SatLink3 XMTR Transmitter
SL3-XMTR-1

Description

The SL3-XMTR-1 Transmitter offers a reliable and low-cost method of adding GOES satellite transmission capability to almost any Data Logger. SL3-XMTR transmits the buffer contents of a data logger to one of many Environmental Satellites for which it is certified. Different operating modes are available ranging from logger control of transmitter setup to scheduling the logger to send a buffer to the transmitter using RS-232 or USB connections.

The Transmitter automatically selects the proper RF output power based on antenna selection made by the user. This Transmitter supports the NESDIS GOES 300 and 1200 bps formats as well as formats of other Environmental Satellites orbiting the globe.

The Transmitter itself is built upon Sutron's 35-year legacy of rugged and reliable GOES Satellite Transmitters. The XMTR provides the user with the highest reliability and leading performance metrics coupled with very flexible programming including scheduled and alarm transmissions.   Additionally the transmitter is NESDIS-certified from -40°C to 70°C for all extreme applications demanding long term survivability.

Supported Satellite Communications

- GOES 300 BPS (CS 2.0 Specification)
  - Self Timed
  - Random Transmissions
- GOES 1200 BPS (CS 2.0 Specification)
  - Self Timed
  - Random Transmission
- CGMS INTERNATIONAL 100 BPS
- METEOSAT (MSG 2nd Gen) 100 BPS Self Timed & Alert
- METEOSAT HRDCP 1200 BPS
- GMS/MTSAT 100 BPS
- INSAT (PRBS) 4800 BPS
- INSAT (TDMA) 4800 BPS
- ARGOS/SCD**

**Consult your sales representative on availability.

KEY FEATURES

Size	Very small size (3.8 in. x 6.4 in. x 1.5 in.) (9.7 cm x 16.3 cm x 3.8 cm) for easy installation
NESDIS Certification	NESDIS GOES CS2.0 Certified
EUMETSAT Certification	HRDCP - 1200 BPS, SRDCP - 100 BPS
Cost & Flexibility	Low cost transmitter works with dataloggers from various manufacturers
Data Communications	Serial Communications over USB port or RS-232 ports. Micro-B USB connector on the transmitter designed to be connected to USB Type-A on Windows PC. Sutron provides 'LinkComm' software for handling communications over the USB port.

ADVANCED FEATURES

GUI Interface for intuitive programming (See LinkComm)
Command-line interface for operation without custom programs
Upgrade firmware via USB port
Expanded operating temperature range -40° to +70° C

SPECIFICATIONS	
Specifications subject to change without notice	
GENERAL INFORMATION	
Size	3.8 in. x 6.4 in. x 1.5 in. (9.7 cm x 16.3 cm x 3.8 cm)
Weight	1.6 lbs. (0.73 kg)
Operating Temperature	-40°C to +70°C
Environmental Humidity	0 to 95% Non Condensing
POWER REQUIREMENTS	
Voltage	9-20 VDC, 1.5A transmitting with 1.25W TX power
Quiescent Measuring	<2 mA typ @12.5 VDC
RF OUTPUT POWER	
RF Output Power 100/300/1200/4800 BPS	1.25 to 14 Watts depending on satellite type & antenna
RF Output Connector	N type (F)
Protection against open/short circuit on transmitter loads	
CONNECTIONS	
GPS Input	SMA-(F)
RS-232	DB9
USB	USB Micro-B

OTT netDL, Sutron Xpert, XLite, 8310, etc. Datalogger (or other high power logger)

GPS Antenna

Sutron's SL3-XMTR-1 Transmitter

Satellite Uplink Antenna

*OTT netDL supports GOES and Meteosat only