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Global Thermocouple Temperature Sensor Market Forecast 2019-2027

A temperature sensor is a device that provides temperature measurement using an electrical signal. The temperature sensor can be either a thermocouple or an RTO. These sensors have widespread use in industries, such as the automobile, residential, medical, environmental, food processing, and chemicals, owing to their low cost, small size, and ease of use.

Global thermocouple temperature sensors market is estimated to grow with approximately 4.89% CAGR during the forecasting years of 2019-2027 and is expected to gain $1,256 million till the year 2027.

MARKET INSIGHTS

The increasing sales and advancement of automobiles, growing technological developments and the growing importance of safety & security are primarily driving the growth of the global thermocouple temperature sensors market. These devices find significant application in the automotive industry where they are used to adjust fuel injection, ignition timing, and cooling fan. They are also used to measure the temperature of engine intake air, calculate the engine oil temperature, disk-break temperature, and to regulate exhaust gas recirculation.

One of the important drivers is the increase in the sales and advancement of automobiles. Thermocouple temperature sensors are mainly used for thermal management and automatic transmissions systems in the automotive industry. Thus, an increase in the sales of automobiles will lead to growth in the global thermocouple temperature sensors market.

Global Semiconductor Inspection Equipment Market Insights, Forecast to 2025

This report presents the worldwide Semiconductor Inspection Equipment market size (value, production and consumption), splits the breakdown (history data 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter’s Five Forces Analysis.

The following manufacturers are covered in this report:

- KLA-Tencor
- Hitachi High-Technologies
- Lasertec
- ZEISS
- Camtek
- Veeco Instruments
- Applied Materials
- ASML
- Rudolph Technologies
- Nanometrics
- SCREEN Semiconductor Solutions
- Toray Engineering
**Global Smart Bulb Market Insights, Forecast to 2025**

*Published by QYResearch*  
*Pub. Date 2019/07/13*

**Price**  
USD 4900 PDF by E-mail (Single User License)  
USD 9800 PDF by E-mail (Enterprise Wide License)

This report presents the worldwide Smart Bulb market size (value, production and consumption), splits the breakdown (history data 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter's Five Forces Analysis.

The global Smart Bulb market is valued at 361 million US$ in 2018 and will reach 716 million US$ by the end of 2025, growing at a CAGR of 10.40% during 2019-2025.

The following manufacturers are covered in this report:

- Philips Lighting
- LIFX (Buddy)
- Sengled
- iLumi solutions
- Yeelight
- General Electric Company
- OSRAM
- Cree
- Feit Electric

**Military Sensors Market by Application (Intelligence & Reconnaissance, Communication & Navigation, Combat Operations, Electronic Warfare, Target Recognition, Command and Control, Surveillance), Platform, Component, Region - Global Forecast to 2025**

*Published by MarketsandMarkets*  
*Pub. Date 2019/07/12*

**Price**  
USD 5650 PDF by E-mail (Single User License)  
USD 10000 PDF by E-mail (Global License)

Increasing demand for unmanned vehicles and ongoing military modernization programs are expected to fuel the growth of the military sensors market across the globe.

The military sensors market is projected to grow from USD 24.7 billion in 2019 to USD 33.2 billion by 2025, at a CAGR of 5.1% from 2019 to 2025. Some of the factors that are expected to fuel the growth of the military sensors market are increased defense spending of different countries to strengthen their defense capabilities. However, the formulation and implementation of various rules and regulations related to the transfer of weapons and associated technologies are expected to act as restraints for the growth of the market.

The electronic warfare segment of the market is projected to grow at the highest CAGR from 2019 to 2025.

Based on application, the electronic warfare segment of the market is projected to grow at the highest CAGR during the forecast period. The growth of this segment can be attributed to the increased procurement of fighter jets. For instance, in June 2019, the US Government and Lockheed Martin entered into an agreement worth USD 34.0 billion for the procurement of 470 F-35 fighter jets.
**Capacitors: World Markets, Technologies & Opportunities: 2019-2024**

Published by Paumanok Publications, Inc.  
Pub. Date 2019/07/11  
Price  
USD 3750 PDF by E-mail (Single User License) ~  
USD 7500 PDF by E-mail (Site License)

"Capacitors: World Markets, Technologies & Opportunities: 2019-2024” has been continuously published and updated over the past 30 years employs an advanced research methodology designed by Paumanok founder Dennis Zogbi, and continually applied to create a unique data-set that chronicles all the key fundamentals of the global capacitor industry. The study begins with a complete technology and market assessment of capacitor dielectrics by type including ceramic, aluminum, plastic film, tantalum and carbon dielectric capacitors, configuration and performance characteristic; and then offers a complete assessment of the current global OEM, EMS and Distributor market environment, with emphasis upon the 2018 and 2019 capacitor shortages of key surface mount capacitors, with detailed explanations of what caused the shortage, how it could have been prevented, and what steps are being taken in the supply chain to ensure shortages like this do not happen. This study documents the impact the shortage had on the prices paid for capacitors in FY 2018 and FY 2019, and the subsequent value of consumption. The study also discusses the volume of production (including MLCC production starts versus consumption) and makes detailed forecasts for 2020, 2021, 2022, 2023, and 2024 by capacitor type/dielectric.

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**High Power LED Market by Packaging Type (Flip Chip, Mesa, and Vertical), Application (General Lighting, Automotive, Flash Lighting, Backlighting,) and Geography (APAC, North America, Europe, Rest of the World) - Global Forecast to 2024**

Published by MarketsandMarkets  
Pub. Date 2019/07/11  
Price  
USD 5650 PDF by E-mail (Single User License) ~  
USD 10000 PDF by E-mail (Global License)

The high power LED market is expected to grow from USD 4.5 billion in 2019 to USD 5.6 billion by 2024, at a CAGR of 4.5% during the forecast period. The long life & continuous usage, small size, less power consumption & low voltage, and increasing high brightness application are the major factors fueling the growth of the overall market. However, the high initial cost might restrain the market growth.

