

Global Semiconductors in Smart Agriculture Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G13A80FB769EEN.html>

Date: June 2026

Pages: 194

Price: US\$ 4,480.00 (Single User License)

ID: G13A80FB769EEN

Abstracts

The global Semiconductors in Smart Agriculture market size is expected to reach \$ 21722 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

Semiconductors in smart agriculture refer to the collection of chips and devices that provide the foundational capabilities for sensing, connectivity, control, positioning, imaging, lighting, and edge computing across agricultural production scenarios such as open fields, greenhouses, livestock operations, agricultural machinery, drones, and grain storage. The core problem they address is not simply replacing labor with a single device, but converting soil moisture, electrical conductivity, temperature, carbon dioxide, gases, crop spectrum, attitude, location, and environmental changes into digital signals that can be collected, transmitted, computed, and acted upon. This enables water and fertilizer savings, precision field operations, remote inspection, autonomous navigation, controlled-environment cultivation, and livestock asset management. Core products include MCUs, MPUs, wireless SoCs, LoRa and cellular IoT connectivity chips, GNSS and RTK positioning modules, AFEs, MEMS inertial devices, millimeter-wave radar, CMOS image sensors, multispectral sensors, gas and environmental sensors, LEDs and drivers, power management ICs, and power devices. The key technology paradigms include low-power acquisition, interference-resistant analog front ends, edge AI, long-range wireless communication, centimeter-level positioning, machine vision, and tunable spectral lighting. Typical customers include agricultural sensor manufacturers, agricultural machinery and robot OEMs, greenhouse equipment suppliers, irrigation controller manufacturers, drone companies, and agricultural IoT gateway vendors. Delivery forms mainly include chips, modules, evaluation boards, reference designs, software development kits, and positioning correction services, while business models are centered on device sales, design wins, long-term supply

agreements, and platform ecosystem support.

Semiconductors in smart agriculture are not a single chip category, but a cross-category set of devices formed around agricultural digitalization. Their demand base comes from the shift of agricultural production from experience-based management to data-driven management. Agricultural sites contain many distributed, low-speed, low-power, and environmentally disturbed variables, including soil moisture, electrical conductivity, temperature, carbon dioxide, gases, crop images, animal location, machinery attitude, and operating routes. Without reliable sensing, connectivity, and edge computing capabilities, traditional agricultural equipment cannot easily convert these variables into actionable irrigation, fertilization, ventilation, supplemental lighting, navigation, and alarm instructions. Therefore, the industry position of semiconductors in smart agriculture is to serve as the foundational hardware layer behind agricultural IoT, precision agriculture, agricultural machinery automation, controlled-environment agriculture, and agricultural robotics. Microchip identifies IoT, AI/ML, advanced sensors, MPUs, and MCUs as key technologies for smart agriculture to optimize resources, improve crop quality, and increase profitability, while Nordic applies low-power wireless connectivity to monitoring crops, soil, weather, irrigation, animals, and farming equipment. This indicates that growth in this segment does not depend on a single blockbuster product, but on the rising number of agricultural terminal nodes, the expansion of sensing dimensions, and higher equipment connectivity.

From a technology structure perspective, semiconductors in smart agriculture can be divided into six capability groups: sensing, computing, connectivity, positioning, vision, lighting, and power. Sensing and connectivity form the foundation, positioning and vision determine the capability of high-end agricultural machinery and robotics, lighting and spectral control define the efficiency of controlled-environment agriculture, and power management determines the reliability of outdoor nodes and mobile equipment. Murata's soil sensor integrates EC, moisture, and temperature in an outdoor-resistant package. Bosch's BME688 combines gas, pressure, humidity, temperature, and AI capabilities. Sensirion's SCD4x measures CO₂ based on photoacoustic NDIR, PASens, and CMOSens technologies. These examples show that agricultural environmental monitoring is moving from single-parameter sensing toward multi-parameter and algorithm-enabled sensing. u-blox's centimeter-level RTK positioning, ADI's precision MEMS IMU, TI's millimeter-wave radar, SmartSens and Samsung's CMOS image sensors, and ams OSRAM's horticulture LED and spectral solutions together form the hardware foundation for field navigation, drone remote sensing, crop recognition, and greenhouse lighting. In the competitive landscape, companies in the United States, Europe, and Japan have stronger capabilities in high-reliability analog,

positioning, sensing, and optoelectronic devices, while Chinese and Korean companies have more substitution and local supply opportunities in MCUs, wireless SoCs, image sensors, and power devices.

