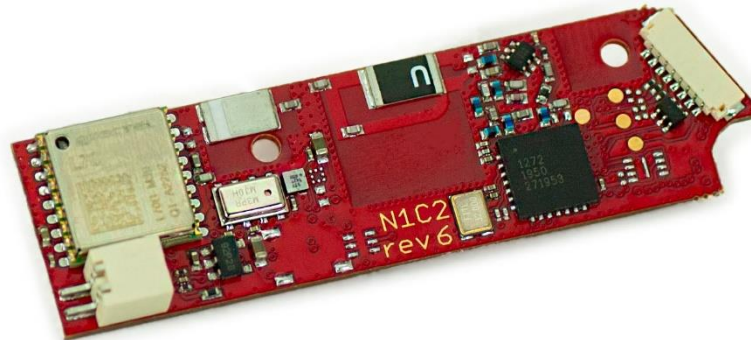


StreamLine

4711 StreamLine LoRa Tag with GPS 868 MHz Industrial



See indication of scale below

The 4711 StreamLine LoRa Tag with GPS 868 MHz Industrial is designed for high customizability and exceptional energy efficiency, catering to diverse purposes. Equipped with multiple onboard sensors that operate without energy consumption when not in use. StreamLine additionally provides a broad selection of optional sensors and enclosures to complement a user's needs.

Key features

General

- Very small: 53 x 15 mm
- Lightweight: 3 grams PCBA only
- 3 LEDs for user interaction
- Configurable button for user interaction
- Wide operating range: -20°C ... +70°C
- Optional temperature resistance: -30°C ... +85°C
- 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
- RC1, Europe and Middle East, 868 MHz

Optional extras

- Humidity sensor accurate up to 2% RH
- Barometer
- Tamper detection strip
- Audible buzzer
- Various enclosures
- Sigfox

Connectivity

- LoRa technology, EU-868 MHz
- Compatible lora based solutions such as: private LoRa networks or Helium
- Proprietary RF
- BLE beacon technology

Positioning

- GPS location
- LoRa localisation where available

Sensors

- Temperature sensor accurate up to 0,5°C
- Accelerometer accurate up to 16 g
- Compass/3D Magnetometer

Electrical

- Various battery or constant power options
- Ultra low power consumption

Connectors

- Extension connector digital and analog I/O

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Product summary

The 4711 StreamLine LoRa Tag with GPS 868 MHz Industrial stands as a highly versatile, event-driven sensor offering numerous default options. Its adaptability in event configurations allows for minimal energy consumption and tailored setups.

Modify timers, thresholds, and sensor utilization remotely, granting flexibility to the module's performance. The module's configurations can be remotely altered when connected to the LoRa network, ensuring seamless adjustments.

The 4711 StreamLine LoRa Tag with GPS 868 MHz Industrial boasts remarkable compactness and lightweight design. These modules can seamlessly integrate into enclosures, optimizing battery capacity, accommodating additional sensors, providing access to onboard LED and button, offering IP65 water resistance, or facilitating secure attachment to solid surfaces.

The module can be customised even further to specification when ordering in large volumes. Ask your StreamLine products supplier for more details.

Connectivity specifications

- LoRa
 - Semtech SX1272 transceiver with onboard antenna
 - Frequency: 868 MHz
 - Protocol: LoRaWAN 1.0.2 and custom LoRa protocol
 - Transmitting power: Up to +20 dBm
 - Sensitivity: -137 dBm
 - BLE (RF 2,4GHz)
 - Nordic nRF51822
 - Protocol: Bluetooth Low Energy and custom 2,4 GHz protocol
 - Transmitting power: Up to +4 dBm
 - Sensitivity: -93 dBm (BLE)
-

Navigation

- GPS Receiver
 - Quectel L70 GPS module
 - Frequency: L1 1575,42 MHz C/A Code
 - 22 tracking/66 acquisition channels
 - Sensitivity: Acquisition -148 dBm (typical)
 - Reacquisition -160 dBm (typical)
 - Tracking -165 dBm (typical)
 - Position accuracy: up to <2,5 m CEP
-

Sensors

- Accelerometer
 - Sensitivity: light vibrations of 0,016 g up to movements of 16 g
 - Temperature sensor
 - Sensitivity can be adjusted over-the-air
 - Set alarm thresholds at specified temperatures
 - Accurate up to 0,5 °C
 - Compass
 - 3D magnetometer for advanced position detection
-

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Operating temperature

- Standard
- -20 ... +70°C

Electrical

- Rated voltage
- Typical power consumption
- +3,6 ... +4,2 VDC
- 100 mA BLE/Sigfox transmission
- 13 uA standby, timer and I/O active

Standard battery connector



Pin	Description
• 1	• VCC, +3,4 ... +4,2 VDC non-rechargeable battery connection
• 2	• Ground

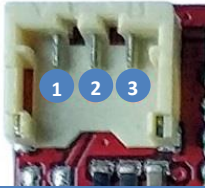
Extension connector



Pin	Description
• 1	• +4,5 ... +5,5 VDC charge input, max 600mA
• 2	• +2,8 VDC power output for external sensors
• 3	• Serial input or digital input (+2 ... +31 VDC for active high) • 50k pulldown • I/O 2
• 4	• Serial or digital output, open collector (max +31 VDC/+10 mA/+100 mW) • I/O 13
• 5	• Analog input (0 ... +1,2 VDC)
• 6	• Digital I/O (0 ... +3 VDC) 1
• 7	• Digital I/O (0 ... +3 VDC) 2
• 8	• GND for charge and I/O

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Optional power connector



Pin	Description
• 1	• VCC, +3,4 ... +4,2 VDC rechargeable battery connection
• 2	• Ground
• 3	• Temperature sensor • Optional: Solar cell connector +5 VDC

Optional enclosures

- Button, 700 mAh battery



- 65 x 34 x 15 mm

- Short Tube, 4,4 Ah battery



- 116 x 38 x 25 mm

- Long Tube, 8,8 Ah battery



- 170 x 38 x 25 mm

- StreamLine High Tube, 8,8 Ah battery



- 134 x 40 x 40 mm

- UFO White, 2,2 Ah battery



- Diameter 90 mm
- Height 20 mm
- Other colours available

Other enclosures may be available when ordering in large volumes. Ask your StreamLine products supplier for more details.

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Optional on-board sensors

- Humidity sensor
 - Sensitivity up to 2% RH
 - Barometer/altitude meter
 - Sensitivity up to 10 cm
-

Indication of scale



Size: 53 x 15 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.

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Version 2.1



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