"High power LED with flip chip packaging to grow at the highest CAGR during the forecast period"

The high power LED market for flip chip packages will grow at the highest CAGR during the forecast period owing to its advantages over the traditional horizontal mesa packaging and vertical packaging. The flip chip packages can be driven at higher current, are free of wire-bonding, and are offered in smaller packages. This is the major factor leading to the higher adoption of these LEDs than the traditional horizontal and vertical LEDs.

"Automotive application to register high CAGR in high power LED market during the forecast period"

In the automotive sector, high power LEDs are used in interior and exterior lighting applications. The adoption of high power LEDs for automotive lighting is very low due to their high costs, and they are used mostly in premium cars. However, their adoption is slowly gaining momentum because of increased interest among automobile manufacturers for high power LED modules and their availability for automotive applications. The available brightness due to high power LEDs would be the major driver for the growth of the high power LED market.
The LTCC market and HTCC market size is estimated to be USD 916 million in 2019 and is projected to reach USD 1.1 billion by 2024, at a CAGR of 4.5% between 2019 and 2024. Co-fired ceramics are used in different industries such as aerospace & defense, automotive, telecommunications, medical, and industrial. They exhibit various properties such as non-corrosiveness, environmental resistance, thermal dissipation, and resistance to thermal shock. The superior features offered by co-fired ceramics are enabling its usage in various end-use industries.

"LTCC process type accounted for the largest share, in terms of value and volume, of the overall LTCC market and HTCC market."

LTCC process dominated the overall LTCC market and HTCC market in 2018. Co-fired ceramic possess characteristics such as low signal loss, better performance, and high reliability at a higher temperature. An LTCC structure consists of multiple dielectric layers, low-loss conductors, and via-holes for interconnecting multiple layers. The LTCC process offers better performance at high temperature, as ceramic materials used in LTCC offer temperature stability.

The Power Semiconductors and Modules market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Power Semiconductors and Modules.

This study focuses on the production side and consumption side of Power Semiconductors and Modules, presents the global Power Semiconductors and Modules market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Power Semiconductors and Modules capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Power Semiconductors and Modules by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.
The Industrial IGBT Power Semiconductors market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Industrial IGBT Power Semiconductors.

This study focuses on the production side and consumption side of Industrial IGBT Power Semiconductors, presents the global Industrial IGBT Power Semiconductors market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Industrial IGBT Power Semiconductors capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Industrial IGBT Power Semiconductors by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.
Simply put, a layer 3 switch combines the functionality of a switch and a router. It acts as a switch to connect devices that are on the same subnet or virtual LAN at lightning speeds and has IP routing intelligence built into it to double up as a router. It can support routing protocols, inspect incoming packets, and can even make routing decisions based on the source and destination addresses.

The Layer 3 Switch market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Layer 3 Switch.

This study focuses on the production side and consumption side of Layer 3 Switch, presents the global Layer 3 Switch market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Layer 3 Switch capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Layer 3 Switch by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.
Global transformer monitoring system market is valued approximately at USD 3.8 billion in 2017 and is anticipated to grow with a healthy growth rate of of more than 12.77 % over the forecast period 2018-2025. Transformer monitoring systems could be used to diagnose and monitor the health of transformers and these systems helps the end-users to identify and detect failures in transformers that would reduce the repairing costs. The evolution of big data analytics and internet of things have spurred the demand for digitalization of utilities and to promote smart grids which would drive the demand for transformer monitoring systems. Further, the installation of a huge number of distributor transformers for fulfilling the ever-increasing need for power distribution and transmission in a cost-effective manner, is also driving the growth of the market. However, high cost associated with the transformer monitoring systems is expected impede the market growth during the forecast period.

The regional analysis of global transformer monitoring system market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. Asia-Pacific is the leading/significant region across the world in terms of market share owing to capacity addition and enhancement plans of the utilities. Whereas, Asia-Pacific is also anticipated to exhibit highest growth rate / CAGR over the forecast period 2018-2025 due to increasing investment in smart grids in developing countries such as India, China and Japan.
The geotechnical instrumentation and monitoring (GTIM) market is expected to grow from USD 3.3 billion in 2019 to USD 5.0 billion by 2024, growing at a CAGR of 9.0%. Key factors driving the growth of the GTIM market include a significant rise in infrastructure investments across various countries; stringent government regulations to make structures more sustainable and safer; failure of geotechnical structures results in loss of lives and destruction of infrastructure, as well as financial losses; and increased awareness about benefits of GTIM tools. Strategies such as product launches and developments, contracts, mergers and acquisitions, joint ventures, and expansions adopted by market players are fueling the growth of the GTIM market. However, generation of inaccurate results owing to errors in readings, and high installation and monitoring costs are restraining the growth of the market.

"Wired network technology to account for larger market size from 2019 to 2024"

Wired technology is the most commonly used networking technology in geotechnical instrumentation and monitoring applications. Wired technology is primarily used to measure the pore water pressure, slope and rock stability, and underground pressure. These applications are useful to efficiently monitor the structure and maintain its safety. The wired technology provides a host of benefits such as reduced attenuation of data during transfer and high speed of operations, and higher bandwidth for transmission, which are critical in geotechnical operations. All these factors will propel the growth of GTIM market during the forecast period.
Global Third Party Optical Transceivers Market Size study, by Type (SFP, SFP+, QSFP/QSFP+, XFP, CXP), by Application (Telecom, Datacom) and Regional Forecasts 2016-2026

Published by Bizwit Research & Consulting LLP

Price
USD 3950 Unprintable PDF by E-mail (Single User License) ~
USD 5550 Printable PDF by E-mail (Enterprise License)

www.giiresearch.com/ce/888137

Global Third Party Optical Transceivers Market valued approximately USD XXX million in 2018 is anticipated to grow with a CAGR of XXX% over the forecasted period of 2016-2026. The Third Party Optical Transceivers market is developing and expanding at a significant pace. Third party optical transceiver is that which is not supplied and branded by Original Equipment Manufacturers (OEM) but provided by another vendor (third party) who can offer or make the optics with same specifications. The market growth is primarily driven owing to surging demand of third party optical transceivers by the manufacturing and production facilities operating in both the developed and developing countries.