Future growth will concentrate in three directions. The first is low-power wide-area connectivity for open fields and livestock farms. LoRa, Sub-GHz, cellular IoT, and satellite IoT can cover remote areas that traditional networks cannot reach effectively. MediaTek's MT6825 is already positioned for large-scale satellite IoT applications such as remote utility monitoring, infrastructure management, maritime, connected agriculture, fleet management, and telematics. The second is controlled-environment agriculture. Greenhouses, vertical farms, and indoor cultivation require higher efficiency in LEDs, spectral tuning, CO₂, humidity, temperature, and pest and disease monitoring. Philips OSRAM's horticulture lighting solutions emphasize improved plant growth, energy efficiency, and system cost performance. The third is unmanned agricultural machinery and agricultural robotics. Centimeter-level GNSS, MEMS IMUs, radar, CMOS image sensors, and edge AI jointly push autonomous tractors, spraying robots, harvesting robots, and drones from demonstration toward scaled deployment. Overall, the consumption regions for semiconductors in smart agriculture will first concentrate in large mechanized farms, water-scarce and high-labor-cost regions, developed greenhouse agriculture regions, and livestock farms or remote fields with broad asset distribution but weak network coverage.

This report studies the global Semiconductors in Smart Agriculture demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductors in Smart Agriculture, 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 Semiconductors in Smart Agriculture that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductors in Smart Agriculture total market, 2021-2032, (USD Million)

Global Semiconductors in Smart Agriculture total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Semiconductors in Smart Agriculture total market, key domestic companies, and share, (USD Million)

Global Semiconductors in Smart Agriculture revenue by player, revenue and market

share 2021-2026, (USD Million)

Global Semiconductors in Smart Agriculture total market by Type, CAGR, 2021-2032, (USD Million)

Global Semiconductors in Smart Agriculture total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Semiconductors in Smart Agriculture market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Microchip Technology Inc., Analog Devices, Texas Instruments Incorporated, STMicroelectronics, Semtech Corporation, Nordic Semiconductor, NXP Semiconductors, Infineon, Robert Bosch GmbH, Sensirion Holding AG, 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 Semiconductors in Smart Agriculture market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Semiconductors in Smart Agriculture Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductors in Smart Agriculture Market, Segmentation by Type:

Sensor

Actuator

IC

Global Semiconductors in Smart Agriculture Market, Segmentation by Connectivity And Interface:

CMOS Silicon-Based IC

MEMS

RF And Millimeter-Wave

Optoelectronics And LED

Power Semiconductors

System-Level Modules

Global Semiconductors in Smart Agriculture Market, Segmentation by Application:

Open-Field Farming

Greenhouses And Vertical Farms

Agricultural Machinery And Robotics

Drone Remote Sensing

Livestock And Asset Tracking

Storage And Environmental Monitoring

Companies Profiled:

Microchip Technology Inc.

Analog Devices

Texas Instruments Incorporated

STMicroelectronics

Semtech Corporation

Nordic Semiconductor

NXP Semiconductors

Infineon

Robert Bosch GmbH

Sensirion Holding AG

ams-OSRAM AG

u-blox Holding AG

ON Semiconductor

Silicon Laboratories Inc.

Renesas Electronics Corporation

Sony Semiconductor Solutions Corporation

Murata Manufacturing Co., Ltd.

ROHM Co., Ltd.

Hamamatsu Photonics K.K.

TDK Corporation

Samsung Electronics Co., Ltd.

ABOV Semiconductor Co., Ltd.

Nextchip Co., Ltd.

Silicon Mitus, Inc.

Magnachip Semiconductor Corporation

Pixelplus Co., Ltd.

Espressif Systems Co., Ltd.

GigaDevice Semiconductor Inc.

SmartSens Technology Co., Ltd.

Will Semiconductor Co., Ltd. Shanghai

UNISOC (Shanghai) Technologies Co., Ltd.

MediaTek Inc.

Nuvoton Technology Corporation

Rockchip Electronics Co., Ltd.

Himax Technologies, Inc.

Vishay Intertechnology

Key Questions Answered

1. How big is the global Semiconductors in Smart Agriculture market?
2. What is the demand of the global Semiconductors in Smart Agriculture market?
3. What is the year over year growth of the global Semiconductors in Smart Agriculture market?
4. What is the total value of the global Semiconductors in Smart Agriculture market?
5. Who are the Major Players in the global Semiconductors in Smart Agriculture market?
6. What are the growth factors driving the market demand?

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