

STREAM+



2022-11 v1

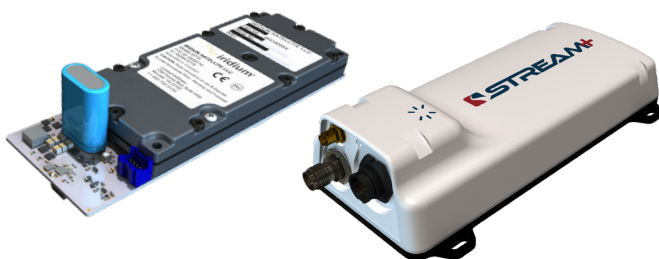
STREAM+ allows end users to send and receive data via the Iridium® Satellite Constellation anywhere on the planet.

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.

STREAM+



- Simplified IoT solution
- Optimized for size, weight & power
- IP-based connection via satellite
- Send larger data amounts, quickly
- API serial port, power control & status lines
- Low development cost
- AWS subscriptions are required only for IMT service utilizing active AWS services



Connected. Everywhere.

STREAM+ TECHNICAL SPECIFICATIONS

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MECHANICAL DESIGN		
Dimensions	L 205 mm x W 105 mm x H 48 mm	L 8.08" x W 4.13" x H 1.88"
Weight	620 g	21.9 oz
Mounting	10 Pin Panel Mount, Receptacle, Male Pins. Bayonet Lock Connector	
Antenna	GPS Antenna – Female SMA Connector	
	Iridium Antenna – Female TNC Connector	
Material	Integrated Aluminium Heat Sink	
	Pressure Equalizing Gore Vent	
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	
Ingress Protection	IP67	
FIRMWARE FUNCTIONALITY	ELECTRICAL DESIGN	
Bootloader	10-40 V DC Supply	
Serial Communication	Protected Open Drain Outputs	
Logging	30 W Supply Power	
GNSS	LED Status Indicator	
OTA Communication	Automotive Pulse Protected	
IMT Support	Safe Shutdown (supercapacitor)	
Low Power Mode	Standby Mode Current 20 mA, at 12 V	
	Shutdown Mode Current 4.5 μ A, 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	

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