

Connected Lighting Platform Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component (Hardware, Software and Services), By Connectivity (Wired and Wireless), By Application (Indoor and Outdoor), By Region, and By Competition, 2019-2029F

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Abstracts

Global Connected Lighting Platform Market was valued at USD 16.63 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 14.38% through 2029. The rapid evolution of Internet of Things (IoT) technologies is a significant driver for connected lighting platforms. The integration of sensors, connectivity modules, and smart controls into lighting infrastructure enables real-time data collection, analysis, and communication. This connectivity allows for advanced functionalities, including remote monitoring, predictive maintenance, and the ability to customize lighting settings based on user preferences and environmental conditions.

Key Market Drivers

Energy Efficiency and Sustainability Initiatives

The global connected lighting platform market is experiencing a significant boost due to the growing emphasis on energy efficiency and sustainability initiatives across the globe. As governments and organizations strive to reduce their carbon footprint and achieve energy conservation goals, connected lighting solutions have emerged as a key enabler in achieving these objectives. Traditional lighting systems are being replaced by smart and connected alternatives that offer advanced control and monitoring capabilities.

Connected lighting platforms contribute to energy efficiency by allowing users to customize and optimize lighting settings based on occupancy, natural light conditions, and specific requirements. The integration of sensors and IoT technology enables real-time data collection and analysis, facilitating intelligent decisions to reduce energy consumption. Additionally, the ability to remotely monitor and manage lighting systems through a centralized platform further enhances operational efficiency, leading to substantial energy savings over time.

In response to environmental concerns and regulatory pressures, businesses and municipalities are increasingly adopting connected lighting solutions as a strategic component of their sustainability efforts. This driver is expected to propel the global connected lighting platform market forward as organizations seek comprehensive solutions to align with their environmental and energy conservation goals.

Advancements in IoT and Connectivity Technologies

The rapid evolution of Internet of Things (IoT) and connectivity technologies is another major driver fueling the growth of the global connected lighting platform market. As these technologies continue to mature, the capabilities of connected lighting systems are expanding, enabling seamless integration with other smart devices and systems. The interconnectivity between lighting, sensors, and data analytics creates a robust ecosystem that enhances user experience and operational efficiency.

IoT-enabled lighting systems offer features such as remote control, automation, and real-time data monitoring. The ability to connect lighting infrastructure to a centralized platform or cloud-based solution facilitates data-driven decision-making and predictive maintenance. Moreover, advancements in wireless communication technologies, such as Bluetooth Low Energy (BLE) and Zigbee, have simplified the deployment and management of connected lighting systems, making them more accessible to a broader range of applications.

As businesses and consumers increasingly recognize the benefits of a connected environment, the demand for intelligent lighting solutions is on the rise. This driver underscores the pivotal role played by ongoing technological advancements in shaping the trajectory of the global connected lighting platform market.

Smart City Initiatives and Urban Development

The global trend toward urbanization and the rise of smart city initiatives are significant drivers propelling the growth of connected lighting platforms. Governments and city planners are embracing smart technologies to enhance the quality of life for citizens, improve resource utilization, and streamline urban infrastructure. Connected lighting solutions play a pivotal role in these endeavors by providing cities with the tools to create intelligent, responsive, and energy-efficient lighting systems.

In smart city scenarios, connected lighting platforms offer features such as adaptive lighting, traffic management, and security enhancements. These platforms can integrate with other smart city components, such as surveillance systems, environmental sensors, and transportation networks, creating a cohesive and interconnected urban environment. The data collected from connected lighting systems can be leveraged for data analytics and insights, enabling cities to make informed decisions about urban planning, traffic optimization, and public safety.

The increasing focus on creating sustainable, livable urban spaces is driving the adoption of connected lighting solutions as an integral part of smart city frameworks. This driver highlights the transformative impact that smart city initiatives are having on the global connected lighting platform market, as cities worldwide recognize the role of intelligent lighting in shaping the future of urban development.

