

Global IoT-based Smart Irrigation System Market Research Report 2026(Status and Outlook)

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Abstracts

The IoT-based Smart Irrigation System is a modern management system that leverages IoT technology to achieve intelligent, refined, and efficient agricultural irrigation. Its core architecture consists of a perception layer, a transmission layer, a platform layer, and an application layer. Sensors deployed in the field, such as soil moisture, temperature, light, and weather, collect environmental data in real time (the perception layer). This data is transmitted to a cloud platform via wireless networks such as LoRa, NB-IoT, or 4G/5G (the transmission layer). The platform layer stores, analyzes, and makes decisions based on this data, using artificial intelligence algorithms to generate optimal irrigation strategies. Finally, the application layer remotely controls actuators such as pumps and solenoid valves, achieving precise, on-demand irrigation. This system significantly improves water resource utilization, alleviates agricultural water use conflicts, reduces labor costs, and, through data-driven approaches, increases crop yield and quality. It is a key technological application in promoting smart agriculture and sustainable development. The upstream sector of the IoT-based Smart Irrigation System industry represents the technological core and global focus of competition, dominated by key component suppliers. This includes sensor layer suppliers such as Bosch and STMicroelectronics, which provide high-precision soil moisture and temperature sensors; Quectel and Fibocom, which provide NB-IoT and LoRa modules; and Silicon Labs, which provides chip solutions. This segment has high technical barriers and is dominated by leading European, American, and Chinese technology companies. Their innovation and cost impact directly impact the downstream and upstream sectors of the system. The downstream sector integrates and implements the system, primarily serving large farms, agricultural cooperatives, and agricultural service companies. As end users, downstream farms prioritize cost reduction and efficiency improvement. Their adoption rate is directly driven by return on investment (ROI), determining whether the system's water and labor savings, as well as increased yields, can offset the initial

investment. The global market shows that North America and Europe are leading in technology adoption, while the Asia-Pacific and Latin American markets hold significant potential.

The global IoT-based Smart Irrigation System market size was estimated at USD 187.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global IoT-based Smart Irrigation System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global IoT-based Smart Irrigation System market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the IoT-based Smart Irrigation System market.

Global IoT-based Smart Irrigation System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the

unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Mobitech Wireless
Greenly Irrigation Systems
SR Robotics
SenzAgro Solutions
MittiLabs
Netafim
Toro Company
Rain Bird Corporation
Hunter Industries
Rachio
IRRIOT
Seabex
Shandong Renke
Kingpigeon

Market Segmentation (by Type)

LoRa (Long Range Radio) System
NB-IoT (Narrowband Internet of Things) System
ZigBee/Wi-Fi System
4G/5G System

Market Segmentation (by Application)

Agricultural Production
Landscaping
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the IoT-based Smart Irrigation System Market
Overview of the regional outlook of the IoT-based Smart Irrigation System Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the IoT-based Smart Irrigation System Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of IoT-based Smart Irrigation System, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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