

1 ATR Software Defined Sonobuoy Receiver (SDSR)(LCSR)

Light-weight, 19 inch rack-mountable receiver



Key features

- Up to 100 acoustic channels
- Dynamic range of >100 dB
- Supports future sonobuoy formats
- GPS buoy support
- Digital data rates to 320 kbps
- Automatic Identification System (AIS)
- Sonobuoy Positioning System (SPS)

Overview

The 1 ATR Software Defined Sonobuoy Receiver (SDSR) system is a highly sensitive ruggedized VHF signal receiver. This receiver system is designed to meet environmental requirements for advanced multi-mission aircraft (MMA). This SDSR is capable of receiving any mix of passive and active sonobuoy VHF signals concurrently for up to 100 independently selectable RF channels. Our SDSR supports all current NATO sonobuoy formats including GPS buoys. Another key feature of the 1 ATR sonobuoy receiver is the incorporation of Radio Frequency Interference Mitigation techniques. The Acoustic Receiver System can adaptively filter and spatially steer the antenna patterns to mitigate the effects of undesired VHF interference.

Technical Specification

Ordering Information

- 7519-0500-001  VIPR SDSR
- 6449-0500-002  SDSR Quad Ant
- 6229-0500-001  SDSR Single Ant

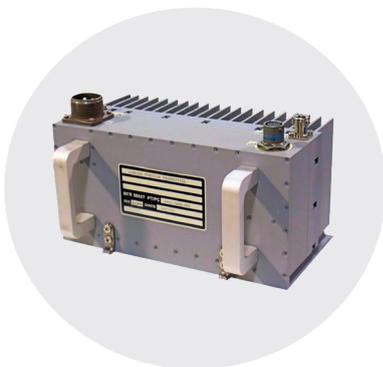


Mission Critical Accessories

Quad External Preamplifier (QEP)
Part No. 5798-8000-001



Command Function Transmitter (CFT)
Part No. 5982-7000-002



Performance

Channels	Up to 100 Channels
Dynamic Range	>100 dB
FM Sensitivity	12 dB at -113 dBm (25 kHz bandwidth)
Digital Data Rate	Multiple / Selectable (At time of order)
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 or 4

Physical Specifications

General Physical Description	1 ATR
Dimensions - Receiver	10.60H x 11.54W x 17.84D (in) 26.93H x 29.31W x 45.31D (cm)
Dimensions - Preamplifier	8.81H x 10.50W x 5.60D (in) 22.38H x 26.67W x 14.23D (cm)
Weight - Receiver	55 lbs / 24.95 kg
Weight - Preamplifier	10 lbs / 4.54 kg ^A
Housing Color	Grey or Custom

Input & Control

Power Input	115 VAC 400 Hz Power
Control	Ethernet (Primary) - 1 Gbps 1553 Data Bus (SPS)

Environmental

Operating Temperature	0°C to 45°C
Cooling Requirements	Self-cooled (Fan)
Operating Humidity	6% to 95% Non-condensing
Vibration	MIL-STD-810F Compliant
Shock	MIL-STD-810F Compliant
Safety Standard	MIL-STD-810F Compliant



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^A- Weight varies by configuration