

# StreamLine

## 4675 StreamLine TM LA 2G



*See indication of scale below*

The 4675 StreamLine TM LA 2G is a Track & Trace module designed for use with powered equipment (eg. Vehicles, reefers, machinery). The module is fitted with ports for I/O, serial data, temperature sensors, peripheral power supply and multiple antennas for optimal positioning and communication.

### Key features

#### General

- Robust aluminium enclosure
- Corrosion and scratch resistant anodised finish
- Size: 90 x 67 x 20 mm (excluding SMA-connectors)
- Wide operating range: -40°C ... +85°C
- Multiple watchdog levels for maximum stability
- Event based free configurable module to fit any job with over 300 different events
- Define up to 4000 geozones
- Remote configurable to fit any job (both firmware and configuration files can be updated/patched over-the-air)
- Supports integration into third party networks
- User definable SMS commands

#### Optional extras

- eSIM
- Barometer

#### Connectivity

- 2G/EGPRS
- Quad-band GSM
- Micro SIM socket
- External antenna

#### Positioning

- GNSS, external antenna

#### Sensors

- 3D accelerometer (up to 16 g)

#### Electrical

- Input range +6 ... +31 VDC power
- Output power for peripherals +5 VDC/1A
- Ultra low stand by power consumption

#### Connectors

- Molex (4 pin)
- Molex (24 pin)

#### Interfacing

- Digital and analog
- iButton/1-Wire compatible

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## Product summary

The 4675 StreamLine TM LA 2G is a highly accurate tracking module in a robust aluminium enclosure. Its compatibility with a wide range of external antennas, makes it easy to optimise signal strength for your application (antennas sold separately).

This versatile module empowers users to track assets across any location using GNSS satellite positioning, including GPS, A-GPS, Galileo, and Glonass. In addition to location tracking, it offers asset monitoring capabilities through a temperature and acceleration sensor. Seamlessly connect with external sensors thanks to its multifunctional interfacing features. The 4675 StreamLine TM LA 2G comes equipped with connectors for serial data, analog/digital inputs and outputs, and 1-Wire data interfacing. This feature-rich module allows high-speed data collection from numerous points without requiring a host computer.

Users have the flexibility to power the device either with external power or the backup battery in case of power loss. When external power is restored, the internal battery automatically recharges. In scenarios where the module loses contact with the mobile network, it can store up to 50,000 positions in its internal memory to transmit them once connection is re-established.

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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- GPRS modem
  - Quectel M95 GSM/GPRS module, all global certifications, and R&TTE directives
    - Frequency bands: GSM/GPRS: 850/900/1800/1900 MHz
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## Navigation

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- GPS Receiver
  - Quectel L76 GNSS module: GPS + A-GPS + Galileo + Glonass
    - 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
    - Antenna: Supports active and passive antennas
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## Operating temperature

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- Standard
  - -30°C ... +85°C
  - When charging LiPo cell
  - 0°C ... +45°C
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## Electrical

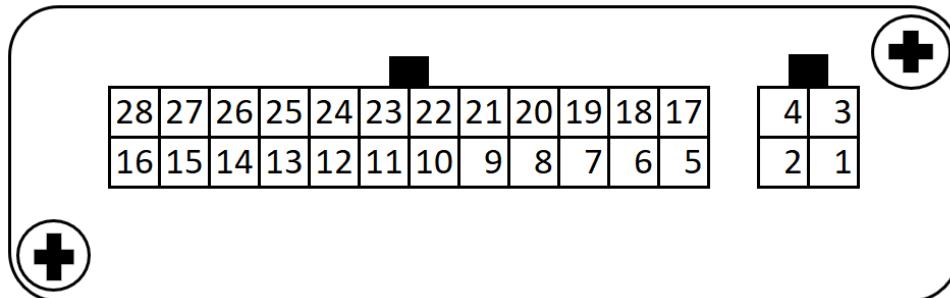
- Rated voltage
- LiPo cell battery charging current
- Peak transmission current
- Typical power consumption
- External power supply +6 ... +31 VDC
- 450 mA
- 2A
  - 20 mA, GPS full power tracking, open GPRS session
  - 100 uA, modem and sensors power down, 4 inputs and 1 timer active

## External antenna connectors



SMA connectors for the mobile data and GPS/ GNSS suited for passive, active and helix antennas. Antennas sold separately, ask your StreamLine products supplier for more details.

## External peripheral connectors



Molex (4 pins)

Pin	Description
• 1	• Ground for VCC
• 2	• +6 ... +31 VDC or VCC Charge input
• 3	• Ground for I/O
• 4	• Digital/Analog Input 5 (0 ... +31 VDC)

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Molex (24 pins)

Pin	Description
• 5	• Out, +3 VDC serial transmit port 1
• 6	• In, +3 VDC serial receive port 1, hardware pulse counter
• 7	• Out, RS232 serial transmit port 2
• 8	• Out, +3 VDC serial transmit port 2
• 9	• Ground for I/O
• 10	• I/O: I/O 1 (+3 VDC) - or RXD4 (e.g. Camera1) - or 1-Wire - or analog input (ADC6) range 0 ... +2,5 VDC
• 11	• Out: I/O 2 (+3 VDC) - or TXD4 (e.g. Camera 1) Note: Connect pins 10 and 11 for 1-Wire operation
• 12	• Out, Open Collector • max +31 VDC/160 mA, protected via polyswitch fuse
• 13	• Out, Open Collector 3 • max +31 VDC/160 mA, protected via polyswitch fuse
• 14	• Ground for I/O
• 15	• Out, Open Collector • max +31 VDC/160 mA, protected via polyswitch fuse
• 16	• Out, Open Collector • max +31 VDC/160 mA, protected via polyswitch fuse
• 17	• Out, RS232 serial transmit port 3
• 18	• Out, +3 VDC serial transmit output 3
• 19	• In, RS232 receive input 3
• 20	• In, RS232 receive input 2
• 21	• VCC, External Supply +3,3 VDC switchable by module
• 22	• Reserved
• 23	• Reserved
• 24	• In, Digital/Analog Input 1 (0 ... +31 VDC)
• 25	• In, Digital/Analog Input 2 (0 ... +31 VDC)
• 26	• Reserved
• 27	• In, Digital/Analog Input 3 (0 ... +31 VDC)
• 28	• In, Digital/Analog Input 4 (0 ... +31 VDC)

## Optional on-board sensors

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

# StreamLine

## Indication of scale



*Enclosure size: 90 x 67 x 20 mm  
(excluding SMA-connectors)*

## 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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