The regional analysis of Global Third Party Optical Transceivers Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the fastest growing region across the world in terms of market share. Whereas, owing to the countries such as China, Japan, and India, Asia Pacific region is anticipated to be the dominating region over the forecast period 2016-2026.

Global USB Wall Charger Market Size study, by Type (1 Port, 2 Ports, 3 Ports, 4 Ports, Others), by Application (Individual, Commercial, Specialty Sports, Others) and Regional Forecasts 2019-2026

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Price
USD 3950 Unprintable PDF by E-mail (Single User License) ~
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Global USB Wall Charger Market valued approximately USD 1255.0 million in 2018 is anticipated The USB wall charger refers to a universal power adapter that enables users to plug into multiple varieties of electrical socket. A USB wall charger optimally delivers power requirements as much as the device needs. A USB wall charger is designed in a way so that it is compatible with a wide range of mobile devices such as Apple iPhone, iPad, android phones, and laptops. The market growth is primarily driven by increasing proliferation of smart phones across the world. The enhanced functionality in smartphones drain out battery too soon, which is propelling the demand for these chargers. Additionally, features associated with the USB wall chargers such as fast charging, compatibility and multiple ports to charge several devices at the same time are further likely to boost the demand for the chargers during the forecast period. However, presence of counterfeit product in the market is expected to hamper the market growth.
Global Magnet Wire Market Size study, by Type, Shape, Application, End-Use Industry and Regional Forecasts 2019-2026

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Global Magnet Wire Market is valued approximately USD 28.9 billion in 2018 and is anticipated to grow with a healthy growth rate of more than 4.1% over the forecast period 2019-2026. Magnet wire is a copper or aluminum wire coated with a very thin layer of insulation. It is used in the construction of transformers, inductors, motors, speakers, hard disk head actuators, electromagnets, and other applications that require tight coils of insulated wire. As a notable demand for high-end products at home and overseas, many organizations began to enter the field of electrical industries. Fulfilling the need of these companies requires magnet wire in large quantity, which in turn increases the demand for magnetic wire market over the forecasted period of 2019-2026.

The regional analysis of global Magnet Wire market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. Asia-Pacific is the leading/significant region across the world in terms of market share owing to the growing adoption of smart and automated technologies. Chinese magnet wire industry is not only begin to transit to high-end magnet wire products, while still extend in the resource-rich land and downstream industry chain. Factors such arising disposable income, rising demand for smart and reliable automated technologies would create lucrative growth prospects for the Magnet Wire market across Asia-Pacific region.

Global Silicon on Insulator Market Size study, by Water Size, Water Type, Technology, Application, Product and Regional Forecasts 2019-2026

Published by Bizwit Research & Consulting LLP

Price
USD 3950 Unprintable PDF by Email (Single User License) ~
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Global Silicon on Insulator (SOI) market is valued approximately USD 669.71 million in 2018 and is anticipated to grow with a healthy growth rate of more than 22.30% over the forecast period 2019-2026. Silicon on Insulator (SOI) is a wafer semiconductor technology used in manufacturing of devices which give high performance and consumes low power as compared to devices based on traditional bulk silicon techniques also helpful in reducing parasitic device capacitance. Initially, this technology was developed for military use and power application but due to good performance of computing applications in integrated manufacturer community it is now used in lighting, communication, photonics, automotive, entertainment and gaming sector. Manufacturing thin wafers by using SOI technology prevents wastage of silicon which helps in reducing the cost of semi-conductors. Effective use of SOI technology is driving the Silicon on Insulator market. Development of photo voltaic technology and increase in the investments by governments to reduce the carbon footprint will increase the demand for SOI market in near future, along with that there is scope of advancement of SOI in resisting radiation and thermal capacity. However, factors such as complex product development process, time consuming activity, vitality of raw material prices and also the high cost of raw material will hinder the Silicon on Insulator market. Furthermore, the demand is also driven by increasing demand for gaming consoles and micro-processors from emerging countries.
Global Military Sensor Market Size study, by Component, Platform, Application and Regional Forecasts 2019-2026

Published by Bizwit Research & Consulting LLP

Pub. Date 2019/07/10

Price
USD 3950 Unprintable PDF by E-mail (Single User License) ~
USD 5550 Printable PDF by E-mail (Enterprise License)

www.giiresearch.com/ce/888740

Global Military Sensor Market is valued approximately USD 23.5 billion in 2018 and is anticipated to grow with a healthy growth rate of more than 5.1% over the forecast period 2019-2026. Military sensors are smart electronic devices which are located near, on or in the soldier's body to provide intelligent services. These sensors include various features and functions such as personal networks, sensors, C4 communications, and the power to manage the systems. These devices also adopt the concept of enabling the connected soldiers which will aid them during crucial operations. The increased need for upgraded military performance and integration of high-performance miniaturized electronic systems are driving the growth of the market. The rising demand for armored vehicles and military aircraft across the globe is witness to expand the growth of the military sensors market. The smart use of technologies to assist soldiers during military operations has increased the demand of military sensor market over the forecasted period of 2019-2026.

