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

*Quad antenna system only

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
PERFORMANCE

• Channelization to any of 99 RF frequencies
• Continuous Signal Strength reporting
• Outstanding FM sensitivity down to 0.5 uV, -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