

Global Satellite Star Sensor Processing Board Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Satellite Star Sensor Processing Board market size is expected to reach \$ 264 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

Satellite star sensor processing board are dedicated space grade electronics boards installed inside a star tracker or paired with a star tracker optical head to support high accuracy spacecraft attitude determination. They perform image acquisition, detector readout control, star centroid extraction, star pattern recognition, onboard star catalog matching, quaternion calculation, data buffering, interface communication, autonomous status monitoring, and fault detection. The main product forms include image acquisition boards, detector readout boards, star identification processing boards, attitude computation boards, electronic units, processing electronics modules, and compact integrated processing modules for small satellite star trackers. Core technologies include radiation tolerant or high reliability circuit design, CMOS or CCD detector interfaces, FPGA and DSP based parallel processing, embedded star catalog management, low noise signal acquisition, thermal and electromagnetic compatibility design, spacecraft bus communication, and autonomous lost in space and tracking algorithms. Key specifications usually include attitude accuracy, update rate, power consumption, mass, interface protocol, radiation tolerance, operating temperature, limiting magnitude, reacquisition capability, reliability level, and compatibility with satellite attitude determination and control systems. The product is mainly used in low Earth orbit remote sensing satellites, communication satellites, navigation satellites, scientific spacecraft, deep space probes, small satellite constellations, and commercial space platforms. In 2025, global shipments of satellite star tracker processing boards are estimated at about 8,600 units, with an average industry price of about 16.6 K USD/unit and an average gross margin of about 45%-55%.

Satellite star sensor processing board sit between space optical sensing hardware and spacecraft attitude determination systems. Their role is to turn raw star field images into usable attitude information through image acquisition, star extraction, catalog matching, and quaternion calculation. The upstream supply chain includes radiation tolerant semiconductors, CMOS or CCD detectors, FPGA and DSP devices, memory, power management chips, space grade connectors, and high reliability printed circuit boards. The midstream is led by star tracker manufacturers, space electronics module suppliers, and selected satellite platform companies that integrate hardware, embedded algorithms, calibration procedures, and environmental qualification. Downstream demand comes from remote sensing satellites, communication satellites, navigation spacecraft, scientific missions, deep space probes, and commercial small satellite constellations. As spacecraft platforms become smaller, more standardized, and more frequently produced, the value of this product is increasingly defined by processing architecture, onboard algorithms, star catalog management, radiation tolerance, and proven in orbit reliability rather than by bare board manufacturing alone.

The competitive landscape is developing along two parallel tracks. High reliability missions require long flight heritage, radiation hardening, strict thermal stability, robust reacquisition performance, and strong mission assurance, which keeps entry barriers high and the supplier base relatively concentrated. Small satellite and constellation programs, by contrast, emphasize lower power consumption, lower mass, faster delivery, and more cost effective integration, which is pushing processing electronics toward compact, modular, and production friendly designs. Industry consolidation, commercial space investment, product refresh cycles, and greater standardization of satellite platforms are gradually moving star tracker electronics from a purely project based aerospace component model toward a more repeatable commercial component supply model. Even so, qualification cycles remain long, customers are conservative, and mission failure risk gives proven suppliers a clear advantage.

Policy and supply chain factors are becoming more important to market development. Space infrastructure, sovereign remote sensing capability, secure communications, and domestic satellite component supply have become strategic priorities in many regions, supporting localized production of star tracker electronics, radiation tolerant components, and attitude determination subsystems. Future demand will be supported by continued deployment of commercial constellations, higher redundancy requirements, more complex deep space and scientific missions, and broader use of small satellite platforms. At the same time, the market faces natural limits: star tracker prices are falling in batch procurement, processing boards are increasingly integrated

into compact star tracker assemblies, some satellite platform companies are developing in house capabilities, and multi sensor fusion may reduce the value of standalone electronics in certain applications. Overall, this remains a small but technically demanding segment with steady growth, high qualification barriers, and stronger long term prospects in missions that require reliable autonomous attitude determination.

This report studies the global Satellite Star Sensor Processing Board production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Satellite Star Sensor Processing Board 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 Satellite Star Sensor Processing Board that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Satellite Star Sensor Processing Board total production and demand, 2021-2032, (Units)

Global Satellite Star Sensor Processing Board total production value, 2021-2032, (USD Million)

Global Satellite Star Sensor Processing Board production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Satellite Star Sensor Processing Board consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Satellite Star Sensor Processing Board domestic production, consumption, key domestic manufacturers and share

Global Satellite Star Sensor Processing Board production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Satellite Star Sensor Processing Board production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Satellite Star Sensor Processing Board production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Satellite Star Sensor Processing Board 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 Sodern SAS, Jena-Optronik GmbH,

Leonardo S.p.A., Terma A/S, BAE Systems, Inc., Rocket Lab USA, Inc., Blue Canyon Technologies LLC, Redwire Corporation, arcsec N.V., AAC Clyde Space AB, 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 Satellite Star Sensor Processing Board 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 Type, 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 Satellite Star Sensor Processing Board Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Satellite Star Sensor Processing Board Market, Segmentation by Type:

Standalone Processing Boards

Separated Electronic Units

Integrated Optical Head Electronics

Compact Processing Modules

Custom Flight Electronics Assemblies

Others

Global Satellite Star Sensor Processing Board Market, Segmentation by Radiation Hardness Level:

Rad-Hard / Class-Q (?100 krad(Si))

Rad-Tolerant / Engineering Grade (30?100 krad(Si))

COTS-Based / Non-Rad-Hard (60 arcsec)

Others

Global Satellite Star Sensor Processing Board Market, Segmentation by Application:

Earth Observation Satellites

Communication Satellites

Navigation Satellites

Others

Companies Profiled:

Sodern SAS

Jena-Optronik GmbH

Leonardo S.p.A.

Terma A/S

BAE Systems, Inc.

Rocket Lab USA, Inc.

Blue Canyon Technologies LLC

Redwire Corporation

arcsec N.V.

AAC Clyde Space AB

CubeSpace Satellite Systems RF Pty Ltd

TY-Space Technology (Beijing) Ltd.

Solar MEMS Technologies S.L.

KAIROSPACE Co., Ltd.

VECTRONIC Aerospace GmbH

Voyager Technologies, Inc.

Chang Guang Satellite Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Satellite Star Sensor Processing Board market?
2. What is the demand of the global Satellite Star Sensor Processing Board market?
3. What is the year over year growth of the global Satellite Star Sensor Processing Board market?
4. What is the production and production value of the global Satellite Star Sensor

Processing Board market?

5. Who are the key producers in the global Satellite Star Sensor Processing Board market?

6. What are the growth factors driving the market demand?

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