Global Light Field Market 2019-2025

Published by Orion Market Research Pvt Ltd

Pub. Date 2019/07/09

Price
USD 3600 PDF (Single User License) ~
USD 4800 PDF (Enterprise License)

www.giiresearch.com/ce/888725

Global Light Field Market Size, Share & Trends Analysis Report by Technology (Imaging Solution and Light Field Display), by Application (Aerospace & Defense, Healthcare, Media and Entertainment, Architecture and Engineering, and Others) and Forecasts, 2019 - 2025

The global light field market is expected to expand at a significant rate over the forecast period. The market growth is attributed to its wide application in several verticals such as aerospace and defense, healthcare, media and entertainment, architecture and engineering, and others. Moreover, the growing demand for light field technology for producing visual effects in movies, rising need for prototyping and growing demand for medical imaging, and emerging 4D and 5D technologies are further expected to fuel the market growth over the forecast period. However, the lack of infrastructure support to implement the light field imaging is hampering market growth. Besides, the evolvement of VR (virtual reality) and artificial technologies and rising demand for high-definition viewing experience are creating enormous opportunities for market growth.
**Global Magnetic Flowmeters Market 2019-2023**

Published by TechNavio (Infiniti Research Ltd.)  
Pub. Date 2019/07/08  
Price  
USD 2500 PDF by E-mail (Single User License)  
USD 5000 PDF by E-mail (Global License)

www.giiresearch.com/ce/886901

Magnetic flowmeter is a transducer used to measure fluid flow by inducing voltage across the liquid through a magnetic field. Technavio's global magnetic flowmeters market analysis considers the demand from end-users such as water and wastewater, chemicals, mining and metals, food and beverages, and others. Our analysis also considers the growth of the magnetic flowmeters market in APAC, Europe, MEA, North America, and South America. In 2018, the water and wastewater segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as ability of magnetic flowmeters to measure thickened sludge and totalized flow measurement will play a significant role in the water and wastewater segment to maintain its market position. Also, our global magnetic flowmeters market looks at factors such as effectiveness of magnetic flowmeter in process industry, increasing investments in water and wastewater treatment industry, and rising demand for hygienic magnetic flowmeter. However, availability of alternatives, slowdown in investment in mining and metals industry, and technical challenges may hamper the growth of the magnetic flowmeters industry over the forecast period.

**Global Heavy-Duty Connector Market Insights, Forecast to 2025**

Published by QYResearch  
Pub. Date 2019/07/08  
Price  
USD 4900 PDF by E-mail (Single User License)  
USD 9800 PDF by E-mail (Enterprise Wide License)

www.giiresearch.com/ce/884640

High importance of industrial safety propelling the growth of the heavy-duty connector market.

The heavy-duty connector market in APAC expected to grow at the highest CAGR during forecast period.

The Heavy-Duty Connector market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Heavy-Duty Connector.

This report presents the worldwide Heavy-Duty Connector market size (value, production and consumption), splits the breakdown (data status 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter's Five Forces Analysis.
Global Night Vision System (NVS) and Driver Monitoring System (DMS) Market Insights, Forecast to 2025

Active safety systems in passenger cars are becoming more important consideration for consumers and car manufacturers.

The major factor driving the demand of automotive night vision system and driver monitoring system are, increased safety awareness and sales of luxury car, technological advancement.

The Night Vision System (NVS) and Driver Monitoring System (DMS) market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Night Vision System (NVS) and Driver Monitoring System (DMS).

This report presents the worldwide Night Vision System (NVS) and Driver Monitoring System (DMS) market size (value, production and consumption), splits the breakdown (data status 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter’s Five Forces Analysis.

Global Quantum Cascade Laser (QCL) Market Insights, Forecast to 2025

The Quantum Cascade Laser (QCL) market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Quantum Cascade Laser (QCL).

This report presents the worldwide Quantum Cascade Laser (QCL) market size (value, production and consumption), splits the breakdown (data status 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter’s Five Forces Analysis.
Global Aircraft Electrical System Market 2019-2025
Published by Orion Market Research Pvt Ltd Pub. Date 2019/07/05
Price
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Global Aircraft Electrical System Market Size, Share & Trends Analysis Report by Technology (Power Distribution, Power Generation, Energy Storage Device and Power Conversion) and by End-User (Commercial Aviation, Military Aviation and Business & General Aviation) and Forecast, 2019-2025

An aircraft electrical system is a self-contained network of components that generate, transmit, distribute, utilize and store electrical energy. The electrical system's complexity and capacity vary from piston-powered aircraft to light and single-engine aircraft to modern commercial multi-engine jet aircraft. Adoption of electric systems in place of hydraulics in aircraft is one of the major factors which drive the global aircraft electrical system market. Hydraulics is usually large in size which increases the overall weight of the aircraft. Thus, the electric system performs various functions through a distributed electric system and also reduces the weight of the aircraft. The aircraft electrical system market is segmented on the basis of technology and end-user. Further, on the basis of technology, the market is divided into power distribution, power generation, energy storage device and power conversion. Moreover, on the basis of end-user, the market is segmented into commercial aviation, military aviation and business & general aviation.

Headlight Control Module Market by Technology (Halogen, LED, Xenon), Application (On/Off, Bending/Cornering, High Beam Assist, and Headlight Leveling), Vehicle Type, Passenger Vehicle Segment, And Region- Global Forecast to 2027
Published by MarketsandMarkets Pub. Date 2019/07/05
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The headlight control module market is projected to grow from USD 3.6 billion in 2019 to USD 5.0 billion in 2027 at a CAGR of 4.3% during the forecast period. Headlight control modules are installed typically in premium vehicles and SUVs as a superior feature. The increasing sales of these cars are expected to drive the growth of the market. Moreover, consumers are becoming more aware regarding the benefits of the headlight control module like better visibility of roads, especially at night and during low-visibility weather conditions. Furthermore, the rising sales of electrified, semi-autonomous, and autonomous vehicles are expected to open new opportunities for the growth of the market over the next few years.

