

Global Edge-AI Sensor Fusion Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Edge-AI Sensor Fusion Robots market size is expected to reach \$ 11472 million by 2032, rising at a market growth of 16.3% CAGR during the forecast period (2026-2032).

In 2025, global Edge-AI Sensor Fusion Robots production reached approximately 0.15 million units, with an average global market price of around US\$ 25,000 per unit. Annual production capacity is 0.19 million units. Gross Profit Margin: 41%. Edge-AI Sensor Fusion Robots are advanced robotic systems that integrate multiple heterogeneous sensors (such as cameras, LiDAR, radar, thermal, and acoustic sensors) with edge-based artificial intelligence to perform real-time perception, data fusion, and decision-making directly on the device without relying on cloud processing. Upstream includes AI chips and multi-modal sensors; midstream focuses on robot manufacturing and system integration; downstream covers industries like energy, manufacturing, and infrastructure where robots are deployed for inspection and automation. The market will be driven by real-world deployment and data capabilities, with companies that combine edge AI, sensor fusion, and industry-specific solutions gaining the strongest competitive advantage.

This report studies the global Edge-AI Sensor Fusion Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Edge-AI Sensor Fusion Robots 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 Edge-AI Sensor Fusion Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Edge-AI Sensor Fusion Robots total production and demand, 2021-2032, (K Units)

Global Edge-AI Sensor Fusion Robots total production value, 2021-2032, (USD Million)

Global Edge-AI Sensor Fusion Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Edge-AI Sensor Fusion Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Edge-AI Sensor Fusion Robots domestic production, consumption, key domestic manufacturers and share

Global Edge-AI Sensor Fusion Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Edge-AI Sensor Fusion Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Edge-AI Sensor Fusion Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Edge-AI Sensor Fusion Robots 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 ABB (SIX: ABBN, Switzerland), Siemens (XETRA: SIE, Germany), General Electric (NYSE: GE, USA), Honeywell (NASDAQ: HON, USA), Schneider Electric (EPA: SU, France), Teledyne Technologies (NYSE: TDY, USA), Cognex (NASDAQ: CGNX, USA), FANUC (TSE: 6954, Japan), Yaskawa Electric (TSE: 6506, Japan), KUKA (ETR: KU2, Germany), 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 Edge-AI Sensor Fusion Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Edge-AI Sensor Fusion Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Edge-AI Sensor Fusion Robots Market, Segmentation by Type:

Vision + LiDAR Fusion

Vision + Radar Fusion

Vision + Thermal Fusion

Multi-sensor Fusion (Camera + LiDAR + Radar + Acoustic, etc.)

Global Edge-AI Sensor Fusion Robots Market, Segmentation by Level of Autonomy:

Tele-operated

Semi-autonomous

Fully Autonomous (Edge-AI driven)

Global Edge-AI Sensor Fusion Robots Market, Segmentation by Deployment Mode:

Edge-only (on-device AI)

Cloud-connected

Hybrid (Edge + Cloud)

Global Edge-AI Sensor Fusion Robots Market, Segmentation by Application:

Industrial Enterprises

Government / Public Sector

Companies Profiled:

ABB (SIX: ABBN, Switzerland)

Siemens (XETRA: SIE, Germany)

General Electric (NYSE: GE, USA)

Honeywell (NASDAQ: HON, USA)

Schneider Electric (EPA: SU, France)

Teledyne Technologies (NYSE: TDY, USA)

Cognex (NASDAQ: CGNX, USA)

FANUC (TSE: 6954, Japan)

Yaskawa Electric (TSE: 6506, Japan)

KUKA (ETR: KU2, Germany)

DJI (Private, China)

Siasun Robot & Automation (SZSE: 300024, China)

Hikrobot (SZSE: 002415, China)

UBTECH Robotics (HKEX: 9880, China)

EFORT Intelligent Equipment (SSE: 688165, China)

Key Questions Answered:

1. How big is the global Edge-AI Sensor Fusion Robots market?
2. What is the demand of the global Edge-AI Sensor Fusion Robots market?
3. What is the year over year growth of the global Edge-AI Sensor Fusion Robots market?
4. What is the production and production value of the global Edge-AI Sensor Fusion Robots market?
5. Who are the key producers in the global Edge-AI Sensor Fusion Robots market?
6. What are the growth factors driving the market demand?

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