

# SDS

## Satellite Data, Simplified

[measci.com/iridium](http://measci.com/iridium)



Satellite is the only choice for truly remote locations, when data absolutely must go through. SDS is Satellite Data, Simplified, eliminating expensive engineering to make satellite systems work. An all-in-one module, with a single cable connection, simplified software, and integrated with web-SCADA for a complete package. Be online in minutes, adding satellite as the primary communications method, or pairing with a cellular or radio system as the redundant backup system for critical systems.

### Global

- Utilizing the Iridium SBD network, the only truly global satellite system, with 66 current satellites and compatible with the upcoming Iridium NEXT constellation. If you have a clear view of the sky, you can transmit data

### All-in-one

- All-in-one design for mounting on the top of any platform, with a single cable connection
- Everything included providing **plug & play operation**: weatherproof housing, antenna, and transceiver.
- Supplied with software library for Campbell Scientific dataloggers, reducing programming to a single instruction while still allowing complete customization
- Web-SCADA option for immediate data decoding, viewing, alarming and reporting
- Supports 2-way communications – remotely configure alarm threshold & update intervals!

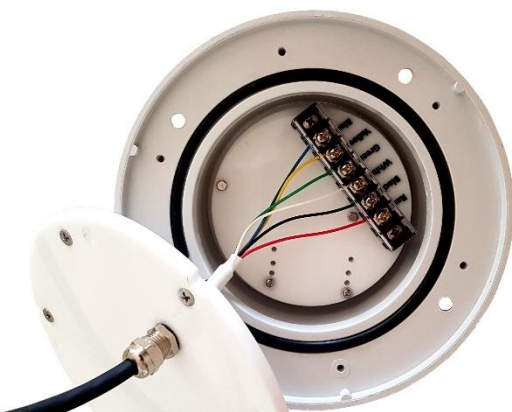
### Simplified Software

- Designed specifically for Campbell Scientific dataloggers “When Measurements Matter”. The SDS is supplied with a software library to simplify previously complex program requirements. No more Hayes AT commands, binary encoding or web API requirements, the data transmission process from station to web has been simplified to 3 simple instructions, i.e.:
  - *Include "CPU:Iridium.DLD"*
  - *Call SetupIridium*
  - *Call SendIridium(IMEI, FloatValues, BinaryValues, Hourly, EventThreshold)*

### Web-SCADA

- No software installation, no web API configuration, can be packaged as a single subscription to easily manage line rental, data transfer and web-SCADA billing. See your location and information within seconds from site, all-in-one plans for as low as USD\$33/month.

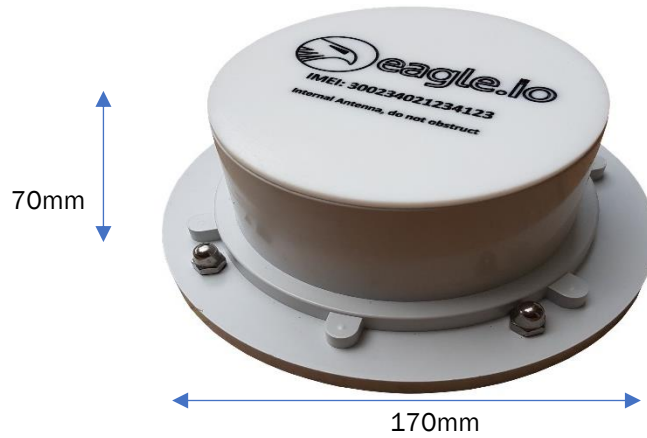
Easy, prewired connection



Preconfigured for Eagle.io



# Specifications



Lightweight for small buoys or drifting platforms  
355g weight

HARDWARE	
Modem	Iridium 9602 SBD Short Burst Data transceiver with internal 1621MHz tuned patch antenna
Digital	Digital outputs for Network Availability (NA) and Ring Alert (RA)
Serial	19,200 baud RS232 serial output (TX/RX/GND)
Cable	Supplied with 3m cable, field replaceable
Mounting	Supplied for mounting on flat horizontal surface and with pole mounting kit included
SOFTWARE	
Functions supported	Software library includes transceiver setup, periodic and event-based SBD message transmission, email reporting to configurable users, 2-way communications for configuration of update interval and alarm threshold, web-SCADA template
Simplified subscriptions	<b>Email</b> (USD\$33/month): Email only data, line-rental, daily summary and 30 monthly event-based alerts (up to 5 points/alert) <b>Basic</b> (USD\$48/month): All the above, plus web-SCADA <b>Power</b> (USD\$90/month): All the above, plus 2-hourly updates and 120 monthly event-based alerts <b>Custom</b> : Any volume of data updates supported with pre-paid credit plans
POWER	
Supply	Wide range 3 to 30V power supply
Consumption	100mA @ 5V average power consumption, max 470mA @ 5V during power up
Switching	Software library designed for periodic and event data transfer, 0mA shutdown, <3min transmission time
CUSTOMIZATION	
Branding	Customizable housing branding and web-SCADA branding options
GENERAL	
Housing	IP68 (sealed against dust and water ingress to immersion of 3m for 30minutes)
Temperature	-40 to +60°C operating temperature, 0-100% humidity
Warranty	1 year, parts & labour, return to base
Country	Australia

Specification are subject to change without notice. A software library and web-SCADA system are provided for ease of use while allowing user customization. Subscriptions paid annually in advance with short-term plans available. Any data transmission above the included subscription charged at USD\$0.10 per update. Reliable operation depends on suitable site selection, correct installation, real time monitoring of data, adequate maintenance and investigation of alarm and diagnostic information. Refer to terms and conditions of sale for full details (<https://www.measci.com/terms.pdf>).

Ideal for buoy monitoring systems, no need for antenna alignment, transmit data from anywhere

