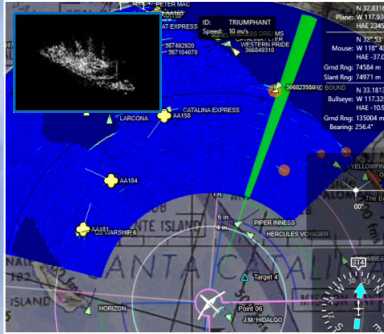




Multi-Domain / Multi-Mission Radar

General Atomics Aeronautical Systems, Inc.'s state-of-the-art Lynx Synthetic Aperture Radar (SAR) provides next-generation intelligence, surveillance, and reconnaissance for manned and unmanned aircraft. Lynx SAR maritime surveillance, SAR and ISAR imaging, and moving target tracking with Moving Target Indicator (MTI) or with SAR full-motion video, enable 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 SAR provides a bird's eye view to deliver unmatched situational awareness to the warfighter.

## MARITIME



Maritime Surveillance With ISAR Imaging

## OVER LAND



Moving Target Tracking

SAR Imaging With Precision Targeting

## 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 500 manned and unmanned aircraft
- Ease of Use: Intuitive user interface with mission-centric command and control
- All-Weather Imaging: Generate extremely high-resolution photographic-like imagery and perform long-range precision targeting using spotlight, stripmap, and brickmap SAR
- Moving Target Tracking: Detect and track ground movers using DMTI and GMTI modes
- SAR Full-Motion Video: Simultaneously image, detect, and track stationary and moving ground objects from intuitive EO/IR-like SAR video with unprecedented situational awareness and target geo-location accuracy
- Maritime Surveillance With ISAR Imaging: Quickly detect, track, and classify challenging maritime vessels in blue water or littoral environments
- Processing/Exploitation/Dissemination: Change detection; automatic manmade object detection; pattern-of-life analysis; compliant with STANAG and NITF data standards
- Situational Awareness: Artificial intelligence/machine learning-enabled target detection, classification, and automation

## 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 VIEW:	-5° to -60° El, ±180° Az (configurable)
SAR RESOLUTIONS:	Very fine to 3 m
SAR RANGE:	80 km (43 nm)
MTI RANGE:	60 km (32 nm)
MARITIME SURVEILLANCE RANGE:	300 km (162 nm)
ISAR RANGE:	150 km (81 nm)
SAR FULL-MOTION VIDEO RANGE:	20 km (11 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)