



## SKY GUARDIAN 2500 COMPACT AND LIGHTWEIGHT ESM

Domination of the electromagnetic spectrum is critical in today's military and para-military world. Understanding what Radio Frequency (RF) transmissions are being used, where they are emanating from, their identity and their purpose is fundamental in achieving domination.

The Sky Guardian 2500 Electronic Surveillance Measures (ESM) is a capable, yet compact system suited to smaller platforms. Following extensive verification and trials, Sky Guardian 2500 has been accepted into service on a number of aircraft in different configurations.

The system accurately measures intercepted radar parameters and uses sophisticated software and hardware signal processing to present vital information to the Operator. It will identify emitters and systems by matching measured data to a pre-loaded, user-controlled, library. Recording of the intercepts can also be commanded for post mission analysis and central database update.

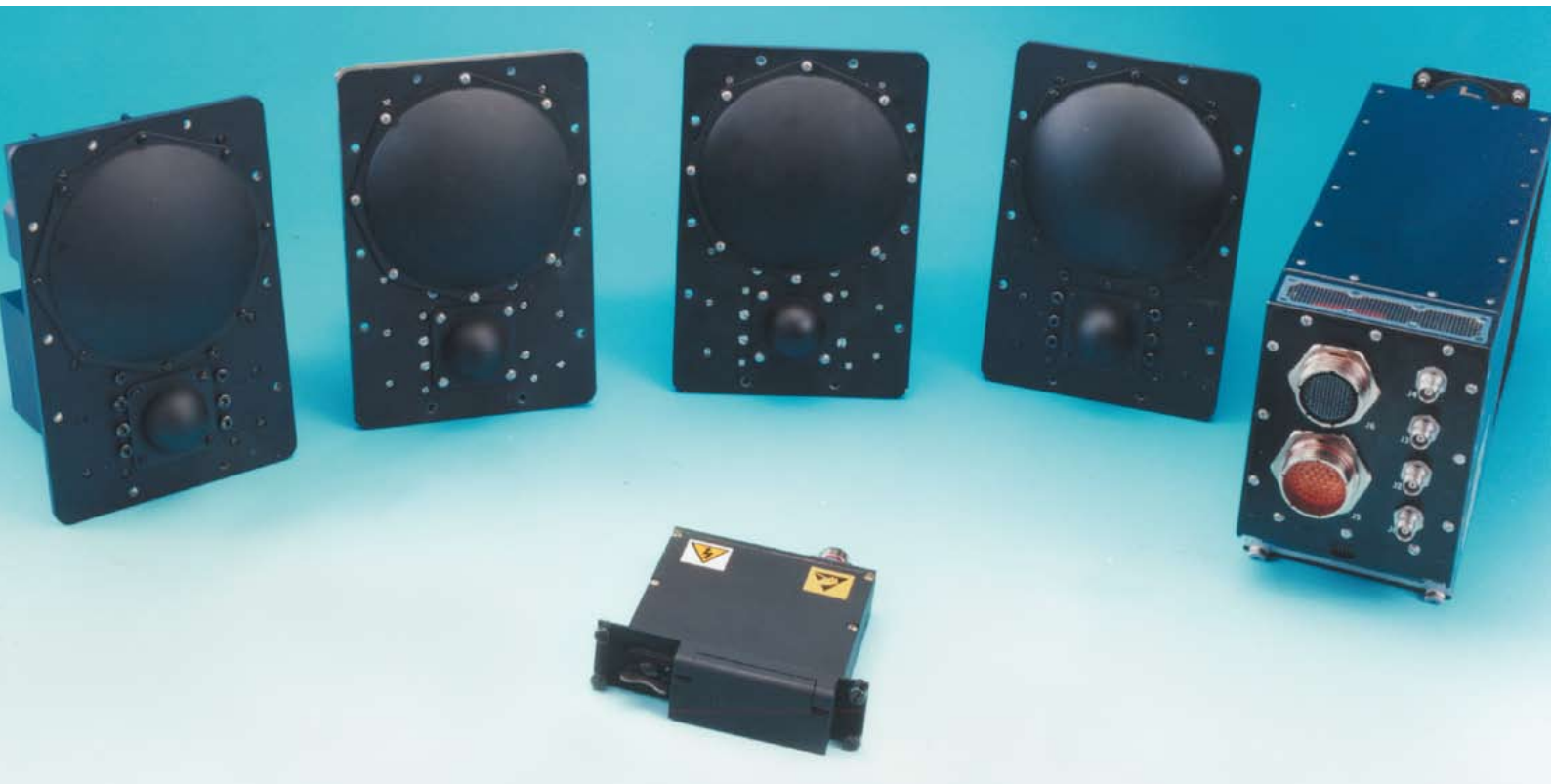
At the heart of Sky Guardian 2500 is a smart programmable Defensive Aids Suite controller (DASc). This can control and co-ordinate Electronic Warfare (EW) sensors and countermeasure systems such as missile and laser warning systems, countermeasure dispensers and active jammers, to form a highly integrated platform protection system.



