SatLink 3 Lite

GOES Logger/Transmitter

The SUTRON SatLink 3 Lite offers a cost-effective solution to log and transmit data over geostationary environmental satellites.

- Integrated geostationary satellite transmitter (NESDIS certified)
- Support for Scheduled and Random (alert) transmissions
- Dual independent and addressable SDI-12 ports (up to 32 sensors connected)
- Dedicated tipping bucket input with automatic resets based on programmable dates
- LinkComm built-in templates for easy sensor configuration
- Secure local access to data and configuration via WiFi and USB with password protection

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The SUTRON SatLink 3 Lite is the latest addition to the SatLink 3 family. It offers a reliable and cost-effective solution for your environmental monitoring needs, for simple applications. It allows measuring, processing, and logging data from smart sensors for up to 1 million readings without any overlap. Its built-in transmitter automatically selects the proper RF power, based on the antenna used, and delivers real-time data over NESDIS GOES 300 and 1200 bps.

Manage your station, perform calibration, troubleshoot issues, and get historical data while on site using the secure integrated WiFi or USB connection.

Real time monitoring is simple using trusted GOES technology

Best-in-class monitoring solution for a wide variety of needs and environments

EXAMPLE APPLICATIONS

- Water level, flow, and precipitation stations
- Water quality stations
- Basic meteorology stations
- Urban flood warning

Designed for environmental monitoring

FULLY COMPLIANT SDI-12 V1.3 DATA RECORDER

DEDICATED PRECIPITATION TIPPING BUCKET INPUT

CALCULATE TOTAL RAIN ACCUMULATION

LOW POWER CONSUMPTION (<2MA QUIESCENT CURRENT)

SatLink 3 Lite has been optimized for most environmental monitoring needs. It supports up to 32 SDI-12 sensors on two independent ports (fully compliant with SDI-12 v1.3 specification). The dedicated tipping bucket input is designed for low power operation and accuracy. The logger supports Modbus Master and Slave modes over RS232.

NOTE: In humid/hostile environments we RECOMMEND installing SatLink in a NEMA 4 enclosure. SUTRON also recommends adding a lightning protection module such as the SUTRON 8111-1113-1 for remote systems.

Data Visualization:
Software as a Service

Hydromet Cloud

Hydromet Cloud provides secure real-time data access from almost anywhere in the world via HydrometCloud.com and the Hydromet Cloud Mobile App. This includes the backend infrastructure to receive, ingest, decode, process, display, and store measurement data from nearly any remote Hydromet monitoring station via a cloud-based data hosting platform.

Accurate timekeeping

BUILT-IN GPS RECEIVER

**MAXIMUM 250MS DRIFT OVER
30 DAYS WITHOUT GPS**

Quick and reliable configuration

**REMOVABLE SENSOR CONNECTOR
HEADERS**
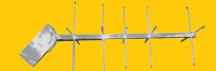
BUILT-IN SENSOR TEMPLATES

**ON-SITE CONFIRMATION OF MESSAGE
CONTENT AND LENGTH**

Easily swap sensors and use built-in templates to configure your station in less than 5 minutes. The configuration tool enables the verification of message content and its fit to the assigned data transmission window without an actual transmission.

Accessories

Part # GEO-ANT-GPS-K2
**Geostationary Antenna with GPS,
mounting bracket, UHF RF cable**

Part # 5000-0155-1
**YAGI GOES Satellite Antenna,
Aluminium**

See SatLink3 ordering guide for a full list of accessories

Software

LinkComm

LinkComm is a program used to view and configure the SatLink 3 Lite.
LinkComm runs on Windows PC, Mac, iPhone/iPad, and Android platforms.

With LinkComm you can:
- View current status and measurement data
- Enter observer values
- Change the setup
- Download and graph the log
- Perform diagnostics (e.g. send a command, set the time)
- Update the device

LinkComm enables you to create and save configurations for every station you manage. Once setup, your station is only a single click away. LinkComm has built-in sensor templates, a powerful dashboard, and an intuitive user interface.

Technical specifications

TECHNICAL FEATURES	METRIC	IMPERIAL
Operating Voltage	9 to 20 VDC	
Operating Temperature	-40 °C to +70 °C	-40 °F to +158 ° F
Weight	0.74 kg	1.7 lbs
Quiescent Current	< 2 mA typ @ 12.5VDC	
RF Output Power	1.25 to 14 W depending on telemetry settings	
RF Output Connector	N-type (F)	
SDI-12 Independent channels	2	
SDI-12 compliance	V1.3 logger	
Tipping bucket	Precip rate and accumulation	
Connections - GPS input	SMA (F)	
Connections - RS-232		
Connections - USB (OTG Device)		
Connections - SDI-12		
RF transmit frequency		
Logging Memory	Up to 1 Million Readings	
Number of Measurements	32	

Certifications

GOES (NOAA/NESDIS)	Certification Standard Version 2.0 GOES 300 bps, 1200 bps, and 1200 bps and CGMS 100 bps
EUMETSAT	HRDCP 1200 bps, SRDCP 100 bps

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