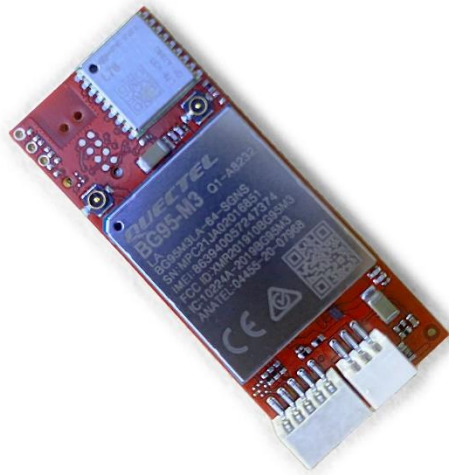


# StreamLine

## 4795 StreamLine Fly First Industrial



*Indication of scale*

The 4795 StreamLine Fly First Industrial module is designed for sustained operation and boasts the added convenience of over-the-air configuration options. Featuring exceptional positioning accuracy, compact dimensions, and seamless compatibility with an extensive spectrum of input voltages, the 4795 StreamLine Fly First Industrial emerges as the optimal selection across a diverse array of IoT applications.

### Key features

#### General

- Very small, only 50 x 22 x 8 mm
- Lightweight: 8 grams PCBA only
- Wide operating range: -30°C ... +85°C
- 1 LED for user interaction
- 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

- eSIM
- 3D accelerometer accurate up to 16 g
- Temperature sensor accurate up to 0.5°C
- CAN-bus

#### Connectivity

- Excellent telecom coverage
- LTE Cat M1/NB-2/GPRS fallback
- Nano SIM socket

#### Positioning

- L76 GNSS, external antenna
- WiFi sniffing, external antenna
- Active GPS

#### Electrical

- Input range +5 ... +55 VDC power

#### Connectors

- External micro coax antenna LTE
- External power connector

# StreamLine

## Product summary

The 4795 StreamLine Fly First Industrial represents an ultralight, unobtrusive solution primed for seamless integration with powered assets. This module integrates using the CAN-bus protocol or a wide array of power solutions. With an input voltage range spanning from +5 VDC to +55 VDC, this module stands as the ideal match for a multitude of applications, ranging from e-bikes to heavy machinery.

Straight out of the box, the StreamLine Fly First Industrial module is equipped with a plethora of connectivity and utility options, including an LTE Cat-M1/NB-IoT modem, GNSS, WiFi monitoring capabilities, Bluetooth Smart (BLE), and integrated sensors for acceleration and temperature monitoring.

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

## Connectivity specifications

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- Mobile data modem
    - Quectel BG95-M3 LTE Cat M1/NB-2, GSM module, all global certifications, and R&TTE directives
      - Frequency bands: GSM/GPRS: 850/900/1800/1900 MHz
      - LTE: B1 ... 5, 8, 12, 13,18, 19, 20, 25, 28
  - WiFi scanner
    - ESP32-PICO-D4
      - Frequency: 2412 ... 2484 MHz
      - Protocol: 802.11 b/g/n (802.11n up to 150 Mbps)
      - Up to 5 BSSID's at a time
- 

## Navigation

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- GPS 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
      - Supports active and passive antennas
- 

## Operating temperature

Standard rechargeable LiPo cell: -30°C ... +85°C

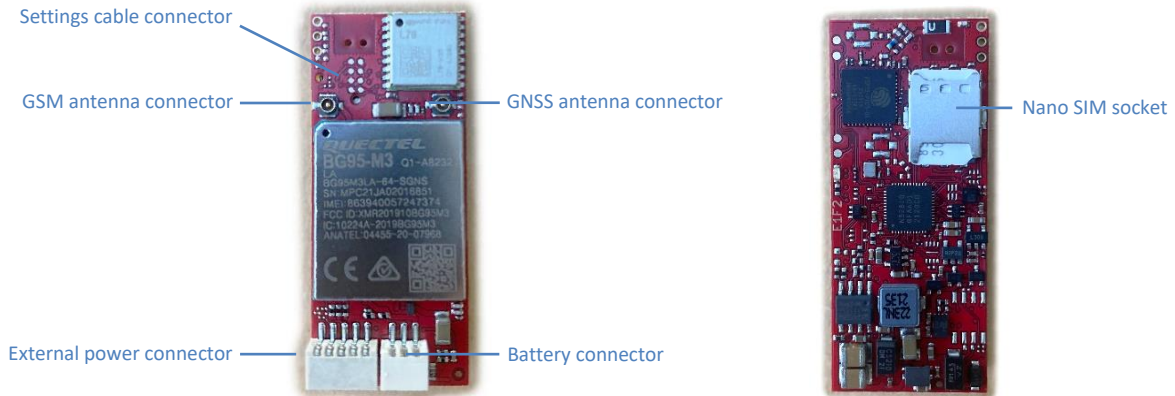
## Electrical

Rated voltage power supply: +5 ... +55 VDC

450 mA max charging current

# StreamLine

## Connectors



Size: 50 x 22 x 8 mm

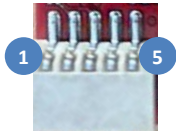
## Battery connector



Pin	Description
• 1	• Temperature sensor
• 2	• Ground
• 3	• VCC, +3,4 ... +4,5 VDC Battery connection

# StreamLine

## External power connector



Pin	Description
• 1	• VCC, Power +5 ... +55 VDC Variance up to 10%
• 2	• CAN Low
• 3	• CAN High
• 4	• Ground for CAN and external power
• 5	• Internal use only

## Optional on-board sensors

- Accelerometer
  - Sensitivity: light vibrations of 0,016 g up to movements of 16 g
  - Sensitivity can be adjusted over-the-air
- Temperature sensor
  - Set alarm thresholds at specified temperatures
  - Accuracy up to 0,5 °C

## 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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