

STREAM+

- Integrated IoT Solution
- Optimized for Size, Weight & Power
- Cost Effective

STREAM+ allows end users to send and receive data via the Iridium® Satellite Constellation anywhere on the planet.

The STREAM product line consists of a series of versatile low-cost Iridium transceiver packages that enable end-users with two-way connectivity over the Iridium® Satellite Network anywhere on the planet. STREAM+ simplifies data access by transferring user data to an Amazon Web Service (AWS) file management service. Designed for field applications with size, weight, and power constraints. The STREAM+ offers a range of industry standard protocols, features, and inputs enabling end-users with flexible integration and installation options. This versatility reduces development costs and overall time to market. Powered by the Iridium Certus® 100 midband service and Iridium Messaging TransportSM (IMTSM), the STREAM+ allows users to send and receive files and messages reaching a few megabytes securely, removing the need to worry about intermittent connectivity disruptions.



Key Advantages

- Integrated solutions requiring an IP based connection via satellite
- Allows applications to send larger data amounts in shorter periods of time
- Reduces airtime cost
- Simplified integration for Iridium Certus®
- API provided through serial port, power control & status lines
- Industry standard interfaces lower the overall development cost

STREAM+

MECHANICAL DESIGN

205 mm x 105 mm x 48 mm

620 g

10 Pin Panel Mount, Receptacle, Male Pins. Bayonet Lock Connector

GPS Antenna – Female SMA Connector

Iridium Antenna – Female TNC Connector

Integrated Aluminium Heat Sink

Pressure Equalizing Gore Vent

ELECTRICAL DESIGN

10-40V DC Supply

Protected Open Drain Outputs

30W Supply Power

LED Status Indicator

Automotive Pulse Protected

Safe Shutdown (supercapacitor)

Standby Mode Current 20 mA, at 12 V

Shutdown Mode Current 4.5 uA, at 10-40 V

Transmit & Receive Power 10 W Max Avg, 30 W Max Peak

Data speed 22 kb/s up, 88 kb/s down

FIRMWARE FUNCTIONALITY

Bootloader

Serial Communication

Logging

GNSS

OTA Communication

IMT Support

Low Power Mode

PHYSICAL PRODUCT

uController

Controls file and message transfers

Drives the status lines

Provides a simple JSON API through the serial port

Power Control Line

Allows an external controller to switch the device on/off

Status Lines

Message/File Inbox state

Message/File Outbox state

Hardware Interfacing

RS232 interface

RS485 interface (half-duplex)

Flash Memory

Extra storage for large file transfers

GNSS

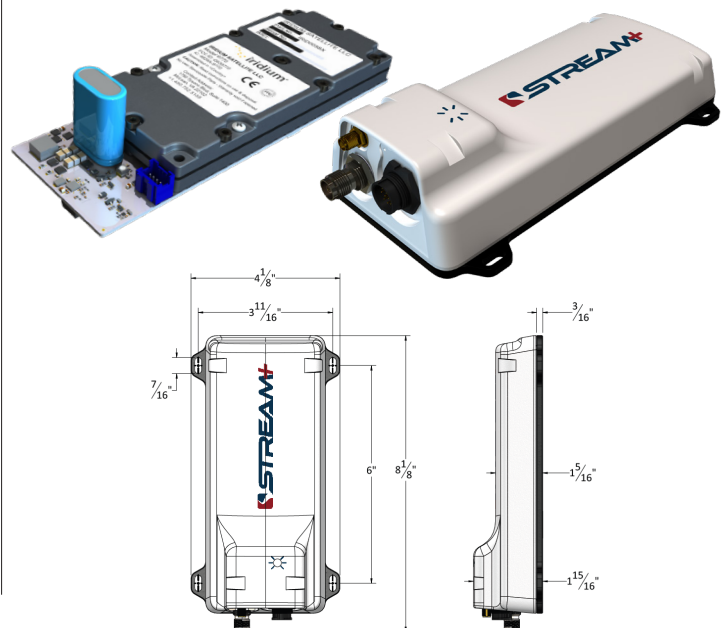
GNSS to support stand alone telemetry solutions

External active antenna

Open drain pulse per second

Iridium Antenna

External passive antenna



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