

# StreamLine

## 4658 StreamLine Compact LAR 2G (with Power-I/O Cable and Box)



*See indication of scale below*

The 4658 StreamLine Compact LAR 2G is a specialized Track and Trace module designed for monitoring powered assets. Equipped with internal antennas for connection to both mobile networks and positioning satellites. Its internal battery automatically charges when external power is accessible, ensuring uninterrupted operation even in the absence of external power sources.

### Key features

#### General

- Environmental resistance IP 65
- Size: 120 x 55 x 24 mm
- 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
- User definable SMS commands

#### Optional extras

- eSIM
- Barometer

#### Connectivity

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

#### Positioning

- GPS, internal patch antenna

#### Sensors

- 3D accelerometer (up to 16 g)

#### Electrical

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

#### Connectors

- Molex connector

#### Interfacing

- Digital and analog
- 1-Wire compatible

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## Product summary

The 4658 StreamLine Compact LAR 2G is an exceptionally precise tracking module, delivered with a rugged enclosure for dependable protection against dust and water intrusion. It boasts internal antennas that ensure accurate positioning and reliable data connectivity.

Effortlessly track assets with advanced GNSS satellite positioning technologies like GPS, A-GPS, Galileo, and Glonass. Furthermore, enhance asset monitoring with a built-in temperature sensor and an acceleration sensor. Should you require it, the module offers versatile interfacing options for connecting external sensors. The same interfacing cable can also serve as a power source.

For uninterrupted operation, the 4664 StreamLine Compact LA LTE-M can seamlessly switch to its internal rechargeable backup battery in case of power loss. In situations where network connectivity is unavailable the module can smoothly transition store up to 8,000 positions in its internal memory to transmit them once the connection is re-established.

The module can be customised to specification when ordering in large volumes. Ask your 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 L70 GPS-only 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: <2.5 m CEP
    - Antenna: internal patch antenna
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## Operating temperature

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- Standard
  - When charging backup LiPo cell
  - -20°C ... +60°C
  - 0°C ... +45°C
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# StreamLine

## Electrical

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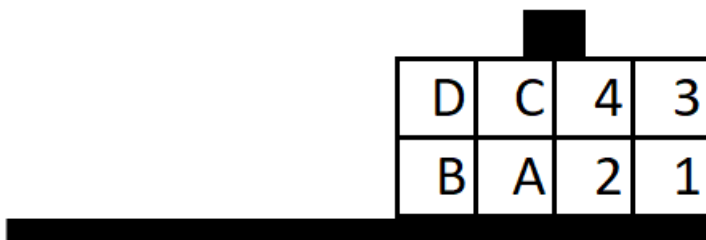
- Rated voltage
  - LiPo cell battery charging current
  - Peak transmission current
  - Typical power consumption
  - External power supply +6 ... +31 VDC
  - +450 mA
  - +2 A
    - +20 mA, GPS tracking
    - +100 uA, modem and sensors power down, 4 inputs and 1 timer active
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##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

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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
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## External peripheral connectors



### Molex connector

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Pin	Description
• 1	• Ground for VCC and IO
• 2	• +6...+31 VDC or VCC charge input and power supply
• 3	• +3 VDC serial Tx4
• 4	• I/O, analog input 3 to 5 (0 ... +35 VDC) optional digital output 3 (+150 mA)
• A	• I/O, +3 VDV serial Rx4 optional analog input 0 ... +1 VDC
• B	• I/O, analog input 1 0 ... +35 VDC digital output #1 (+150 mA)
• C	• Out, optional board voltage +5 VDC max +500 mA
• D	• I/O, analog input 2 0 ... +35 VDC open collector output 2 (+150 mA) TxD2 open collector

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## 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
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## Indication of scale



*Size: 120 x 55 x 24 mm*

# StreamLine

## 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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