LoRaWAN General Purpose Tracker

SPURO®-X a high-end tracking device with a unique design that enables several mounting options. The development has been done in cooperation with Quectel to ensure best possible tracking performance and ultra-low power consumption. Since the device is built for harsh environments with IP67 rating and a replaceable battery this makes SPURO®-X able to be in operation for many years.

Combined with VestiTechs software its developed to provide services for a variety of industries. This makes SPURO®-X the leading and true multi-purpose device.

VestiTech

VestiTech has more than 30 years' experience of embedded software to build advanced services. The company operated a LoRa network as early as 2010 for tracking Reindeers in the North of Sweden and has since then continued to develop solutions for track and trace. A unique hardware tracker platform SPURO® has been developed together with a state of the art Cloud based service platform to address various business applications.

Products highlights

LoRaWAN® with global frequency support with NFC technology for easy deployment and commissioning.

Multi sensors: GPS, Temperature and Tri-axial accelerometer adds business value.

Simple configuration and firmware updating using mobile application and NFC.

Data retrieval over LoRaWAN or NFC.

Built-in memory to store collected data - no LoRaWAN network access dependency.

Designed for low energy consumption with long-lasting battery lifetime.

Unique battery compartment design enables quick battery change.

Small form factor with re-enforced cover and low weight.

Encapsulated to uphold water resistance to IP67.

High end materials tested to withstand battering, UV radiation and extreme temperatures.

Main Specifications

Connectivity	LoRaWAN, NFC
Main Chip	ARM Cortex - M4
Memory	256 kB + 16 Mb
Power	Max 3,6 V Min 3,1V
Battery	SAFT LS 14500 or equal
Battery Type	Lithium Thionyl Chloride
Battery Lifetime	> 5 years
Antenna	LoRaWAN, GPS and NFC
Size	62 mm x 66 mm x 22 mm
Weight	55 g
Operating temperature	-20 to +85 °C

Standards and certifications

Certifications	CE, FCC, RoHS
Protection Rating	IP67

Warranty

Warranty	1-Year warranty

LoRaWAN

Antenna	Internal
ISM Band	EU868 and US915
Rx Sensitivity	-137 dBm
Max RF output	+14 dBm
LoRa Device Class	A
LoRaWAN Specification	1.0.4 compliant

GPS

GPS	GPS/GLONASS/Galileo/ BeiDou/QZSS
Position accuracy	2,5 meters
Time to first fix	35 seconds
Sensitivity	Tracking: -165 dBm
Assisted GPS	Yes

Accelerometer

Sensor element	Tri-axial
Measurement range	±2g/4g/8g/16g
Sensor identifier	MC3635
Sample Rate	14 -1300 samples/sec