

C-FLEX ESM

PASSIVE SURVEILLANCE

Electronic Support Measures system in Terma's Naval portfolio is an integrated R-ESM system operated through the C-Flex Mission System.

The Phobos R-ESM is integrated at the tactical data level as a sensor providing system status, emitter (track) information, timing, and other supporting information to the C-Flex for use in consolidating information from all sensors. This is done using a standard TCP/IP interface over the LAN network.

The R-ESM sensor system provides its own HMI to configure, control and monitor its operation with the ESM HMI being launched from the C-Flex system.



Operational Capabilities

- Passive listening/detection/surveillance of battlespace
- Electro-magnetic awareness via frequency analysis
- Threat Warning/Identification via Library

Value of ESM

- Silent detection, classification, and identification of surrounding objects
- Correlation and fusion of ESM data into C-Flex Track Model enriching Situational Awareness (multi-source data fusion)
- Integrated EW Sensor fitted for small and light-weight units
- Deinterleaving & Emitter ID/Library Matching
- Technical display with Pulse Analysis software on CMS system
- Recording of Tracks/Pulse-Descriptor Words (PWD) data / Log-Book
- Embedded tools for ELINT analysis via Pulse Analysis Software

Technical

- Mast Top Unit or split antenna comprised
- Covering the 2-18 GHz RF input frequency range.
- Fast response time (less than 1 sec. from detection to display)
- 360° azimuth coverage
- Up till 4 blanking inputs
- Expansion options (not included):
 - 0.5 - 2 GHz
 - 18 - 40 GHz

