

# StreamLine

## 4798 StreamLine LoRa FSK Security Tag



*See indication of scale below*

With its robust, fully sealed enclosure, the 4798 StreamLine LoRa FSK Security Tag emerges as the perfect solution for tracking assets subjected to the harshest environmental conditions. For location tracking the 4798 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

- 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 with over
- 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
- ATEX certification

#### Connectivity

- LoRa technology, EU-868 MHz
- Compatible LoRa based solutions such as: private LoRa networks or Helium
- FSK
- RF
- 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 4798 StreamLine LoRa FSK Security Tag, 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.

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

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- 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

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- Accelerometer
  - Sensitivity: light vibrations from 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

Storage temperature: max +30°C

## Electrical

Standard Li-MnO<sub>2</sub> rated voltage +3 VDC

Nominal capacity 700 mAh

Lasts up to seven years depending on settings

## Optional extras:

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- ATEX certification
  - The module can be ordered with a certification for use in zone 2 and 22
  - Ask your supplier for information on higher certifications
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## 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.

## Disclaimer

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