"Passenger vehicle segment is expected to be the fastest growing segment during the forecast period"

The headlight control modules are used mostly in passenger vehicles where the customer is aware of the benefits of adaptive headlights and is ready to invest. Moreover, advancing technology catering to this vehicle segment coupled with quick consumer adaptability for these modules is expected to drive the growth of the market during the forecast period.
Photonics Market by Product Type (LED and Lasers, Detectors, Sensors & Imaging Devices), Application (ICT and Production Tech.), End-Use Industry (Media, Broadcasting & Telecommunication and Consumer & Business Automation) - Global Forecast to 2023

Published by MarketsandMarkets Pub. Date 2019/07/04

Price
USD 5650 PDF by E-mail (Single User License) ~
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The photonics market is projected to grow from USD 556.4 billion in 2018 to USD 780.4 billion by 2023, at a CAGR of 7.0%. The increased demand for photonics in applications such as displays, information & communication technology, photovoltaic, medical technology & life sciences, measurement & automated vision, lighting, and production technology is expected to drive the growth of the photonics market across the globe. Improved properties, such as better energy efficiency and longer lifespan, contribute to the increased demand for photonics. Growing digitalization and increasing preference for smart infrastructures and smart manufacturing are driving the consumption of these products in the global market. Regulations on some chemical substances used in the manufacturing of photonics products act as a restraint for the photonics market growth.

“The production technology application segment is projected to grow at the highest CAGR from 2018 to 2023.”

Among the applications, production technology segment of the photonics market is projected to grow at the highest CAGR during the forecast period, in terms of value. This expected high growth is attributed to the increasing use of photonics products to improve the process and energy efficiency of production technologies. Increasing adoption of digital model in production workflows resulting in smart manufacturing is also a driving factor for the market

Global Nanomechanical Testing Market 2019-2025

Published by Orion Market Research Pvt Ltd Pub. Date 2019/07/03

Price
USD 3600 PDF (Single User License) ~
USD 4800 PDF (Enterprise License)

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Nanomechanical testing market is expected to register significant growth over the forecast period due to the growing demand for various testing materials to understand their properties. Nanomechanical testing is used to study the fundamental mechanical properties of materials at nanometer levels with the help of advanced technique and equipment. The nanomechanical testing finds its application in nanopowders, nanotubes, nanocoating, and nanocomposite materials. The surge in demand for nanotechnology-based components has led to the adoption of nanomechanical testing techniques and equipment among various industry verticals resulting in the increased market share of nanomechanical testing. Moreover, nanomechanical testing being a relatively newer field of interest in the array of industries, therefore, to analyze the mechanical properties of nanomaterials and to ensure they impart effective performance in the real-time condition under severe environmental conditions is important. The growing demand of nanocoating in high-temperature applications such as aerospace engine component production, nuclear reactor cladding, and many other applications has led to the increased traction of testing of nanomaterials under high-temperature.
The global Automotive HUDs market was valued at 796.22 million US$ in 2018 and will reach 2460.88 million US$ by the end of 2025, growing at a CAGR of 17.88% during 2019-2025.

This report studies the global Automotive HUDs market status and forecast, categorizes the global Automotive HUDs market size (value & volume) by key players, type, application, and region. This report focuses on the top players in North America, Europe, China, Japan, Southeast Asia, India and Other regions (Middle East & Africa, Central & South America).

Major Automotive HUDs manufacturers covered in this report:

- Nippon Seiki
- Yazaki Corporation
- Bosch
- Visteon Corporation
- Garmin
- Pioneer Corp
- Springteq Electronics
- Coagent Enterprise
- RoadRover Technology
- Continental
- Denso
- Aptiv
- E-Lead
- HUDWAY
- Hudly
- Kivic
- Founder

This report studies the Electric Linear Actuators market size in Asia-Pacific, split the market size into major countries, China, Japan, South Korea, India, Southeast Asia.

This research report categorizes the Asia-Pacific Electric Linear Actuators market by top players/brands, countries, type and end user. This report also studies the Asia-Pacific Electric Linear Actuators market status, competition landscape, market share, growth rate, future trends, market drivers, opportunities and challenges, sales channels and distributors.

The Asia-Pacific Electric Linear Actuators market is valued at 1012.05 million US$ in 2018 and will reach 1402.44 million US$ by the end of 2025, growing at a CAGR of 4.77% during 2018-2025. In terms of volume. The objectives of this study are to define, segment, and project the size of the Electric Linear Actuators market based on company, product type, end user and key regions.
Global Transient Voltage Suppressor (TVS) Diodes Market Insights, Forecast to 2025

Published by QYResearch

Price
USD 4900 PDF by E-mail (Single User License) ~
USD 9800 PDF by E-mail (Enterprise Wide License)

This report studies the Transient Voltage Suppressor (TVS) Diodes market status and outlook of global and major regions, from angles of manufacturers, regions, product types and end industries; this report analyzes the top manufacturers in global and major regions, and splits the Transient Voltage Suppressor (TVS) Diodes market by product type and applications/end industries.

The global Transient Voltage Suppressor (TVS) Diodes market is valued at 662.29 million USD in 2017 and is expected to reach 1059.10 million USD by the end of 2025, growing at a CAGR of 6.04% between 2017 and 2025.

The major players in global Transient Voltage Suppressor (TVS) Diodes market include:

- Vishay
- Littelfuse
- BrightKing
- Amazing
- STMicroelectronics
- ON Semiconductor
- WAYON
- NXP
- Diodes Inc.
- Bourns
- Infineon
- LAN technology
- ANOVA
- SEMTECH
- MDE
- TOSHIBA
- UN Semiconductor
- PROTEK
- INPAQ
- EIC
- SOCAY
Advanced driver assistance systems (ADAS) are vehicle-based intelligent safety systems that improve road safety in terms of crash avoidance, crash severity mitigation, protection, and post-crash phases.

