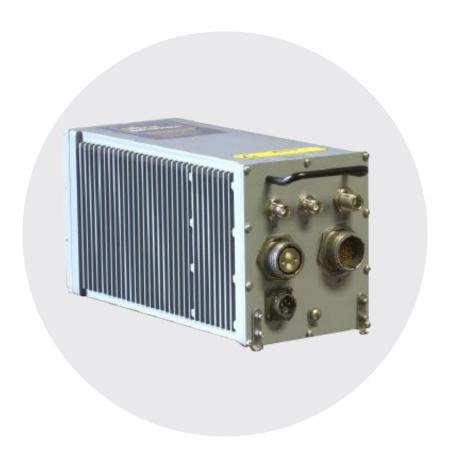
UM SONOBUOYS

SWaP Software Defined Sonobuoy Receiver (SDSR)

Compact, lightweight & versatile sonobuoy receiver



Key features

- Lightweight, compact design profile
- 32 acoustic channels
- Dynamic range of >100 dB
- GPS buoy support
- Comprehensive built-in test
- Automatic Identification System (AIS)
- Field programmable / upgradeable
- Built-in preamplifier

Overview

The SWaP Software Defined Sonobuoy Receiver (SDSR) system is a highly sensitive ruggedized VHF signal receiver designed for military use. This receiver system is designed to meet environmental requirements for ASW platforms.

Optional Shipboard SWaP Configuration

The Shipboard SWaP has the same performance capabilities as the SWaP SDSR with included AC to DC power converter for external AC power supply.

Technical Specification

Ordering Information

6501-0500-001

SWa

2517-0500-001 -

Shipboard SWaP

Shipboard SWaP

The Shipboard SWaP has the same performance capabilities as the SWaP SDSR with included AC to DC power converter for external AC power supply.



Performance

Channels

32 acoustic channels

Dynamic Range

>100 dB

FM Sensitivity

12 dB at -113 dBm (25 kHz bandwidth)

Digital Data Rate

Multiple / Selectable

≤ 0.2% at 100 Hz

Audio Distortion

>140 dB out-of-band rejection

Frequency Response

Flat within 1 dB (0.5 Hz - 20 kHz)

Antenna Support

1

Environmental

Operating Temperature

-40°C to 55°C

Cooling Requirements

Self-cooled (Fan)

Operating Humidity

2% to 95% Non-condensing

Vibration

MIL-STD-810F Compliant

Shock

MIL-STD-810F Compliant

Safety Standard

MIL-STD-810F Compliant

Physical Characteristics General Physical Description

Dimensions- H x W x D

(in) (cm)

Weight - (lbs / kg)

Housing Color

Input & Control

Power Input

Control

SWaP

Conduction cooled chassis

Shipboard SWaP

Conduction cooled chassis

5.84 x 4.88 x 12.96 14.83 x 12.40 x 32.92

5.84 x 10.79 x 12.96 14.83 x 27.41 x 32.92

15 lbs / 6.8 kg

Grey or Custom

22 lbs / 9.98 kg Grey or Custom

POWER REQUIREMENTS

POWER REQUIREMENTS

28 VDC, < 2.2A

115 VAC, 60 Hz, < 2A

Ethernet - 1Gbps

Ethernet - 1 Gbps



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