StreamLine

4760 StreamLine Model W



See indication of scale below

The 4760 StreamLine Model W is the solution for long term asset tracking. Elevate your asset tracking with the StreamLine Model W. It excels in long-term tracking, offering precision through GNSS. Users can easily configure it over-the-air via LoRa or locally with NFC. Its sealed enclosure protects against a wide range of environmental challenges, from weather conditions to impacts dust and moisture.

Key features

General

- Size 84 x 33 x 23 mm
- Weight 75 gr
- 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

- ATEX certification
- Solar powered (other enclosure)
- High-capacity battery
- Sigfox

Connectivity

- LoRa technology, EU-868 MHz
- Compatible lora based solutions such as: private LoRa networks or Helium
- FSK
- RF
- NFC, write settings and firmware

Positioning

- GNSS
- Supports StreamLine Proximity Detectors

Sensors

- 3D accelerometer up to 16 g

Electrical

- 2000 mAh battery capacity

StreamLine IoT BV
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Product summary

The 4760 StreamLine Model W is a fully sealed module capable of tracking any asset. Made to be highly resistant to outside influences, the module is fully potted. Protecting it against impacts and from the ingress of water or dusts. The module can also optionally be delivered with ATEX certification.
The device is capable of gathering a global position using GNSS. Also, if available from your LoRa provider, LoRa localisation will provide a global position based on triangulation. Users can define an alarm mode with altered behaviours to trigger based on triggers in the settings or a command over-the-air.
The StreamLine Model W has a very long operating life thanks to its high battery capacity and low power consumption. The individual components on the module are only powered when needed, increasing power efficiency. Depending on settings the module can be operational for more than 7 years.

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

Example use cases

Reel monitoring

When installed on a cable reel the module measures up to 360 rotations per minute. Note: with increase of the number of rotations per minute, the power consumption increases as well.



Wheeled waste container tracking

The 4760 StreamLine Model W can track the location of a wastebin and monitor the usages using detected movements.



The waste collecting truck can pick up tag location and identification data using FSK signals to aid in searching for the asset up to 300 metres away. A successful emptying of the waste container is automatically confirmed.



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Connectivity specifications

- LoRa and FSK
- Semtech LR1110
  - Frequency: EU 868 MHz
  - Protocol: LoRaWAN 1.0.2 and custom LoRa protocol
  - Transmitting power: Up to +15 dBm
  - Sensitivity: -148 dBm

Navigation

- GNSS Receiver
- Quectel L76 GNSS (Glonass + GPS + A-GPS + Galileo) module
  - Frequency: L1 1575,42 MHz C/A Code
  - 33 tracking/99 acquisition channels
  - Sensitivity: Acquisition: -148 dBm (typical)
    - Reacquisition: -160 dBm (typical)
    - Tracking: -165 dBm (typical)
  - Position Accuracy: <2,5 m CEP
  - Included internal patch antenna

Sensors

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

Operating temperature

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

Electrical

Standard Li-MnO2 rated voltage +3 VDC
Nominal capacity 2000 mAh

Optional extras:

- ATEX certification
- Customised batches can be certified for use in zone 2 and 22
- Higher certifications may be available, ask your supplier for more details
- Solar charging
- Charging through +5 VDC solar cell (other enclosure)
- Not compatible with ATEX certification
- High-capacity battery
- Increase of battery capacity to 3000 mAh

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Indication of scale



Size: 84 x 33 x 23 mm
Size excluding mounting holes:
57 x 33 x 23 mm

About StreamLine IoT BV

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

Disclaimer

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