The progression towards autonomous vehicles as one of the primary factors that will trigger the growth of the automotive ADAS sensors market in the coming years. Major OEMs and tier 1 players are working on developing automated driving and this is influencing the incorporation of ADAS sensors in vehicles. Manufacturers are taking aggressive steps to achieve level 3 and level 4 vehicle automation standards.

Global Automotive ADAS Sensors market size will reach xx million US$ by 2025, from xx million US$ in 2018, at a CAGR of 20.8% during the forecast period. In this study, 2018 has been considered as the base year and 2019-2025 as the forecast period to estimate the market size for Automotive ADAS Sensors.

This industry study presents the global Automotive ADAS Sensors market size, historical breakdown data (2014-2019) and forecast (2019-2025). The Automotive ADAS Sensors production, revenue and market share by manufacturers, key regions and type;

The Integrated Circuit (IC) is a type of semiconductor device that is also known as a microchip, which usually is made consists of resistors, capacitors, and transistors. They have various applications, and one such utility is their functions as microcontrollers in the automobiles. Therefore, the Automotive ICs are customized for specific applications within the vehicle system.

The global market for Automotive ICs is expected to proliferate at a CAGR of 9.82% during the forecast period of 2019-2027. The market is expected to capture $XX million by the end of 2027, and it had procured a total of $XX million in the base year 2018.

MARKET INSIGHTS:

Rapid electrification of vehicles, growing demand of advanced sensors in vehicles, the increased usage of electronic control units (ECU’s) in vehicles, the rising adoption of electric vehicles and the disruptive innovations such as ADAS, connected vehicle technology & autonomous vehicles are expected to drive the market growth at significantly strong rates.

However, factors such as design complexities, increasing cost pressure on vehicle manufacturers & the cyclic nature of the semiconductor industry are severely restricting the market advancement.
**Global Automotive Window Display System Market Insights, Forecast to 2025**

Automotive window display system also known as the heads up display (HUD) or active glass is any transparent display that provides necessary and useful information to the driver. The driver can gather information, such as the speed of the car, tire pressure, fuel left, weather report, visibility, and direction so that he or she can focus on their usual viewpoint, thereby reducing the chance of accidents.

Global Automotive Window Display System market size will reach xx million US$ by 2025, from xx million US$ in 2018, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019-2025 as the forecast period to estimate the market size for Automotive Window Display System.

This industry study presents the global Automotive Window Display System market size, historical breakdown data (2014-2019) and forecast (2019-2025). The Automotive Window Display System production, revenue and market share by manufacturers, key regions and type;

The consumption of Automotive Window Display System in volume terms are also provided for major countries (or regions), and for each application and product at the global level. Market share, growth rate, and competitive factors are also evaluated for market leaders AUDI, Daimler, etc.

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**Global Automotive Heads-up Display (HUD) Market Insights, Forecast to 2025**

An automotive head-up display or automotive heads-up display -also known as a auto-HUD- is any transparent display that presents data in the automobile without requiring users to look away from their usual viewpoints.

Global Automotive Heads-up Display (HUD) market size will reach xx million US$ by 2025, from xx million US$ in 2018, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019-2025 as the forecast period to estimate the market size for Automotive Heads-up Display (HUD).

This industry study presents the global Automotive Heads-up Display (HUD) market size, historical breakdown data (2014-2019) and forecast (2019-2025). The Automotive Heads-up Display (HUD) production, revenue and market share by manufacturers, key regions and type;

The consumption of Automotive Heads-up Display (HUD) in volume terms are also provided for major countries (or regions), and for each application and product at the global level. Market share, growth rate, and competitive factors are also evaluated for market leaders Panasonic, Nippon Seiki, etc.
Automotive emission sensors are widely used in all types of automobiles from passenger cars to heavy commercial vehicles.

Oxygen sensors and Nitrogen oxide sensors are the widely used sensors in modern vehicles today. Among these gas sensors, adoption of oxygen sensors is found in almost all automobiles manufactured today.

Global Automotive Emission Sensor market size will reach xx million US$ by 2025, from xx million US$ in 2018, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019-2025 as the forecast period to estimate the market size for Automotive Emission Sensor.

This industry study presents the global Automotive Emission Sensor market size, historical breakdown data (2014-2019) and forecast (2019-2025). The Automotive Emission Sensor production, revenue and market share by manufacturers, key regions and type;

The consumption of Automotive Emission Sensor in volume terms are also provided for major countries (or regions), and for each application and product at the global level. Market share, growth rate, and competitive factors are also evaluated for market leaders Bosch, Denso, etc.
**Embedded Boards, Modules and Systems: The Basis for Application Value**

Published by VDC Research Group, Inc.  
Pub. Date 2019/06/30

Price
USD 10000 Web Access - PDF & Excel (Standard Team License 1-5 Users) ~
USD 12500 Web Access - PDF & Excel (Corporate License)

www.giiresearch.com/ce/888099

What questions are addressed?

- Who leads the markets for embedded boards, modules, and integrated computer systems?
- How will form factor fragmentation evolve and impact competition in the future?
- Where are boards and systems providers expanding their developer and application support?
- Why are some market leaders at risk of losing their positioning?
- Which industries face the most competition from captive/OEM in-house engineering solutions?
- What do engineers and developers care most about the embedded hardware they are sourcing?

Vendors Listed In This Report


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**Global Biosensors Market (2019-2025)**

Published by KBV Research  
Pub. Date 2019/06/30

Price
USD 3600 PDF by E-mail (Single User License) ~
USD 4320 PDF by E-mail (Site License)

www.giiresearch.com/ce/888236

The Global Biosensors Market size is expected to reach $34.3 billion by 2025, rising at a market growth of 8.6% CAGR during the forecast period.

