



EMB-145



NH90



DIRECTION FINDING (DF) ANTENNA



PROCESSOR UNIT (DETAIL)

ALR-733

ESM
SYSTEM

The **ALR-733 family** of **ESM** systems is designed to provide automatic surveillance, technical signal analysis and data-collection for post-mission analysis. The **ALR-733 family** fulfils the operational requirements of different missions, on board helicopters and aircrafts for maritime patrol applications as well as AEW&C.

This family of airborne ESM systems features solutions that meet the various operational requirements of today's Maritime Patrol Aircraft and Helicopters, Airborne Early Warning (AEW) and Air-to-Ground Surveillance (AGS) aircraft, as well as to manage Situation Awareness needs (for Tactical, SAR and Transport Aircraft) and specific Law Enforcement applications.

SYSTEM HIGHLIGHTS

The **ALR-733 family** modular design (different antenna configuration and optional modules) can provide:

- Full RWR capability
- Fully automatic (hands-off) ESM surveillance (situation awareness)
- Computer-aided ELINT-type analysis under operator control
- Data collection capability.
- Real-time extraction, analysis and tracking of radar signals (no need for a priori scanning criteria)
- Automatic identification and warning of high priority emitters
- Very high Probability of Intercept (100% nominal)
- Very wide RF coverage, from UHF to K (C to J) band, optionally extendable to mmW
- Very accurate monopulse DF
- Pulse, intra-pulse and fine analysis ELINT functions that include measurement of frequency, jitter, stagger, PRF and PRI.
- High quality signal analysis in real-time including Modulation on Pulse (MOP)
- Capability to operate in a very high density scenario without performance degradation
- Capability to operate also with raw data libraries (mission data)

PRODUCT SUPPORT

The **ALR-733 family** is fully supported by a complete set of product support equipment that includes:

- Field test equipment
- Ground support equipment
- Automatic test equipment
- Library programming
- Library loading/unloading

