

StreamLine

4672 StreamLine FSK Base station



See indication of scale below

The 4672 StreamLine FSK Base Station is designed to seamlessly identify nearby familiar FSK signals, capturing the unique identifiers of these beacons. In real-time, it transmits timely updates regarding the current beacon status to your pre-defined server destination. Notably, this system is programmed to issue notifications in cases where any of the recognized modules cease to report within a user-defined timeframe. These capabilities render the module exceptionally adept for various applications, including but not limited to asset management, precise inventory control, effective equipment utilization monitoring, reliable tracking, and robust security enforcement for a multitude of assets within close proximity.

Key features

General

- Size: 120 x 55 x 24 mm
- Wide operating range: -25 ° C ... +85 ° 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
- Supports multi server configuration

Connectivity

- Connects to up to 1000 FSK beacons
- Range up to 300 metres
- LTE Cat M1/NB-2/EGPRS
- NB-IoT
- Nano SIM socket
- Flexible LoRa antenna
- LoRa technology, EU-868MHz
- Compatible LoRa based solutions such as: private LoRa networks or Helium

Positioning

- GNSS

Sensors

- Tamper detection using 3D accelerometer up to 16g)

Electrical

- +8 ... +31 VDC power supply
- Optional back up battery

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Product summary

The StreamLine FSK Base Station is a device which listens to StreamLine FSK Beacons and transmits the Beacon identification to a destination (e.g., Your server). The StreamLine FSK Base Station can be used in a fixed location or in a mobile environment. For instance, installing the StreamLine FSK Base Station in a delivery truck collects the geographical location and identification of StreamLine FSK Beacons.

Assets equipped with a StreamLine FSK Beacon will transmit a unique identification, which when received and decoded by the (mobile) StreamLine FSK Base Station will be forwarded to your application. With the GNSS module in the StreamLine FSK Base Station, location data and StreamLine FSK Beacon data can be matched.

When a StreamLine FSK Beacon identification is received by the Streamline FSK Base Station, a Beacon Attach record will be transmitted. When the Beacon identification is not received for a time longer than the Beacon Disconnect time, a Beacon Detach record will be transmitted. The Beacon Disconnect Time can be set in the StreamLine FSK Base Station settings.

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

- | | |
|----------------|---|
| • Modem | • Quectel BG95-M3 LTE Cat M1/NB-2, GSM Module, all global certifications and R&TTE directives <ul style="list-style-type: none">○ Frequency bands:
GSM: 850/900/1800/1900 MHz
LTE: B1-5, 8, 12, 13,18, 19, 20, 25, 28 |
| • LoRa and FSK | • Semtech SX1261 <ul style="list-style-type: none">○ Frequency: EU 868 MHz○ Protocol: LoRaWAN 1.0.2 and custom LoRa protocol○ Transmitting power: Up to +15 dBm○ Sensitivity: -148 dBm |

Operating temperature

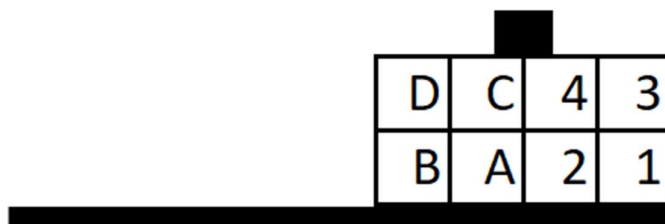
- | | |
|---------------------------|---|
| • Without Li-Ion battery | • -25 °C ... +85 °C |
| • Optional Li-Ion battery | • -20 °C ... +60 °C (discharging)
0 °C ... +45 °C (charging) |

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Electrical

- Power supply
- Charging current
- Power consumption
- Maximum range: +8 VDC...+31 VDC
- Max +450 mA
Higher charging currents on request (with high cap batteries)
- 0,5 mW standby (typical): GPS off, hot start possible. GSM off
Processor monitors timer, watchdog on, brownout detection on
- Power per fix: < 1,3 mAh, including cold start of LTE-M/NB

Extension connector



Pin	Description
• 1	• Ground for VCC and IO
• 2	• +8 VDC... +31 VDC charge input and power supply

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Indication of scale



Size: 120 x 55 x 24 mm



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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

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LoRaWAN Certified^{CM} is a mark used under license from the LoRa Alliance[®].



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Version 2.1



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