



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.

+ SWaP Sonobuoy Receiver Specifications

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

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

115 VAC, 60 Hz, < 2A

Ethernet - 1 Gbps