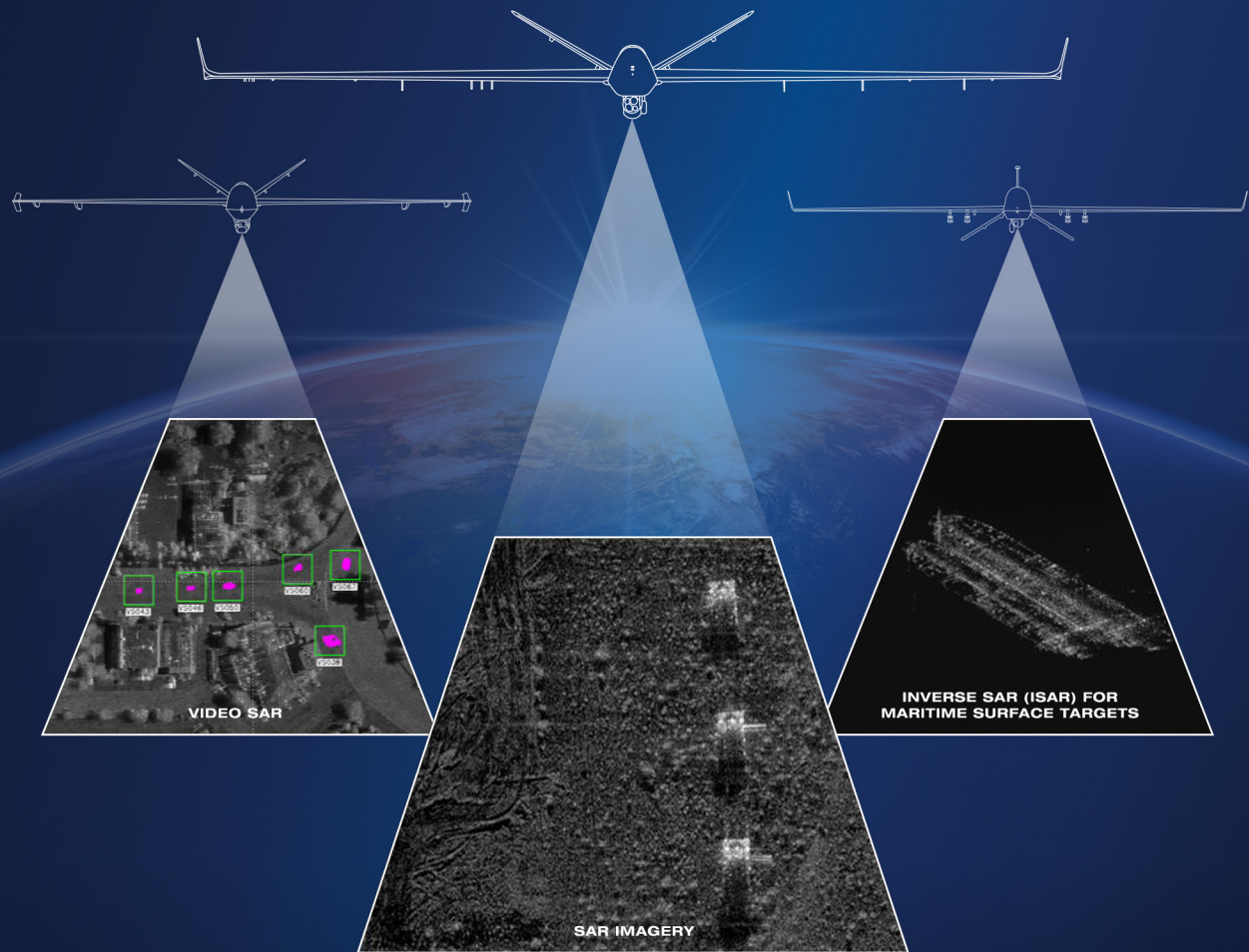




ABOUT US

The world leader in unmanned aerial systems.

We invent and pioneer modern solutions for military, security, governance, environmental operations and more.

We support our customers with the greatest medium-altitude and small unmanned aircraft systems, and cutting-edge mission payload and exploitation technologies.

