

Global Small AESA Radar Payloads for UAVs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Small AESA Radar Payloads for UAVs market size is expected to reach \$ 659 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Small AESA radar payloads for UAVs are compact active electronically scanned array radar systems installed on medium and large unmanned aerial vehicles, tactical UAVs, unmanned helicopters, long endurance UAVs and light unmanned aviation platforms. The product focuses on delivering airborne detection, ground imaging, maritime search, moving target indication, collision avoidance, and all weather intelligence, surveillance and reconnaissance under strict limits of size, weight, power consumption and onboard integration space. The category mainly covers compact AESA surveillance radars, small SAR and GMTI radars, multi mode airborne radars, electronically scanned detect and avoid radars, and related radio frequency front end modules used as mission payloads. Core technologies include transmit and receive module integration, gallium nitride or gallium arsenide RF devices, digital beamforming, synthetic aperture imaging, moving target detection, lightweight thermal management, vibration resistant packaging, airborne power adaptation and payload interface integration. Key specifications include operating band, detection range, payload weight, power consumption, antenna aperture, imaging resolution, scan coverage, operating altitude, data link interface and environmental qualification. These products are mainly used in military reconnaissance, border patrol, maritime surveillance, disaster assessment, mapping and remote sensing, and autonomous UAV safety. In 2025, the global average price of small AESA radar payloads for UAVs was about USD 310,000 per unit, global shipment volume was about 1,150 units, and the industry average gross margin was about 38%.

Small AESA radar payloads for UAVs sit at the intersection of advanced defense

electronics and unmanned platform modernization. The upstream supply chain includes RF chips, transmit and receive modules, antenna arrays, signal processors, precision structures, thermal management materials and embedded software. The midstream segment covers radar system design, module integration, signal processing algorithms, environmental testing and airframe adaptation. Downstream demand comes mainly from military UAVs, maritime patrol, border surveillance, emergency mapping, disaster assessment and low altitude safety applications. Compared with electro optical payloads, these radars offer stronger all weather capability, longer range detection and better performance under cloud, rain, smoke, dust and maritime clutter. This makes them difficult to replace in missions involving moving ground targets, sea surface monitoring and persistent surveillance under poor visibility.

Competition is concentrated among a small group of defense electronics companies, while specialized smaller suppliers address MiniSAR, detect and avoid radar, and project based SAR and GMTI payloads. The core barrier is not limited to AESA antenna design. It also includes compact RF architecture, airborne power adaptation, heat dissipation, vibration resistance, SAR and GMTI processing, electromagnetic compatibility and flight qualification experience. Recent product launches, flight tests and platform integration activities are moving the market from light manned aircraft applications toward unmanned platforms. Product development is increasingly shaped by low size weight and power design, gallium nitride devices, software defined radar functions and multi mode mission capability. This structure supports premium pricing, but it also limits the number of qualified suppliers.

Policy and procurement conditions play a decisive role in this market. Defense spending, unmanned combat system development, maritime security, border control and low altitude airspace management all influence buying cycles. Because the product involves export controls, military trade approval and sensitive RF technology, the global supply chain is unlikely to become fully open. Local production and allied supply networks will become more important. Future growth will be driven by wider deployment of medium and large UAVs, replacement of older mission payloads, upgrades toward multi mission unmanned aircraft and selective expansion into high end civil remote sensing. The market is therefore best viewed as a high value, low volume and technology intensive growth segment rather than a mass market sensor category.

This report studies the global Small AESA Radar Payloads for UAVs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Small

AESA Radar Payloads for UAVs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Small AESA Radar Payloads for UAVs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Small AESA Radar Payloads for UAVs total production and demand, 2021-2032, (Units)

Global Small AESA Radar Payloads for UAVs total production value, 2021-2032, (USD Million)

Global Small AESA Radar Payloads for UAVs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Small AESA Radar Payloads for UAVs consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Small AESA Radar Payloads for UAVs domestic production, consumption, key domestic manufacturers and share

Global Small AESA Radar Payloads for UAVs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Small AESA Radar Payloads for UAVs production by Operating Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Small AESA Radar Payloads for UAVs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Small AESA Radar Payloads for UAVs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Leonardo S.p.A., RTX Corporation, ASELSAN A.?, HENSOLDT AG, Thales S.A., Northrop Grumman Corporation, Israel Aerospace Industries Ltd., EMAG Technologies Inc., General Atomics Aeronautical Systems, Inc., IMSAR LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Small AESA Radar Payloads for UAVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Operating Frequency Band, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Small AESA Radar Payloads for UAVs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Small AESA Radar Payloads for UAVs Market, Segmentation by Operating Frequency Band:

L/S/C-band Radar

X-band Radar

Ku-band Radar

Ka-band and Millimeter-wave Radar

Multi-band Radar

Others

Global Small AESA Radar Payloads for UAVs Market, Segmentation by RF Device Platform:

GaN-based RF Platform

GaAs-based RF Platform

Silicon-based RF Platform

Others

Global Small AESA Radar Payloads for UAVs Market, Segmentation by Payload Weight Class:

Micro Payload Class Below 5 kg

Ultra-light Payload Class 5 to 15 kg

Light Payload Class 15 to 30 kg

Compact High-capability Class 30 to 75 kg

Others

Global Small AESA Radar Payloads for UAVs Market, Segmentation by Application:

Military Use

Commercial Use

Others

Companies Profiled:

Leonardo S.p.A.

RTX Corporation

ASELSAN A.?

HENSOLDT AG

Thales S.A.

Northrop Grumman Corporation

Israel Aerospace Industries Ltd.

EMAG Technologies Inc.

General Atomics Aeronautical Systems, Inc.

IMSAR LLC

Meteksan Savunma Sanayii A.?

SpaceForest Sp. z o.o.

Echodyne Corp.

ARTEMIS, Inc.

Beijing Taiyu Xingkong Tansuo Technology Co., Ltd.

Beijing Zhanjiang Technology Co., Ltd.

Shenzhen Luoji Ganzi Keji Co., Ltd.

Key Questions Answered:

1. How big is the global Small AESA Radar Payloads for UAVs market?
2. What is the demand of the global Small AESA Radar Payloads for UAVs market?
3. What is the year over year growth of the global Small AESA Radar Payloads for

UAVs market?

4. What is the production and production value of the global Small AESA Radar Payloads for UAVs market?
5. Who are the key producers in the global Small AESA Radar Payloads for UAVs market?
6. What are the growth factors driving the market demand?

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