SARLink™

DUAL-MODE RESCUE COMMUNICATION DEVICE

SOS

Iridium SOS

406 MHz

406 Distress Signal

As the first hand-held device that combines the global services of the **Iridium Short Burst Data** (SBD), and **Cospas-Sarsat 406 MHz** networks, SARLink offers unprecedented capability within a single hand-held unit. The Iridium-based features include global tracking and two-way messaging services. The 406 MHz Locator Beacon leverages the proven reliability of the Cospas-Sarsat Search and Rescue network used in rescue operations worldwide.

SARLink

Dual mode device that combines the tracking and two-way data communications of the Iridium network with the emergency locator services of the Cospas-Sarsat 406 MHz system

SARLink was developed to meet the requirements of operation in harsh environments. The unit is waterproof to a depth of one meter and is rated at IP-67. Additional environmental testing includes drop, vibration, bump, corrosion, and thermal shock. SARLink is ruggedized to endure the mission of today's lone workers, law enforcement, firefighting, search and rescue, emergency medical, and other emergency service personnel.

SARLink offers a high resolution color LCD Touchscreen where user menu options are displayed as easily recognized icons. The touchscreen allows quick access to user menus and ease of entering text via an on-screen QWERTY keyboard. SARLink incorporates two dedicated batteries; a rechargeable Lithium Ion for Iridium tracking, texting, and distress messaging, and a dedicated Lithium battery for the 406 MHz locator beacon in compliance with Cospas-Sarsat stringent system requirements. In the event that the Iridium battery is depleted, the dedicated 406 MHz battery will provide an independent, 24 hours of distress transmission.

FEATURES:

Distress Messaging

SARLink delivers simultaneous and redundant emergency notification through both the Cospas-Sarsat and Iridium satellite networks when the SOS button is activated. On-board GPS sharing technology allows both alerts to include precise geolocation data.

The two-way communication capability combined with the distress alerting, allows for the verification of the emergency as well as the ability to assist in the rescue by providing detailed information about the nature of the situation.

Tracking

SARLink provides the ability to transmit precise Position Location Information (PLI) data at selectable intervals ranging from once per minute to once per day. Manually activated Check-In is also supported and additional features include the ability to create, save, and send user defined waypoints. SARLink utilizes an open data format protocol and supports 10 byte and 30 byte formats while also including the ability to be remotely configured over-the-air.

Two-way Messaging

SARLink offers two-way satellite messaging through Iridium's network which delivers 100% global coverage free of gaps, fringe or weak signal areas. SARLink can communicate with other mobile devices including cell phones, satellite phones, and other SARLink units using two-way messaging as supported by the client's back-end platform. These messaging options include free-text using the on-board QWERTY keyboard, canned messages, and a combination of free-text and canned messages. Brevity codes are also supported. Contact lists can be pre-defined and canned messages can be scripted by the system administrator and loaded across all devices. SARLink also supports email messaging.

SPECIFICATIONS

Product Number: 2894.1, 2894.2, 2894.3, 2894.4

Mechanical	Dimensions	8.12" x 3.12" x 1.5" (20.6 x 7.9 x 3.8 cm)
	Weight	0.78 lbs (355 g)
	I/O Interface	Mini-USB
	Enclosure	High Performance Engineered Polymer
Environmental	Waterproof Rating	IP-67
	Operating Temperature	-20° to +55°C (-4° to +131°F)
	Storage Temperature	-30° to +70°C (-22° to +158°F)
GPS Receiver	Receiver Type	1575.42 MHz (L1), 50-channel, C/A code
	Accuracy	2.5 m CEP
	Update Rate	4 Hz
	Start-up Times	<1 sec hot start, 29 sec warm start and 29 sec cold start
Iridium	Sensitivity	-160 dBm
	Operating Frequency	1616 to 1626.5 MHz
	Link Margin Downlink	13 dB average
	Link Margin Uplink	7 dB average
	Average Power Transmission	1.0 Watt
	Battery	Rechargeable Lithium Ion
406 MHz Cospas-Sarsat	Frequency	406.040 MHz
	Average Power Transmission	5 Watts
	Battery	Dedicated Lithium for 406 MHz Distress Alerting. Minimum 24 hours of operation
	Battery Replacement	7 Years

Encryption Optional 256 AES available

ACR

Adjustable Tracking

GPS Enabled

Iridium SOS

406 Distress

Global Coverage

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