

StreamLine

4780 StreamLine Model Y



See indication of scale below

The 4780 StreamLine Model Y is the solution for long-term asset tracking. Elevate your asset tracking with the StreamLine Model Y. It excels in long-term tracking, offering precision through beacon tech, GNSS, and WiFi localization. Simultaneous dual LoRaWAN network operation. Users can easily configure it over-the-air via LoRa or locally with NFC. Its sealed enclosure protects against impacts and from the ingress of water or dust.

Key features

General

- Size 56 x 33 x 12 mm
- Weight 60 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 (other enclosure)
- High-capacity battery (other enclosure)
- Sigfox

Connectivity

- LoRa technology, EU-868 MHz
- Compatible LoRa based solutions such as: private LoRaWAN networks or Helium
- Can operate concurrently on two different LoRaWAN networks
- FSK
- RF
- Bluetooth beacon technology
- NFC, write settings and firmware

Positioning

- GNSS
- WiFi sniffing
- Supports StreamLine Proximity Detectors

Sensors

- 3D accelerometer up to 16 g

Electrical

- 700 mAh battery capacity

StreamLine

Product summary

The 4780 StreamLine Model Y is a fully sealed device capable of tracking any asset. Made to be highly resistant to outside influences, the device is fully potted. Protecting it against impacts and from the ingress of water or dust. Using Beacon technology, the device can forward the identifier of nearby devices. Users can define a missing mode to trigger based on conditions or send a command over-the-air. It can be set up to operate on multiple LoRaWAN networks in the same setting. The device can gather a global position using GNSS or be triangulated using LoRa localisation if available. Equipped with WiFi sniffing, the location can be determined based upon the collected MAC addresses. This enables the user to accurately track the device both indoors and outdoors alike. The StreamLine Model Y has a very long operating life thanks to its high battery capacity and low power consumption. The individual components on the device are only powered when needed, increasing power efficiency. Depending on settings the device can be operational for more than 7 years. Using the recommended security setting the device lasts 3 to 4 years.

When ordered in large volumes, the device 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.

Connectivity specifications

- WiFi Sniffing
 - LoRa and FSK
 - BLE (RF 2.4 GHz)
 - 2,4 Ghz, IEEE 802.11b/g/n – Listen only
 - Semtech LR1110
 - Frequency: EU 868 MHz
 - Protocol: LoRaWAN 1.0.2 and custom LoRa protocol
 - Transmitting power: Up to +15 dBm
 - Sensitivity: -148 dBm
 - Nordic nRF52810
 - Protocol: BLE 5.3 and custom 2,4 GHz
 - Transmitting power: Up to +4 dBm
 - Sensitivity: -96 dBm (BLE)
-

Navigation

- WiFi Sniffing
 - GNSS Receiver
 - 2,4 Ghz, IEEE 802,11b/g/n – Listen only
 - Quectel L76 GNSS (Glonass + GPS + A-GPS + Galileo)
 - 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
-

StreamLine

Sensors

- Accelerometer
 - Sensitivity: light vibrations 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 700 mAh

Optional extras:

- ATEX certification (requires another enclosure)
 - Sigfox
 - High-capacity battery (requires another enclosure)
 - Customised batches can be certified for use in zone 2 and 22
 - Higher certifications may be available, ask your supplier for more details
 - Certification for use on the Sigfox network is possible, ask your supplier for more details
 - A version of this product battery capacity up to 3000 mAh and integrated mounting brackets is available
 - Higher battery capacities may be available, ask your supplier for more details
-

Indication of scale



Size: 56 x 33 x 12 mm

StreamLine

About StreamLine IoT BV

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

Disclaimer

StreamLine IoT BV reserves the right to make changes to any products mentioned here to improve reliability, function, or design without prior notice. StreamLine does not assume any liability arising from the application or use of any product or circuit described here; nor does it convey any license under its patent rights or the rights of others. Any estimated calculations regarding power draw based on settings are meant only as an indication and do not reflect actual operational life. LoRaWAN Certified^{CM} is a mark used under license from the LoRa Alliance[®].



StreamLine IoT BV
The Netherlands
StreamLine-IoT.com
Version 1.3



Click [here](#) to view this product on our site.