ID 2AA9B10. In conformance with Federal Communications Commission (FCC) CFR47 Telecommunications, Part 15 Subpart C "Intentional Radiators". • Contains IC (ISED) 12208A-10. In conformance with Industry Canada (IC) Radio Standards Specification (RSS) RSS-210 and RSSGen. • In conformance with Radio Equipment Directive 2014/53/EU: <ul style="list-style-type: none"> • EN 60950-1: A2: 2013 3.1 (a): Health and Safety of the User • ETSI EN 300 328 V 2.1.1 3.2: Effective use of spectrum allocated • ETSI EN 301 489-1 V2.1.1 & 3.1 (b): Electromagnetic Compatibility • ETSI EN 301 489-17 V3.1.1
	Cellular	<ul style="list-style-type: none"> • PTCRB and GCF approved • Contains FCC ID XPY2AGQN4NNN • Contains IC (ISED) 8595A-2AGQN4NNN
	CE/ROHS	<ul style="list-style-type: none"> • CE certified, ROHS compliant.
	Regulations	<ul style="list-style-type: none"> • Supports US FDA Title 21 CFR Part 11

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