Key Market Challenges

Interoperability and Standardization

One of the primary challenges facing the global connected lighting platform market is the lack of interoperability and standardization across different solutions. As the market continues to witness a proliferation of diverse connected lighting systems, devices, and protocols, ensuring seamless communication and integration among these varied components becomes a complex task. Manufacturers often develop proprietary technologies and communication protocols, leading to compatibility issues when attempting to connect devices from different vendors.

Interoperability challenges hinder the scalability and flexibility of connected lighting platforms. Incompatibility between devices can limit the options available to end-users, potentially resulting in vendor lock-in and higher implementation costs. The absence of universally accepted standards also complicates the integration of connected lighting with broader smart building and smart city ecosystems.

Addressing this challenge requires industry stakeholders, including manufacturers, standards organizations, and regulatory bodies, to collaborate in developing and adopting common standards. The establishment of interoperability guidelines will not only enhance the user experience but also foster healthy competition, innovation, and a more mature global connected lighting platform market.

Cybersecurity Concerns and Privacy Issues

As the adoption of connected lighting platforms increases, so does the risk of cybersecurity threats and privacy breaches. The integration of Internet of Things (IoT) devices and connectivity technologies exposes connected lighting systems to potential vulnerabilities that malicious actors may exploit. Hackers could compromise the security of these systems, leading to unauthorized access, data manipulation, or even the disruption of critical services.

The collection of extensive data from connected lighting platforms, including user preferences, occupancy patterns, and environmental conditions, raises concerns about privacy. Users may worry about the unauthorized use or sharing of their personal information, creating a barrier to the widespread acceptance and adoption of connected lighting solutions.

Addressing cybersecurity and privacy challenges requires a comprehensive approach involving robust encryption, authentication mechanisms, and regular security updates. Industry stakeholders must prioritize cybersecurity measures, and regulatory bodies should establish guidelines to ensure the protection of user data and privacy rights. Proactive cybersecurity measures will be crucial in building trust among users and stakeholders, fostering a secure environment for the global connected lighting platform market to thrive.

Initial Implementation Costs and Return on Investment

While connected lighting platforms offer long-term benefits in terms of energy efficiency, operational optimization, and enhanced user experience, the initial implementation costs can be a significant barrier to adoption. The deployment of smart lighting systems involves expenses related to hardware, software, sensors, and connectivity infrastructure. Organizations, especially smaller businesses, may perceive these upfront costs as a substantial investment, potentially delaying or inhibiting adoption.

To encourage broader adoption, manufacturers and solution providers must work

towards cost-effective solutions without compromising on quality and functionality. Governments and industry associations can play a role in incentivizing the adoption of connected lighting platforms through financial incentives, subsidies, or regulatory frameworks that promote energy-efficient technologies.

Demonstrating a clear return on investment (ROI) is crucial to overcoming this challenge. Connected lighting providers should emphasize the long-term cost savings, energy efficiency gains, and additional benefits such as improved productivity and sustainability. As the market matures and competition increases, the cost of connected lighting solutions is expected to decrease, making them more accessible to a wider range of businesses and consumers. Proactive efforts to address initial cost concerns will be instrumental in driving the widespread adoption of connected lighting platforms globally.

Key Market Trends

Integration with Advanced Technologies - AI and Edge Computing

A prominent trend shaping the landscape of the global connected lighting platform market is the integration of advanced technologies, particularly artificial intelligence (AI) and edge computing. As the capabilities of connected lighting systems continue to evolve, the incorporation of AI algorithms enables these platforms to offer intelligent and adaptive functionalities. AI-driven lighting solutions can analyze real-time data from sensors, occupancy patterns, and user preferences to dynamically adjust lighting conditions, optimizing energy consumption and enhancing user comfort.

