

StreamLine

4795D StreamLine Fly First Dipped



See indication of scale below

The 4795D StreamLine Fly First Dipped 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 4795D StreamLine Fly First Dipped emerges as the optimal selection across a diverse array of IoT applications.

Key features

General

- IP 65 protection
- Very small, only 50 x 22 x 8 mm PCBA only
- 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

- Temperature sensor accurate up to 0,5 °C
- eSIM
- External wired antennas

Connectivity

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

Positioning

- L76 GNSS
- WiFi sniffing

Sensors

- 3D accelerometer accurate up to 16 g

Electrical

- Input range +8 ... +55 VDC power
- Input range +5 VDC optional with battery as main source

Connectors

- Original HIGO connector

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Product summary

The 4795D StreamLine Fly First Dipped represents an ultralight, unobtrusive solution primed for seamless integration with powered assets. This module arrives with an authentic HIGO connector, facilitating versatile communication via 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 Dipped 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.

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

- 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, 26, 28, 31, 66, 71, 72, 73, 85, 86, 87, 88
 - 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
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Navigation

- 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
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Sensors

- 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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Operating temperature

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

Electrical

Rated voltage power supply: +8 ... +55 VDC optional +5 VDC with battery as main source
450 mA max charging current

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Optional on-board sensors

- Temperature sensor
 - Set alarm thresholds at specified temperatures
 - Accuracy up to 0,5 °C
 - External wired antennas
 - External wired antenna for the GSM and GNSS networks
 - See the StreamLine-IoT website for an example
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The module can be customised to specification when ordering in large volumes. Ask your StreamLine products supplier for more details.

Indication of scale



*Size: 50 x 22 x 8 mm
excluding cables*

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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 modules, IoT solutions and internet portal services since 1995.

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