

# 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  SWaP  
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
Audio Distortion	≤ 0.2% at 100 Hz >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

5.84 x 4.88 x 12.96  
14.83 x 12.40 x 32.92

15 lbs / 6.8 kg

Grey or Custom

### POWER REQUIREMENTS

28 VDC, < 2.2A

Ethernet - 1Gbps

## Shipboard SWaP

Conduction cooled chassis

5.84 x 10.79 x 12.96  
14.83 x 27.41 x 32.92

22 lbs / 9.98 kg

Grey or Custom

### POWER REQUIREMENTS

115 VAC, 60 Hz, < 2A

Ethernet - 1 Gbps



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