

Electronically Scanned Arrays Market By Type (Active, Passive), By Component (Transmit receive module, Phase shifters, Beamforming network, Signal processing, Others), By Range (Short, Medium, Long), By Platform (Land, Naval, Air), By Dimension (2D, 3D, 4D): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The electronically scanned arrays market was valued at \$8.5 Billion in 2023 and is estimated to reach \$16.5 Billion by 2033, exhibiting a CAGR of 7.28% from 2024 to 2033.

An electronically scanned array (ESA) is a type of phased array, consisting of multiple antennas that generate beams and rays of radio waves. These waves are directed toward a specific target without the need to physically move the antennas. ESA systems are commonly used in defense radar applications for scanning radar beams and detecting aircraft and missiles. The global increase in defense spending is a key factor driving the market growth, as many countries focus on modernizing and strengthening their military capabilities to address evolving security threats and geopolitical tensions. This surge in defense budgets is benefiting the electronically scanned array (ESA) market, as advanced radar systems are essential components of contemporary military infrastructure. For instance, in September 2024, the U.S. Air Force granted a contract of \$16.7 million to Northrop Grumman to supply active electronically scanned array (AESA) radar systems for F-16 fighter jets, enhancing the aircraft's capabilities with advanced radar technology.

Governments are investing heavily in upgrading defense systems across various

domains, including air defense, missile defense, naval warfare, and ground-based surveillance. ESAs are integral to these upgrades due to their superior performance over traditional radar systems. Their ability to deliver high-resolution imaging, track multiple targets and rapidly steer beams which play vital role in modern warfare. The growing trend of miniaturization and the deployment of small satellites in Low Earth Orbit (LEO) is driving the growth of the electronically scanned array (ESA) market. Advances in material science and electronic engineering have made it possible to develop compact, lightweight ESAs that can be integrated into small satellites and unmanned aerial vehicles (UAVs). These smaller ESAs are essential for detailed Earth observation, environmental monitoring, and real-time data collection, making them highly valuable for defense purposes. The rising number of small satellite launches and the increasing demand for high-resolution imaging and real-time communication are fueling the adoption of ESAs.

The electronically scanned array market is segmented into type, range, platform, component and region. On the basis of type, the market is bifurcated into active and passive. On the basis of range, the market is classified into short, medium and long. On the basis of platform, the market is divided into land, air, and navy. On the basis of component, the market is divided into transmit receive module, phase shifters, beamforming network, signal processing and others. On the basis of dimension, the market is divided into 2D,3D and 4D. Region wise, the electronically scanned array market is analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Russia, Italy, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

The key players operating in the market include electronically scanned arrays market players, such as Lockheed Martin Corporation, Israel Aerospace Industries, Thales Group, BEL, Northrop Grumman, Saab AB, Raytheon Technologies, Mitsubishi Electric, Aselsan SA, Hensoldt, Telephonics Corporation, Leonardo S.P.A. and Blighter Surveillance Systems Limited.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the electronically scanned arrays market analysis from 2023 to 2033 to identify the prevailing electronically scanned arrays market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the electronically scanned arrays market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global electronically scanned arrays market trends, key players, market segments, application areas, and market growth strategies.

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Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Additional company profiles with specific to client's interest

Import Export Analysis/Data

Product Consumption Analysis

Key Market Segments

By Component

Transmit receive module

Phase shifters

Beamforming network

Signal processing

Others

By Range

Electronically Scanned Arrays Market By Type (Active, Passive), By Component (Transmit receive module, Phase s...

Short

Medium

Long

By Type

Active

Passive

By Dimension

2D

3D

4D

By Platform

Land

Naval

Air

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

ASELSAN

Bharat Electronics Limited (BEL)

Blighter Surveillance Systems Limited

HENSOLDT

Israel Aerospace Industries

Leonardo S.p.A.

Lockhead Martin Corporation

Mitsubishi Electric Corporation

Northrop Grumman

RTX

Saab AB

Telephonics Corporation

Thales

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