Edge computing plays a pivotal role in this trend by enabling data processing to occur closer to the source, reducing latency and enhancing system responsiveness. Rather than relying solely on centralized cloud servers, connected lighting platforms leverage edge computing to process data locally, allowing for quicker decision-making and real-time adjustments. This is particularly crucial in applications where low latency is essential, such as smart buildings, industrial settings, and outdoor lighting.

The integration of AI and edge computing not only enhances the efficiency and responsiveness of connected lighting systems but also opens up new possibilities for applications such as predictive maintenance, personalized lighting experiences, and improved security through intelligent surveillance. As these technologies continue to mature, their integration is expected to be a driving force behind the advancement and widespread adoption of connected lighting platforms on a global scale.

Human-Centric Lighting and Wellness Applications

Human-centric lighting is emerging as a significant trend in the global connected lighting platform market, reflecting a growing awareness of the impact of lighting on human well-being and productivity. This trend focuses on tailoring lighting conditions to mimic natural daylight patterns, promoting better circadian rhythms and positively influencing human health and performance.

Connected lighting platforms are increasingly incorporating features that allow for the customization of color temperature, intensity, and spectral composition to align with the natural progression of daylight. This not only enhances visual comfort but also has the potential to improve sleep-wake cycles, mood, and overall wellness. Human-centric lighting finds applications in various settings, including offices, healthcare facilities, educational institutions, and residential spaces.

The integration of sensors and data analytics in connected lighting platforms enables the measurement and analysis of environmental factors, such as ambient light levels, temperature, and occupancy. This data can be leveraged to create personalized lighting profiles for individuals, optimizing their work or living environments based on specific preferences and needs.

As organizations and individuals recognize the importance of creating healthier and more comfortable indoor spaces, the demand for human-centric lighting solutions is expected to grow. The global connected lighting platform market is witnessing a shift towards wellness-focused applications, reflecting a broader societal emphasis on creating environments that prioritize the holistic well-being of occupants. This trend is likely to continue shaping the market as manufacturers and developers innovate to meet the evolving expectations of users seeking lighting solutions that contribute to both productivity and health.

Segmental Insights

Component Insights

The Hardware segment emerged as the dominating segment in 2023. Luminaires and lighting fixtures form the foundational hardware components of connected lighting platforms. These fixtures are equipped with embedded sensors, connectivity modules, and sometimes even computing capabilities. The integration of sensors, such as motion

detectors, ambient light sensors, and occupancy sensors, allows luminaires to gather data about their environment. This data is crucial for enabling intelligent lighting control and automation. Additionally, many modern luminaires support connectivity protocols like Bluetooth, Zigbee, or Wi-Fi, facilitating communication with central control systems or other connected devices.

The trend in this hardware segment involves the development of smart luminaires that not only provide efficient illumination but also contribute to the broader smart building ecosystem. Integration with advanced technologies like IoT and AI enables these luminaires to adapt to changing conditions, optimizing energy usage and enhancing user experience.

Connected lighting platforms rely on sophisticated control systems and gateways to manage and orchestrate the operation of individual luminaires or lighting fixtures. Control systems serve as the central intelligence, processing data from sensors, user inputs, and external factors to make informed decisions about lighting conditions. Gateways act as intermediaries between the luminaires and the central control system, ensuring seamless communication and coordination.

The hardware in this segment is evolving to support more robust and scalable control architectures. Cloud-based control systems enable remote management and monitoring, while edge computing capabilities in gateways enhance real-time processing and decision-making. The challenge in this segment lies in ensuring interoperability between different control systems and gateways, allowing for seamless integration within diverse connected lighting ecosystems.

Connectivity modules and networking infrastructure play a crucial role in enabling communication between various components of the connected lighting platform. These modules may include wireless technologies such as Bluetooth Low Energy (BLE), Zigbee, Wi-Fi, or wired solutions like Power over Ethernet (PoE). The choice of connectivity often depends on the specific requirements of the application and the desired range and bandwidth.

