

SWaP 2.0 Next Generation Software Defined Sonobuoy Receiver

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

6501-0500-002	—	SWaP International
6502-0500-002	—	SWaP International
6505-0500-002	—	SWaP International
6450-0500-002	—	SWaP International
2518-0500-002	—	SWaP Domestic
2517-0500-002	—	Shipboard SWaP

Shipboard SWaP

The Shipboard SWaP has the same performance capabilities as the SWaP SDRS 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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90264A-PDS-SWAP Rev B