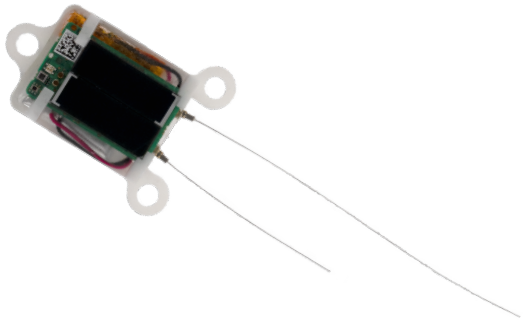
truvami

nomad XS



description

truvami® nomad XS is a powerful and flexible GNSS tracking device that integrates a multi-standard GPS receiver and an accelerometer for motion detection, into one compact device. Location functionality is based on satellite communication. The highly configurable device firmware allows for fine-grained adaptation to a specific use case to optimize performance and battery lifetime.

features

- LoRaWAN® class A compliant device
- dedicated high precision GPS receiver
- accelerometer to detect motion
- rechargable, LiPo battery via charging pads
- integrated light and pressure
- optional gyroscope / magnetometer

applications

- wildlife tracking
- livestock management
- outdoor applications with solar availability

technical specifications

mechanical specifications

weight	8 g
dimensions	30 x 18 x 3 mm
enclosure	epoxy resin

radio / wireless

wireless technologies	LoRaWAN® 1.0.3
LoRaWAN® device type	class A
supported LoRaWAN® features	OTAA, ADR, adaptive channel setup
loRaWAN® receiver sensitivity²	-127 dBm (SF7, 125 kHz) to -141 dBm (SF12, 125 kHz)
LoRaWAN® transmission power²	14 dBm / 22 dBm (depending on region)

operating conditions

temperature	0 – 60 °C
humidity	0 – 95 % RH, non-condensing

expected battery lifetime

1 GPS fix / hour without solar	4-6 days (depending on SF)

power management

rechargeable battery	3.7V, 135 mAh
battery type	lithium polymer
charging	via the charging pads and solar cell

Sensor Specifications

GNSS

receiver	uBlox GNSS receiver with patch antenna
GNSS	BeiDou, Galileo, GLONASS, GPS / QZSS

accelerometer

range	±2, ±4, ±8, ±16
resolution	16 bit
accuracy (typ.)	±20 mg

pressure sensor

absolute accuracy	± 0.5 hPa
relative accuracy	± 0.06 hPa per 10kPa step
range	30 .. 125 kPa

light sensor

range	0 - 65k lux

disclaimer

We reserve the right to make technical changes, which serve to improve the product, without prior notification.

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