Biosensors are devices which combine biological components for detecting an analyte and a physicochemical component in order to produce a measurable signal. Currently, the most common biosensors are home pregnancy tests and glucose detectors. There is however, a drive to produce novel biosensor technologies for several applications like food analysis, deoxyribonucleic acid testing, and drug detection. Thin films make these sensors increasingly small and with fewer detection limits.

The major factors driving the growth of this biosensors market are the growing use of biosensors to monitor glucose levels in individuals with diabetes and rising demand for disposable, cost-efficient & user-friendly devices of the market are furthermore boosting the growth of the global biosensor market. The biosensors market in the Asia Pacific region is gaining major traction.
World Consumer Market for Connectors 2019

Published by Bishop & Associates, Inc.  
Price  
USD 3250 Hard Copy  
USD 4225 Hard Copy & Electronic Delivered PDF (Corporate License)  
www.giiresearch.com/ce/883586

- How has the consumer appliance market changed over the last five years? How is this market anticipated to change in the next five years, the next 10-years? What factors are driving these changes? What role do interconnect products play in the future of the consumer appliance market? What is driving the rise and fall of the personal computer and tablets market, the consumer mobile phone and watch markets? Over the next ten years, which of these markets have the potential for the greatest growth in units? How will this growth affect the number of connectors currently being consumed in the manufacturing of these products? What unique product enhancements will drive the growth of the television market? Which I/O's will prevail, and which ones will be replaced or incorporated into other connector products? How will these changes affect the number of connectors used in this market?

Bishop & Associates latest research report, 'World Consumer Market for Connectors - 2019' examines the technology, products, and outside influences that are shaping the consumer market. Individual chapters are devoted to the connected home appliance market, consumer mobile phone and watch markets, as well as the HD/UHDTV from 1080P to 8K, and the personal computer and tablet markets.

Opportunities for Sensors in Digital Farming

Published by Frost & Sullivan  
Price  
USD 4950 Web Access (Regional License)  
www.giiresearch.com/ce/883652

Digital farming is a developing concept in the field of agriculture. Unlike conventional methods, where the farmers decision making is based on his/her intuition, digital farming provides quantitative suggestion. The data collected using various enabling technologies helps the farmers in recognising outlines, based on which strategic decisions can be made. Also, with the evolution of smartphones, and Internet-of-Things (IoT), members of the agricultural value chain can assess the data collected from the farms in their smart devices, thereby leading to connectivity and convergence.

Digital farming technologies facilitates the reduction in the amount of water and fertilizers utilized which decreases the operational expenditures and increases the return of investment even for small scale farmers.

Key Questions Answered in the Technology and Innovation Report:

1. What is the significance of digital farming in agriculture sector ?
2. What are the key enabling technologies?
3. What are the factors that influence technology development and adoption?
4. Who are the key innovators driving developments?
5. What are the opportunities based on patent and funding trends?
6. What are the future prospects of the technology?
7. What sort of strategies do OEMs need to embrace to gain entry and sustain in the competitive marketplace?
The evolution of AMOLED conduces to the steady development of 3D curved glass market. In 2018, the global 3D glass market expanded 37.7% on an annualized basis and reached $1.9 billion, a figure projected to soar to $2.7 billion in 2019 and more than $8.0 billion in 2025. It is notable that the Chinese 3D glass market size was approximately RMB2.4 billion (or $360 million by the exchange rate 1:6.6174) in 2018, surging by 59.1% from a year ago and a 19.2% share of the global total, with an expected AAGR of 20%-30% between 2019 and 2025.

In 2018, at least 30 million pieces of 3D glass were needed in China, growing at a pace of above 60%, over 94% of which was from smart phones and the remaining 6% from wearable devices, VR, dashboard, among others. Till 2025, the demand for 3D glass will outnumber 170 million pieces as it gets used widely, largely due to the following:

Firstly, AMOLED screen finds wider application in smart phones, spurring the need for 3D cover glass. In 2018, AMOLED screen enjoys a penetration rate of a critical 20% in smart phones and has been the standard configuration of the top five cellphone brands' flagship models. AMOLED screen is commonly seen in Huawei and Xiaomi handsets.

The precision forestry market was worth USD 3.9 billion in 2019 and is projected to reach USD 6.1 billion by 2024, at a CAGR of 9.0% during 2019-2024. The major factors driving the growth of the precision forestry market are increasing mechanization in emerging countries of Asia Pacific & Africa, rising construction activities, growing demand for timber from sawmills, decreasing cost of forestry mapping technologies, prevention of illegal logging and deforestation; and increasing government support towards digitalization of forest. Precision forestry has the potential to transform the forestry industry by making traditional activities more efficient and economical. Also, government initiatives in many countries are helping foresters adopt advanced technologies and tools for site-specific management of the forest.

The market for inventory & logistics management estimated to grow at highest CAGR during the forecast period

The market for inventory & logistics is expected to grow at the highest CAGR from 2019 to 2024. Major factors fueling the growth of inventory & logistics management are increasing the demand for valuation of forests and tracking of logs during the transportation phase. Inventory & logistics management data such as wood volume, number of logs, and log diameters are available in digital form for reducing manual errors; enabling quick reporting and data processing.
Sensor Innovations Transforming Healthcare Sector

Published by Frost & Sullivan
Price USD 4950 Web Access (Regional License)

The Internet of Things (IoT) is witnessing a large-scale realization with the growing importance of sensor technologies in healthcare and the increasing consumer demand for non-invasive and continuous monitoring of health parameters. Connected networks are enabling ease of diagnosis in healthcare thereby creating a shift from reactive treatments to a more preventive healthcare treatment. Advancements in sensor technologies are further influencing adoption of sensor-based innovations in healthcare, which have a wide range of applications ranging from heart rate monitoring to performing surgeries.

