

# BARRACUDA

#### RADAR ELECTRONIC SUPPORT MEASURE

### Your Silent Observer

BARRACUDA, an innovative Radio Direction Finding (RDF) system, leverages advanced technology to excel in the electromagnetic environment, providing early warning capabilities against potential threats. With extensive 360° coverage and a range of 500 km, it adeptly detects and determines target directions using a passive approach, which is ideal for stealth and intelligence gathering. Aligned with Electronic Support Measures (ESM) for safety operations and Electronic Countermeasures (ECM), BARRACUDA proves invaluable in military applications. Serving as a complementary component to existing radar systems, BARRACUDA stands as a dependable early warning system, safeguarding Malaysia's airspace sovereignty.



#### **Key Features**



Receiving signals from radars in all directions within a 500 km radius, including signals from air targets.



Providing a warning system for suspicious/hostile aircraft.



Characterizing the signal of a target and evaluating its shape parameters for comparison with data in the Emitter Library.



Facilitating early actions and ensuring battle readiness.



Identifying the bearing of targets in real-time with a 3° RMS accuracy.



Open architecture design for an integrated environment.



Recognizing the position of incoming targets.

## **Technical Specifications**

Parameter	Specification	
Operating Frequency Range	0.95 – 18 GHz	
Bandwidth of Bearing Analysis	500; 100; 50; 20; 10; 5; 2; 1; 0.5; 0.1 MHz	ы
Bandwidth of Parallel Detection	Entire operating frequency range	ы
Antenna Pattern	360° (6 beams×60° each)	
Detection Range: Surface Target Airborne Target	up to 100 km up to 500 km (LOS)	
<b>Direction Finding Method</b>	Angle of Arrival (AOA)	
Bearing Accuracy	3° RMS	
Numbers of Simultaneous Detection and Identifications	Up to 200	
System Sensitivity	-110 dBW (wideband 500 MHz) -130 dBW (narrowband)	

