



IRIDIUM

Short Burst Data



DILUPE's new SBD-1100 Short Burst Data System is an intelligent communication device featuring programmable multi-data interfaces including Bluetooth for use in applications that require remote monitoring and control as well as data messaging applications that on average are up to 205 bytes in size via the Iridium SBD Service Network

SBD1100

Typical areas where the SBD-1100 can be found working

- Tracking, systems monitoring and messaging for recreational and commercial marine vessels, and rental fleets.
- Tracking and systems monitoring of mobile assets such as trucks, heavy equipment, public transport and rental fleets.
- Remote monitoring of MMI equipment on oil and gas pipelines
- Remote monitoring of equipment of water, gas and electric utility distribution networks

The SBD-1100 can be used as a stand alone device for SCADA, Remote Monitoring, Tracking and Tracing applications as well it can be connected to a DMT-1500 Mobile Data Terminal with dependable DILUPE designed embedded software allowing for additional 2 way text and emergency messaging abilities.

- Features the 9601 transceiver allowing it to send short burst data via the Iridium Global Network.
- 16 channel GPS receiver allowing for tracking tracing anywhere on the face of the earth as well as position reporting and all GPS functionalities
- Digital and Analog inputs and Digital outputs for monitoring and control
- DMT port for HMI functionality
- CANBUS for remote monitoring and control of vehicle systems and much more
- Bluetooth to communicate with a remote device over the Bluetooth serial link profile
- SD Card can be used for logging of large amounts of data, and software upgrades for the modem or DMT



Short Burst Data: (Available through Iridium Resellers)

The SBD-1100 works via Iridium's Short Burst Data (SBD) service, The SBD data service enables value-added applications to send and receive short data communication fast and efficiently over the Iridium network. The Iridium Satellite network enables SBD to be offered on a global basis through a single network point of presence, and as well is subject to appropriate licensing and governmental regulations.

DILUPE SBD1100



Specifications

Mechanical

Dimensions:	Inches	Millimeters
Enclosure	5.28" L x 4.13" W x 1.36" H	134 L x 105 W x 34.5 H
Mounting plate	4.76" L x 4.92" W x 0.08" H	121 L x 125 W x 2 H
Weight:	1.23 Lbs	560 Grams
Antenna Connectors:		
Iridium	SMA	
GPS	SMB	
Bluetooth	SMA	

RF

Operating Frequency:	1616 to 1626.5 MHz
Duplexing Method:	Time Division Duplex
Multiplexing Method:	TDMA / FDMA
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average

Environmental

	Fahrenheit	Celsius
Operating Temperature:	-4°F to +140°F	-20°C to +60°C
Operating Humidity:	< 75% RH	
Storage Temperature:	-22°F to +176°F	-30°C to +80°C
Storage Humidity:	< 93% RH	

Electronic

Intelligence:	Industry standard 32 bit ARM7 TDMI CPU
Memory:	Up to 256 Kbytes flash memory. Up to 64Kbytes RAM. Up to 256Kbytes EEPROM.
Interface types:	4 Digital inputs 0-30 VDC (3V up = High) 4 Digital outputs source VIN at 1.5 amp 4 Analog inputs 12 bit 0-30 V CANBUS 2.0B up to 1MBaud ISO-11898 DMT 1500 Series data terminal SD Card (Using the MMC (SPI) protocol) Internal Bluetooth. Power Class 1 (Serial port profile)
Power supply:	Switched mode power supply. Wide input voltage. (9-28 V) Software power control for SBD Modem. Software power control for GPS Receiver. Software power control for DMT1500. Software power control for Bluetooth. Software power control for SD CARD.