The trend in this hardware segment involves the adoption of low-power, long-range wireless technologies that enhance the reliability and efficiency of communication between luminaires, control systems, and other connected devices. The development of robust networking infrastructure is essential for ensuring a stable and secure communication framework, especially as the scale of connected lighting deployments increases.

Regional Insights

Europe emerged as the dominating region in 2023, holding the largest market share. The European Union's focus on achieving energy efficiency goals, such as the Energy Performance of Buildings Directive (EPBD) and the Green Deal, has stimulated the demand for intelligent lighting solutions. The integration of connected lighting platforms in commercial buildings, residential spaces, and public infrastructure aligns with these regulatory initiatives, contributing to the market's growth.

European cities are leading the way in implementing smart city initiatives, and connected lighting platforms play a crucial role in these developments. Cities like Barcelona, Amsterdam, and Copenhagen have implemented intelligent lighting solutions to enhance public safety, optimize energy consumption, and create more livable urban spaces.

The deployment of connected lighting systems, coupled with sensors and data analytics, contributes to the development of smart city ecosystems. These systems enable adaptive lighting based on real-time conditions, traffic management, and environmental monitoring. European cities are leveraging connected lighting to improve the quality of life for citizens, reduce operational costs, and achieve sustainability goals.

The European market for connected lighting platforms is characterized by strategic partnerships and collaborations between technology providers, lighting manufacturers, and urban planners. Companies are forming alliances to integrate complementary technologies, enhance interoperability, and deliver comprehensive solutions that meet the diverse needs of end-users.

Collaborations between lighting manufacturers and IT companies are becoming common, facilitating the development of connected lighting solutions that seamlessly integrate with other smart devices and platforms. These partnerships aim to create holistic ecosystems that go beyond lighting control, incorporating features like building automation, occupancy management, and environmental monitoring.

Europe's commitment to energy efficiency and sustainability is a significant driver of the connected lighting platform market. The region is actively transitioning to energy-efficient lighting solutions, with a notable shift from traditional lighting to LED technologies. Connected lighting platforms further contribute to energy savings by enabling intelligent control, adaptive lighting, and real-time monitoring.

The regulatory landscape in Europe plays a pivotal role in shaping the connected lighting platform market. Standards and regulations related to energy performance, data privacy, and interoperability impact the development and deployment of these systems. Compliance with EU directives, such as the General Data Protection Regulation (GDPR) and the Eco-design Directive, influences product design and market entry strategies for connected lighting solution providers.

The European market for connected lighting platforms is dynamic, driven by a confluence of factors such as regulatory initiatives, smart city developments, sustainability goals, and technological advancements. As the region continues to prioritize energy efficiency and the creation of intelligent urban environments, the connected lighting platform market is poised for sustained growth, making Europe a key player in the global landscape.

Key Market Players

Eaton Corporation plc

Wolfspeed, Inc.

Signify N.V.

Honeywell International Inc.

Samsung Electronics Co., Ltd.

Legrand SA

Schneider Electric SE

Comarch SA

Lutron Electronics Co. Inc.

Leviton Manufacturing Co., Inc.

Report Scope:

Connected Lighting Platform Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented...

In this report, the Global Connected Lighting Platform Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Connected Lighting Platform Market, By Component:

Hardware

Software

Services

Connected Lighting Platform Market, By Connectivity:

Wired

Wireless

Connected Lighting Platform Market, By Application:

Indoor

Outdoor

Connected Lighting Platform Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Connected Lighting Platform Market.

Available Customizations:

Global Connected Lighting Platform Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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 - 15.8.5. Key Product/Services Offered
- 15.9. Lutron Electronics Co. Inc.
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
 - 15.9.5. Key Product/Services Offered
- 15.10. Leviton Manufacturing Co. Inc.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
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16. STRATEGIC RECOMMENDATIONS

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