

# SUTRON SatLink 3 Logger/Transmitter in Enclosure, Iridium Modem Card

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| **Product #:** | **SL3-ENC-1-IR** |
| USD Price: | Contact Hach |

SUTRON SatLink3 provides a cost-effective way to measure, log, calculate and transmit data from remote locations around the world. This logging transmitter is well equipped to monitor and transmit up to 32 independent measurements from analog, digital and smart hydrological, meteorological, or environmental sensors, on a user-set schedule or during alarm conditions. The SatLink3 has built-in support for geostationary satellites including GOES, EUMETSAT, INSAT and MTSAT for global operation. Redundant communication and remote configuration are available through optional plug and play cellular and IRIDIUM® modems. Setup over RS232, USB or WiFi is simple, quick and secure with LinkComm software operating on Mac, PC, iPhone and Android. Advanced programing is possible with Python scripting capabilities.

**Built-in geostationary satellite transmitter**
Support for all Geostationary Environmental Satellites including GOES, EUMETSAT, INSAT, MTSAT & CGMS.

**Plug and Play Modem Card**
Reduce modem setup time with automatic modem recognition. These modems are field exchangeable, enabling you to easily move from one telemetry type or Service carrier to another and to keep up with fast moving cellular/telecom technologies (e.g., 3G to 4G). There are 2 plug in slots available on the SatLink3 logger allowing for multiple redundant communication.

**Custom programming with Python Scripts**
Supports applications beyond standard configuration, including custom measurements, transmission formats and user defined computations using modern, easy to learn scripting language with strong and growing developer community.

**Simple and intuitive software**
LinkComm software is usable with all Sutron XLink and SatLink 3 dataloggers, and is a common software that reduces training requirements. It allows simple setup over Wi-Fi using a smart phone, tablet or PC. You can also pair with Hydromet Cloud, a web-hosted software, to access and manage real-time data and alerts.

**Two-way communication and remote configuration (cellular and Iridium)**
Reduce time and cost of visiting field station to check, change or download configuration or turn on/off instruments. All datalogger features and configuration options available remotely via cell or Iridium, improving data access, and data retrieval, if transmissions are missed.

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## Specifications

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| Analog Inputs: | Analog - 4 - 20 ma |
| | Number of inputs: 1 |
| | Range: 0 - 22 mA |
| | Accuracy @ 77 °F (25 °C): 0.02 % |
| | Load: Internal 200 Ω |

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| | Analog - Differential |
| | Number of Inputs: 3 |
| | Range*: ± 39 mV, ± 312 mV, ± 2,5 V |
| | Accuracy @ 77 °F (25 °C): 0,004 % typ |
| | Resolution: 0,298 µV @ ± 2,5 V scale |
| | Analog - Single Ended - Number of inputs: 2 |
| | Range*: 0 - 5 V |
| | Accuracy @ 77 °F (25 °C): 0.004 % typ |
| | Resolution: 0.298 µV |
| Connection Type: | Precision analog reference: 2.5 V, 10.0 mA |
| | Switch 12 V: 1.0 A (2 available) |
| | Protected 12V: 1.0 A |
| | RS485 |
| | GPS INPUT: SMA-F |
| | RS232: DB9 |
| | USB (OTG): USB MICRO AB |
| | USB Host: Type A |
| | microSD: Internal, Expandable up to 32 GB |
| Digital Outputs: | Number of inputs: 2.0 - 15 V, optional low level input |
| | Input type: Status, counter, frequency |
| | Max input frequency: 10 KHz, optional debouncing, internal pull |
| | Number of outputs: 2 |
| | Output types: On/off/pulse. Open collector w/100 ohm limiting resistor. 100 mA, 15 V max" |
| Dimensions: | 15.39 cm x 23.47 cm x 5.08 cm |
| Display: | Not Integrated |
| Frequency: | 401.63 MHz - 402.85 MHz |
| | (depending on satellite type and channel assignment) |
| IP Rating: | IP63 with enclosure |
| Modem: | Iridium |
| Nema Enclosure: | Yes |
| Operating Temperature Range: | -40 - +70 °C |
| Outputs: | 1.25-14 Watts depending on settings |
| Power Consumption: | Voltage: 9 - 20 VDC |
| | Quiescent: # 2 mA typ @12.5 VDC |
| SDI-12 port: | Independent channels: 2 |

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| | Compliance: V1.3 logger |
| | Power: 500 mA max |
| Supported Telemetry: | Geostationary Satellite, Iridium |
| Weight: | 3.1 lbs (1.42 kg) |

## Required Accessories

- SUTRON Geostationary Antenna, GPS  (Item GEO-ANT-GPS)