Multi-Sensor Input Logger with data transmission via Iridium or Cellular

- **Features**
  USB-Host, RS-232, Cellular, Data Logger, RS-232 and RS-485, Switchable SDI-12 power, Iridium

- **Product highlights**
  Plug and play modem, custom programming with Python Scripts (XLlink500), up to 32 measurements, log up to 1,000,000 readings, USB flash drive, secure communication (TLS 1.2 ciphers), multiple interfaces and protocols (HTTP,TCP/IP,FTP), and 3 levels of security to configure, perform maintenance or access data

- **IP-Communication**
  Yes

- **Sensor interfaces**
  SDI-12, RS-232, RS-485

Sutron's XLink product family offers a cost-effective Wi-Fi enabled datalogger with data transmission via Iridium or Cellular. Ideal for use with multiple digital and analog sensors supporting basic or advanced monitoring applications. The product comes in two models tailored to fit different application and budget requirements. The XLink 100 and XLink 500 carry over all the great capabilities from its predecessor family (CDMALink, HSPALink, GPRSLink, IridiumLink).

GENERAL INFORMATION	
Dimensions	
XLink500-1, XLink100-1	Inches: 4.5 x 6.2 x 1.6 (cm: 11.4 x 15.8 x 4.1)

NEMA-4 (IP66)	Inches: 7.3 x 9.5 x 5.2 (cm: 18.5 x 24.2 x 13.2)
Weight (XLink500-1)	1 lbs. (0.5 Kg)
IP rating	IP66 (NEMA variants)
Operating temperature	40 °C to +70 °C (-40 °F to +158 °F)
Compliance	CE, FCC, ISED
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POWER REQUIREMENTS	

Voltage	9-2 0 VDC; 10-16 VDC for SDI-12 Compliance
Quiescent	< 1 mA typ. @12.5 VDC

SDI-12 (DEDICATED INTERFACE)	
Compliance	V1.3 data recorder
Power	500 mA, short-circuit protected
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ANALOG - SINGLE ENDED (XLink 500 ONLY)	
Number of inputs	2
Range*	0-5V
Accuracy @ 25 °C	0.04 % typ. FS
Resolution	0.3 µV
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ANALOG - DIFFERENTIAL (XLink 500 ONLY)	
Number of Inputs	2
Range*	±39 mV, ±312 mV, ±2.5 V
Accuracy @ 25°C	0.04 % typ. FS over 2.5 V
Resolution	0.3 µV @ ±2.5 V scale
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ANALOG - 4-20 mA (XLink 500 ONLY)	
Number of inputs	1
Range	0-22 mA
Accuracy @ 25°C	0.14 % FS
Load	Internal 200 ohms
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DIGITAL - INPUTS/OUTPUTS	
Number of inputs	2
Input type	0-15 V, optional low-level input Status, counter, frequency
Max input frequency	10 KHz, optional debouncing, internal pull
Number of outputs	1

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Output types	On/off/ pulse Open collector w/100 ohm limiting resistor. 100 mA, 15V max
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OTHER INPUTS/OUTPUTS	

Precision analog reference (XLink 500 only)	2 terminals, 2.5 V, 10.0 mA (total)
Switch 12V	1A, 1 port, overloaded protected
Protected 12V (XLink 500 only)	0.75 A, 1 port
RS-485	1 port; SDI-12, ModBus, custom communications with Python
RS-232	DB9; terminal interface, User interface, ModBus, custom communications with Python
USB Device (Micro B)	1 port; PC / MAC communication using Sutron's LinkCOMM
USB Host (Type A)	1 port; setup, firmware update, log download using a USB flash drive
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*	* Nominal. Guaranteed Analog Input Range Over Temperature Is 0–4.98 V, ± 2.49 V, ±311 mV, ±38.9 mV.

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