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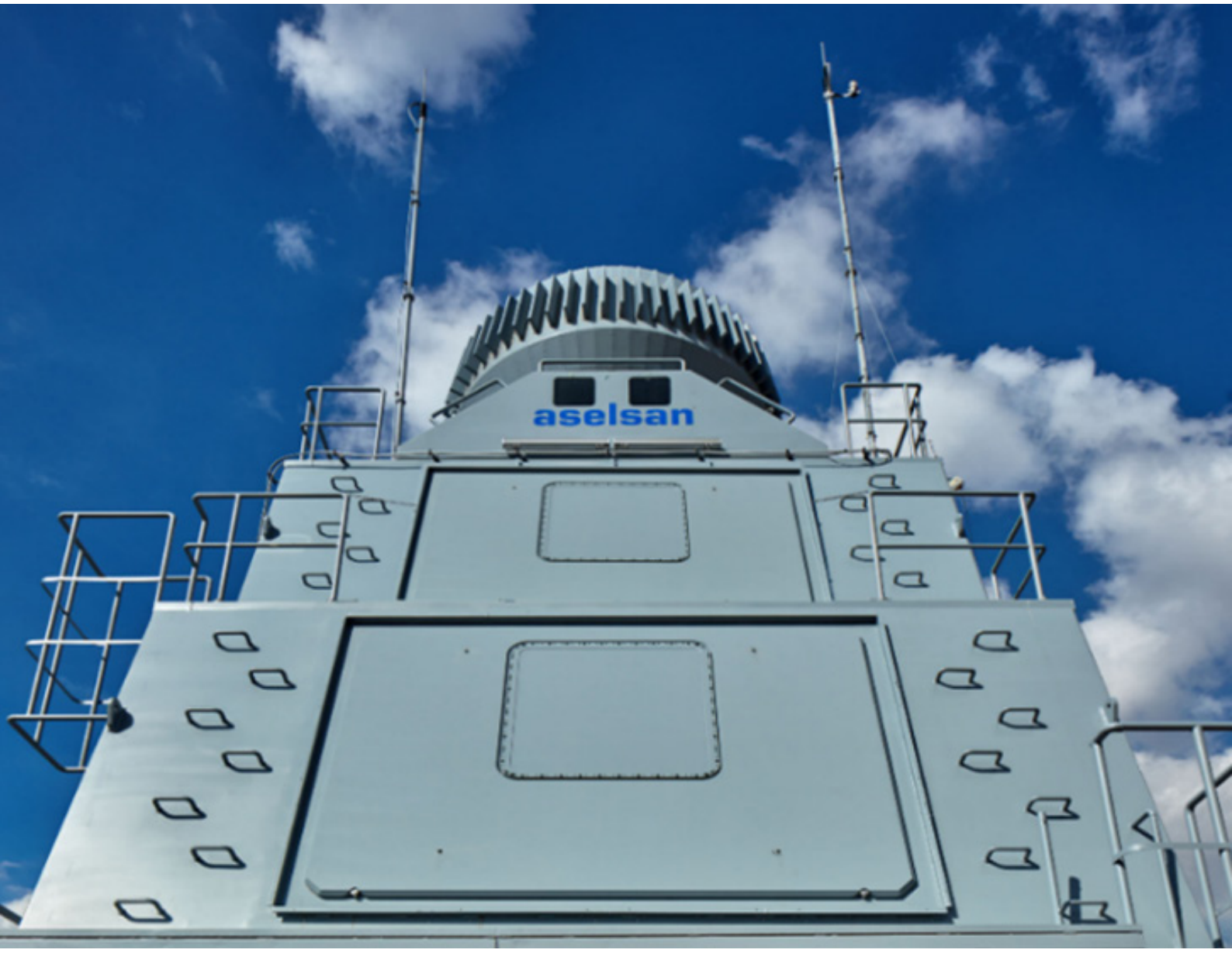
ÇAFRAD

MULTI-FUNCTIONAL RADAR SUITE



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ÇAFRAD

MULTI-FUNCTIONAL RADAR SUITE

ÇAFRAD is a GaN based, 2D AESA radar system that combines innovative solutions with cutting-edge technology. It features solid-state transmit/receive modules, advanced digital signal processing architecture, pulse compression capability, simultaneous multiple target tacking with high accuracy, electronic beam stabilization, short response time, and advanced electronic protection techniques.

The radars that compose ÇAFRAD can be used independently according to the platform's needs. In full configuration, it allows for the creation of detailed air pictures up to long ranges and the simultaneous execution of multiple tasks.

Non-rotating Active Phased Array IFF Antenna
- Mode 1/2/3/C/S/5 interrogation compliant to STANAG 4193
- 450 km instrumented range

Active Phased Array 2D AESA Multi-Function Radar (CFR)
- X-Band
- Volume and horizon search
- Tracking and classification of surface and air targets
- Fast and low RCS sea-skimming target tracking
- Simultaneous target tracking with high accuracy
- 150 km instrumented range
- Track Capacity >1000

Active Phased Array 2D AESA Illumination Radar (AYR)
- X-Band
- Semi-active missile guidance
- 150 km instrumented range

Active Phased Array 2D AESA Long Range Radar (UMR)
- S-Band
- Long range volume search
- Tracking and classification of surface and air targets
- 450 km instrumented range
- Track Capacity > 2000

CAFRAD components can be integrated into a single main mast or can be distributed along the ship's superstructure.

P: +90 (312) 592 10 00 | **F**: +90 (312) 354 13 02 | rehismarketing@aselsan.com