



## Rack-Mounted Software Defined Sonobuoy Receiver (RaSDSR)

Ruggedized, 4U rack-mounted receiver



### Key features

- 32 acoustic channels
- Dynamic range of >100 dB
- Universal mount
- Supports future sonobuoy formats
- Field programmable / upgradeable
- GPS buoy support

### Overview

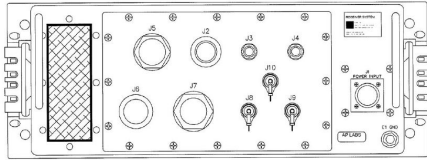
The Rack-Mounted Software Defined Sonobuoy Receiver system (RaSDSR) system is a highly sensitive ruggedized VHF signal receiver. This receiver system is designed to meet environmental requirements for Laboratory or Shipboard use. The system is capable of receiving any mix of passive and active sonobuoy VHF signals concurrently for up to 32 independently selectable RF channels. The Ultra SDR supports all current NATO sonobuoy formats including GPS buoys. Another key feature of the RaSDSR is the universal rack-mounting option. The 4U envelope size fits nicely into a typical software server rack.

# + Rack-mounted Sonobuoy Receiver Specifications

## Ordering Information

6005-0500-001 — RaSDSR

## Panel Layout

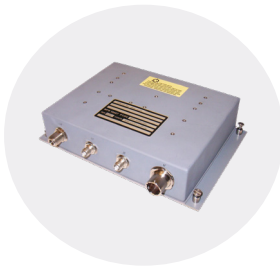


- J1** AC Power
- J2** SEP Power
- J3** SEP Control & BIT
- J4** Amplified RF
- J5** Gigabit Ethernet
- J6** Multipurpose
- J7** Baseband Audio
- J8** CFS/CSG Command
- J9** CFS/CSG Keyline
- J10** Stub Antenna

## Mission Critical Accessories

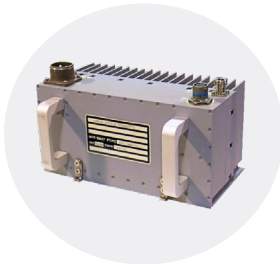
Single External Preamplifier (SEP)

Part No. 6120-8000-001



Command Function Transmitter (CFT)

Part No. 5982-7000-002



## Performance

Channels	32 acoustic channels
Dynamic Range	>100 dB
FM Sensitivity	12dB @ -113 dBm (25kHz 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

## Physical Specifications

General Physical Description	19", 4U rack mount with fans
Dimensions - Receiver	7.00H x 19.00W x 28.00D (in) 17.78H x 48.26W x 71.12D (cm)
Dimensions - Preamplifier	2.25H x 10.50W x 7.12D (in) 5.72H x 26.67W x 18.08D (cm)
Weight - Receiver	47 lbs / 21.32 kg
Weight - Preamplifier	4 lbs / 1.81 kg
Housing Color	Grey or Custom

## Input & Control

Power Input	115-220 VAC, 47-400 Hz Power
Control	Ethernet (Primary)

## Environmental

Operating Temperature	0°C to 50°C
Cooling Requirements	Self-cooled (Fan)
Operating Humidity	2% to 95% Non-condensing
Vibration	MIL-STD-810F Compliant
Safety Standard	MIL-STD-810F Compliant