COMPACT ESM
COMPACT RADAR AND COMMUNICATION ELECTRONIC SUPPORT SYSTEM
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ASELSAN Compact Radar ES System
Radar ES System has the capability of detecting, intercepting, identifying, threat radar electromagnetic emissions and generating “Electronic Order of Battle”.

Radar ES System determines; major (frequency, pulse width, pulse amplitude etc.) and auxiliary (antenna scan, modulation on pulse etc.) radar parameters automatically and creates the emitter list. Each member of the emitter list is automatically identified by comparing emitter parameters with Mission Data File (MDF) / Threat Library. System has the capability of mission recording, tactical recording and intrapulse recording.

Radar ES System Features
- Modular Design
- Multi Receiver Architecture
- Wide Frequency and Spatial Coverage
- High Parameter Measurement Accuracy (RF, PRI, PW, DOA)
- Handling Both Traditional and Emerging Threats
- Automatic Identification of Threats
- Fast System Response
- Operation within a Dense and CW environment
- High Precision Direction Finding
- High Precision Position Fixing with Multi-platforms

ASELSAN Compact Communication ES System
ASELSAN Compact COMINT System submits multi-channel wideband view, automatic detection, direction finding (DF), automatic signal classification, monitoring, recording and wideband/narrowband signal analysis capabilities for threat signals in frequency band of interest. The location information of threat signals sources are acquired by cooperation of multiple Compact COMINT Systems. The results and the records are able to be compiled as report and shared with Comand and Control Systems and other Compact COMINT Systems in the mission network.

Communication ES System Features
- Multi-channel wideband receiver banks
- Spectrum scanning and automatic signal detection
- Detection of fixed frequency, frequency hopping and DSSS signals
- Direction finding (DF) for detected signals
- Location fixing for target signal sources by cooperation of multiple Compact COMINT System
- Multiple Direct Drop Receiver (DDR) channel on wideband receiver channels
- AM, FM, LSB, USB, CW, I/Q signal demodulation
- Automatic parameter extraction for analogue and digital modulated signals
- Automatic modulation recognition for analogue and digital modulated signals
- Demodulation of digital modulated signals
- Multi-channel digital audio and narrowband I/Q record
- Multichannel wideband IF record
- Wideband signal analysis capability
- Narrowband signal analysis capability
- Modulation and protocol analysis for digital modulated signals
- Multifunction digital map platform
- Network construction through TCP/IP based communication systems and remote control capability
- Build in Test (BITE)

Environmental Condition Specifications
- Operating Temperature : -30 °C / +50 °C
- Storage Temperature : -40 °C / + 60 °C
- Humidity Rate : 95 %
- In conformance with MIL-STD-810F, MIL-STD-461 E and MIL-STD-464 A