Compact ESM delivers essential passive surveillance and threat warning capability.

### KEY FEATURES

- C to K band instantaneous cover
- Direction finding capability better than 10° rms
- Library of over 4,000 emitter modes
- User programmable for emitter identification
- Electromagnetic environment recording for post-mission analysis
- Built-in integrated EW suite controller
- Comprehensive service and support.



Compact ESM for small platforms requiring high performance

## TECHNICAL SPECIFICATIONS

RF cover	C to K band
Coverage	360° azimuth; ±45° elevation, depending on installation
Direction finding accuracy	Better than 10° rms Characterises all emitter modes by RF/PRI/PW/Scan and associated agility Records mission and systems status data in-flight
Emitter Library	More than 4,000 emitter modes
Extended capability	Can act as the core of an integrated defensive aids system
Power	28V 8A, 350VA 3F 115V 400Hz
Total weight	23Kg

### Proven Performance

Sky Guardian 2500 is the latest addition to SELEX Galileo well proven range of sensor systems for fixed and rotary wing aircraft. This lightweight equipment provides a powerful ESM capability with a high probability of intercept as well as the ability to provide warnings and initiate counters to threatening systems. It is in service today.

### Modular Architecture

Sky Guardian 2500 detects and identifies all pulsed, Continuous Wave (CW), Interrupted CW (ICW) and Pulse Doppler (PD) radars at long range and in complex RF environments. An ultra broad-band receiver in a digital architecture gives a virtual 100% probability of intercept whilst an advanced digital IFM ensures fast and accurate frequency determination. A separate narrowband-scanning channel provides enhanced sensitivity for interrogation of particular emitters.

### Advanced Tactical Display

Sky Guardian 2500 integrates directly with the SELEX Galileo Seaspray 3600 tactical display processor (TDP) which also processes Forward Looking Infrared (FLIR) data. The TDP uses advanced processing algorithms to provide control and processing for the suite, thus providing aircrew with an unparalleled sensor information system on a single display. Equally the ESM system can be provided with its own control and display capability for integration into the platform.

### Advanced Technology

Mission dependent data is loaded via a PCMCIA memory card port in a data transfer unit which also provides the medium for recording in-flight intercept and system data. The high performance of Sky Guardian 2500 is achieved by using powerful processors and advanced real-time signal measuring and analysis techniques. Use of Monolithic Microwave Integrated Circuits (MMIC) results in a significant reduction in size allowing all the receiving and processing functions to be contained within a single receiver-processor unit.

### Defensive Aids Systems

Sky Guardian 2500 has been designed to perform the core functions of a Defensive Aids System (DAS) manager. All self-protection sensor data is combined in a single 'situation awareness' picture and ensures the optimum selection and management of countermeasures.