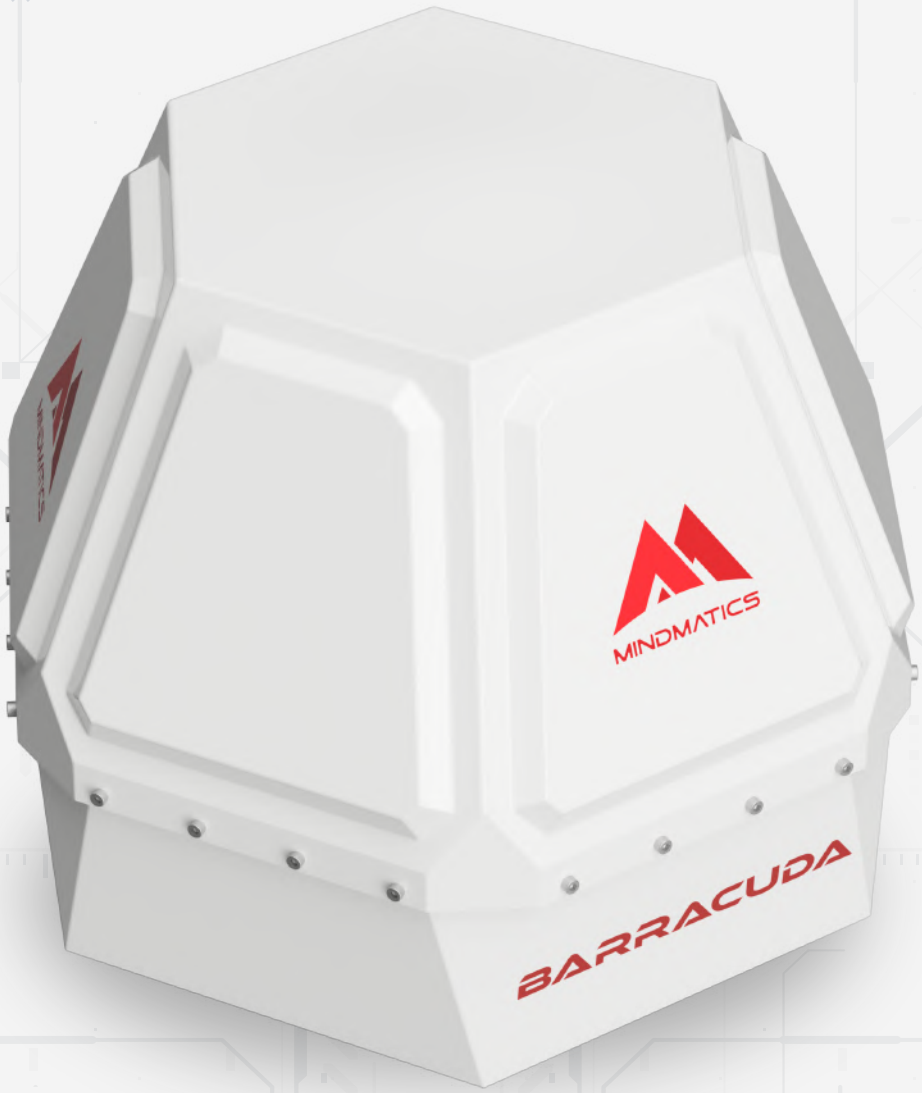
MINDMATICS

BARRACUDA

RADAR ELECTRONIC SUPPORT MEASURE

Your Silent Observer

BARRACUDA is a passive Radar Electronic Support Measures (RESM) system that utilizes advanced technology to perform exceptionally well in the electromagnetic environment, offering early warning capabilities against potential threats. It is capable of scanning and detecting surface and airborne radar platforms up to a distance of 500 km with extensive 360˚ coverage 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.
- Characterizing the signal of a target and evaluating its shape parameters for comparison with data in the Emitter Library.
- Identifying the bearing of targets in real-time with a 3° RMS accuracy.
- Recognizing the position of incoming targets.
- Providing a warning system for suspicious/hostile aircraft.
- Facilitating early actions and ensuring battle readiness.
- Open architecture design for an integrated environment.

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
Bandwidth of Parallel Detection	Entire operating frequency range
Antenna Pattern	360˚ (6 beams×60˚ each)
Detection Range: **Surface Target** **Airborne Target**	 up to 100 km up to 500 km (LOS)
Direction Finding Method	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)

C9-C11,
Jalan TKS 2, Taman Kajang Sentral
43000 Kajang, Selangor

+603-8741 2707
www.mindmatics.com.my