OUR MISSION

Provide persistent, versatile, affordable airborne surveillance and effects, and turn surveillance data into actionable intelligence.

LYNX®

MULTI-DOMAIN | MULTI-MODE RADAR

General Atomics Aeronautical Systems, Inc.'s (GA-ASI) state-of-the-art **Lynx® Multi-Mode Radar (MMR)** provides next-generation Intelligence, Surveillance, and Reconnaissance (ISR) for crewed and uncrewed aircraft. With capabilities including its Synthetic Aperture Radar (SAR) and Inverse Synthetic Aperture Radar (ISAR), moving target tracking over land and maritime environments, and SAR full-motion video, Lynx enables the aircraft to provide high-resolution precision imagery in the most challenging environments and under adverse weather conditions. Ready for any mission, whether domestic or expeditionary, Lynx provides a bird's-eye view to deliver unmatched situational awareness to the warfighter.

SPECIFICATIONS

TOTAL WEIGHT

< 62 kg (137 lb)

INPUT POWER

28 VDC, 1.9 kW peak, 1.4 kW average

TRANSMIT POWER

360 W peak, 35% duty cycle

FREQUENCY

2-channel Ku-band with 3 GHz bandwidth

COOLING

Operates from -55° to +50°C
(sealed conduction cooling)

FIELD OF REGARD

-5° to -60° El, ±180° Az (configurable)

SAR RESOLUTIONS

Very fine to 3 m

SAR RANGE

Up to 90 km (49 nm)

MTI RANGE

Up to 50 km (27 nm)

MARITIME SURVEILLANCE RANGE

Up to 300 km (162 nm)

ISAR RANGE

Up to 150 km (81 nm)

SAR FULL-MOTION VIDEO RANGE

30 km (16 nm)

ANTENNA GIMBAL SIZE

17.1" (H) x 19.5" (D) – swept volume
inside radome

ELECTRONICS ASSEMBLY SIZE

23.7" (L) x 10.6" (H) x 12.6" (W)

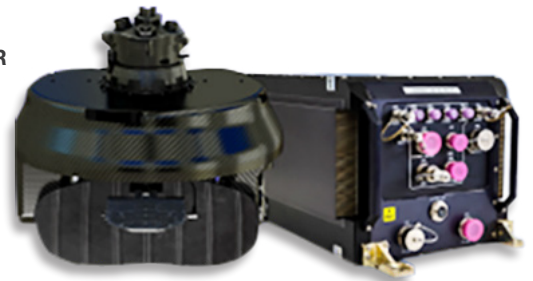
LYNX®

MULTI-DOMAIN | MULTI-MODE RADAR

FEATURES / BENEFITS

- All-in-One Solution: True multi-mission capability from a single low-cost/low-SWAP radar package
- Technical Readiness Level 9: GA-ASI multi-mode radars are fielded on over 600 crewed and uncrewed aircraft
- Ease of Use: Intuitive user interface with mission-centric command and control (C2)
- Lynx supports an open architecture and can be operated as an Open Mission System (OMS) Standard 1.5, Tier 1-compliant capability for C2 and ISR products
- All-Weather Imaging: Generate extremely high-resolution imagery and perform long-range precision geo-location using spotlight, stripmap, and brickmap SAR
- Moving Target Tracking: Detect and track ground movers using dismount moving target indicator and ground moving target indicator modes
- SAR Full-Motion Video: Simultaneously image, detect, and track stationary and moving ground objects from intuitive SAR video for unprecedented situational awareness and geo-location accuracy
- Maritime Surveillance With ISAR Imaging: Quickly detect, track, and classify challenging maritime vessels in blue water or littoral environments
- Processing, Exploitation, and Dissemination: Provide change detection, human-made object identification, and pattern-of-life analysis (compliant with STANAG and NITF data standards)
- Situational Awareness: Artificial intelligence, machine learning-enabled target detection, classification, and automation

MULTI-MISSION RADAR



MARITIME



Maritime Surveillance
With ISAR Imaging

OVER LAND



Moving Target Tracking

SAR Imaging With
Precision Targeting



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SCAN TO LEARN MORE