

# FLIGHTLINE SYSTEMS WIDEBAND RECEIVERS

## SETTING THE INDUSTRY STANDARD

World-class Wideband Software Defined Receiver - for the ultimate in flexibility and performance.

- Excellent reception of very weak signals
- Simultaneous receipt of up to 156 RF signals\*
- Direction Finding Positioning System

## FLEXIBLE, POWERFUL, FUTURE-PROOF TECHNOLOGY

- Airborne, shipboard or lab chassis
- Standalone or card set
- Multiple bandwidths and formats
- Software defined and upgradeable

## COTS

- Single board computer
- Gigabit Ethernet I/O
- Primary power inputs



*Fixed Wing Aircraft*



*Rotary Wing Aircraft*



*Laboratory / Surface Ship*



## EXPERIENCE & RELIABILITY

- 30 Years supporting Global Military
- Airborne, Shipboard, Land-based Platforms
- Integrating with other Missions- AIS, COMINT

## INDUSTRY LEADING SPECIFICATIONS

- Simultaneous receipt of multiple signals
- In sensitivity -113 dBm at 240 kHz bw
- Extremely low audio distortion  
.02 % at 100 Hz
- Dynamic range of > 100 dB
- Digital data rates to 320 kbps
- Flexible

DOCUMENT CONTROL NUMBER  
ASW-wb-WB-DW\_B

\*Quad antenna system only



#### PERFORMANCE

- Channelization to any of 99 RF frequencies
- Continuous Signal Strength reporting
- Outstanding FM sensitivity down to 0.5  $\mu$ V, -113 dBm
- Extremely low Audio Distortion: .02 % at 100 Hz
- > 140 dB out of band rejection
- > 100 dB dynamic range
- Power Consumption - airborne as little as 250 W

#### CONTROL

- Gigabit Ethernet (Primary)
- RS-429 (Option)
- RS-422 (Option)

#### DATA

- 14-BIT Raw Data
- Conforms to STANAG 4283
- Data rate selectable between 52.4 and 104.8 kbps

#### CONFIGURATIONS

- Airborne, shipboard and land based conduction cooled chassis configurations. Dimensions and weight available
- Basic Wideband card set (three cards) provides 16-32 channels
- Optional Wideband card increases basic set to 64 channels
- External preamplifier provides band filtering and low noise amplification of antenna inputs
- Optional Analog DF Module (ADM) provides 10 analog outputs on separate selected channels, and DF antenna signals AM demodulated

#### GENERAL

- Programmable characteristics
- Sets new standards for acoustic receiver baseband noise floor
- Extended acoustic baseband frequency response from 0.1 to 0.45 times the output sample rate yielding superior low frequency response and outstanding infrasonic performance
- Channel signal strength indication in whole dB increments (-40 to -120 dB)
- Field reprogrammable / upgradeable
- Software defined radio architecture
- Comprehensive Built-In-Test (BIT)
- Supplied with control program for integration/operational test