

StreamLine

4799 StreamLine LoRa FSK Security Tag with Tamper Strip



See indication of scale below

With its robust, fully sealed enclosure, the 4799 StreamLine LoRa FSK Security Tag with Tamper Strip emerges as the perfect solution for tracking assets subjected to the harshest environmental conditions. This advanced tag boasts a tamper detection strip that enables the module to notify the user if it's dislodged from its affixed surface, ensuring uninterrupted security from the moment of installation. For location tracking the 4799 StreamLine LoRa FSK Security Tag relies on LoRa technology, providing triangulated positioning data where available. While recovering the tag it can be set to transmit close range FSK signals providing accurate positioning.

Key features

General

- Tamper detection strip
- Small size: 57 x 35 x 15 mm
- Lightweight: only 40 grams
- Sealed enclosure offering IP68 protection
- Wide operating range: -20°C ... +60°C
- Multiple watchdog levels for maximum stability
- Event based free configurable module to fit any job
- Remote configurable to fit any job (both firmware and configuration files can be updated/patched over-the-air)
- Supports integration into third party networks

Optional extras

- BLE

Connectivity

- LoRa technology, EU-868 MHz
- Compatible LoRa based solutions such as: private LoRa networks or Helium
- FSK
- RF
- Read DevEUI using NFC

Positioning

- Supported by StreamLine Scanners

Sensors

- 3D accelerometer up to 16 g

Electrical

- 700 mAh battery capacity

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Product summary

The 4799 StreamLine LoRa FSK Security Tag with Tamper Strip, a cutting-edge, fully sealed module designed to track assets with unparalleled durability. Encased within a Polyamide (PA6) container, this module is completely potted in Polyurethane (EH-E83), forming a robust shield against water and dust infiltration, and offering robust resistance to extreme temperatures, impacts, and abrasion. Harnessing FSK technology, this module delivers pinpoint asset tracking capabilities. Users can configure specific zones for the module to identify and transmit the beacon's identifier when it comes into proximity, enabling highly accurate positioning, far surpassing the accuracy of relying solely on LoRa positioning.

This version of the Security Tag is equipped with a tamper detection strip. If the module would be removed from the surface it is attached to it will activate a user defined alarm mode. The alarm mode may for instance be an increase in the time between LoRa messages and a local signal which can be picked up by a StreamLine Scanner.

When ordered in large volumes, the module can be customised to specifications, e.g. adding or removing components. From only the PCBA up to a full solution (with enclosure, settings, special firmware, etc.), please contact your StreamLine products supplier for your project.

Connectivity specifications

- LoRa and FSK
 - Semtech SX 1261
 - Frequency: EU-868 MHz
 - Protocol: LoRaWAN 1.0.2 and custom LoRa protocol, optional Sigfox
 - Transmitting power: Up to +15 dBm
 - Sensitivity: -137 dBm
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Sensors

- Accelerometer
 - Sensitivity: light vibrations of 0,016 g up to movements of 16 g
 - Sensitivity can be adjusted over-the-air
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Operating temperature

Battery operating range: -20°C ... +60°C

Electrical

Standard Li-MnO₂ rated voltage +3 VDC

Nominal capacity 700 mAh

Lasts up to seven years depending on settings

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Optional extras:

- 4798
- Version of this module without tamper detection strip
- May be ordered with ATEX certification
- Click [here](#) to view this product on our site

Indication of scale



Size: 57 x 35 x 15 mm

About StreamLine IoT BV

StreamLine IoT BV is part of a group of companies active in the industry of track & trace module, IoT solutions and internet portal services since 1995.

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