Technologies in the wearable sensors segment, which include wrist-worn wearables, sensor patches, smart fabrics, smart contact lens, and heads-up displays (HUDs) are paving the way for easily accessible, continuous, and low-cost healthcare monitoring, which can warn users in the case of critical conditions and help save lives. The developments of these technologies will result in their increased adoption globally.

Assessment of Electronics, Sensors, and Manufacturing Start-up Ecosystem in India

Published by Frost & Sullivan
Price USD 4950 Web Access (Regional License)

Asia is one of the largest contributor to global electronics industry with its expertise in semiconductor fabrication. But India has never entered into this scenario even though its is one of the world’s largest consumer of electronic goods. Hence the assessment of the reasons behind the lack of India's presence in global electronics economy is quintessential at this point in order to build a future prospects of the country in electronics. As the Silicon Valley became the startup hub for the US, India is building its own startup cities such as Bangalore which houses some of the prominent startup companies such as Mymo Wireless and Tejas Networks. The government initiatives to nurture the startup ecosystems are also highlighted in this report.

This report offers insights on the startup ecosystem in India in electronics sector. The scope of this research service focuses mainly on assessing the current scenario of electronics in Asian countries such as China, South Korea, Taiwan, Thailand and Vietnam and how India fares in comparison to them. In the Indian context, the report offers key areas being pursued by startups in sensors, electronics and electronic manufacturing sectors and some of the successful enterprises emerged from the ecosystem. Finally, the opportunities offered for startups in India is being discussed.
Global Automotive Intelligent Tire and Sensor Market: Focus on Sales Channel, Vehicle Type, and Geography- Analysis & Forecast, 2019-2024

Key questions answered in this report:

• What was the total revenue generated by the global automotive intelligent tire and sensor market for autonomous in 2018 and how is it expected to grow during 2019 - 2024?
• What are the key patents in the automotive tire and sensor industry?
• What are the major driving forces, trends, challenges and growth opportunities that can tend to influence the global automotive intelligent tire and sensor market during the forecast period, 2019-2024?
• What is the volume and value of intelligent tires and sensors for different types of vehicles such as passenger cars, and commercial vehicles (heavy trucks and heavy buses)?
• What are the key developments by the leading players in the automotive tire and sensor industry?
• What is the volume and value of intelligent tires and sensors for different types of sales channels?
• What is the market size of different regions such as North America, Europe, Asia-Pacific, and Rest-of-the-World (RoW)?

5G Chipset Market to 2027 - Global Analysis and Forecasts by Type (Operation Frequency); Product ; End-User

The global 5G chipset market is estimated to account to US$ 1.03 Bn in 2019 and is expected to grow at a CAGR of 41.0% during the forecast period 2020 - 2027, to account to US$ 22.86 Bn by 2027. The global 5G chipset market is experiencing steady growth in the forecast period. The semiconductor industry rapidly growing owing to the surge in demand in range of industries such as automobile, industrial manufacturing, defense, and consumer electronics including others. The production of smartphones, PC, and several computing devices demand for advanced semiconductor technologies including 5G chipset. The increasing number of partnerships among automotive and chipset manufacturers are positively impacting on the growth of 5G chipset market. For instance, in 2018, HCL Technologies signed a partnership with Broadcom Inc. According to the partnership Broadcom's services will transaction to HCL and Broadcom customers would have access to HCL Tech’s technological expertise. Thus, it impact the growth of 5G chipset market in the current scenario.
The Asia Pacific AI Chip market accounted for US$ 1.03 Bn in 2018 and is expected to grow at a CAGR of 40.9% over the forecast period 2019-2027, to account for US$ 22.27 Bn in 2027. The increase in digitalization, presence of the huge amount of data, and significant adoption of advanced technologies by various industries are the key drivers that are propelling the growth of the AI Chip market. Moreover, the increase in the integration of cloud-based computing across industries and the proliferation of edge devices are expected to boost the AI Chip market growth in the forecast period. All the major industries across are globe including BFSI, retail, IT & telecom, automotive & transportation, healthcare, media & entertainment, manufacturing, government, energy & power are embracing and investing in disruptive technologies such as artificial intelligence, IoT, big data, and predictive analytics among others. This adoption is driven by the successful use cases of AI, which resulted in increased operational efficiency, better sales revenue, and improved customer experiences.

The North America AI chip market accounted for US$ 2.50 Bn in 2018 and is expected to grow at a CAGR of 32.0% over the forecast period 2019-2027, to account for US$ 30.62 Bn in 2027. The increase in data generation due to the increasing proliferation of digital services is the key driver that is driving the growth of the AI chip market. Moreover, the adoption of cloud-based AI solutions is expected to boost the AI chip market growth in the forecast period. Artificial intelligence and its applications such as machine learning and deep learning have been growing tremendously over the last few years. AI is being utilized extensively in numerous areas ranging from cloud computing applications to digital assistants and self-driving/autonomous vehicles. With ever increasing use cases of AI and the evolving market landscape, the advancements in present chips have become a necessity. AI is majorly used in data center training market where NVIDIA is a market leader. However, the inference on edge and data center are the fast-growing segments in AI chip market, and many new start-ups are coming up to tap this market. The innovative technologies and solutions offered by these start-ups are going to intensify the competition in the AI chip market and challenge the market leaders like NVIDIA and Intel. The funding scenario is looking good for these start-ups majorly due to the huge interest of global industries in artificial intelligence and its capabilities to transform business processes.
The Europe AI chip market accounted for US$ 1.25 Bn in 2018 and is expected to grow at a CAGR of 33.0% over the forecast period 2019-2027, to account for US$ 16.04 Bn in 2027. The considerable investments in artificial intelligence chip start-ups are anticipated to boost the market growth. Real-time consumer behavior insights and increased operational efficiency are driving the adoption of AI across industries that are further driving the growth of the AI chip market. Moreover, the integration of AI chips in edge devices is expected to boost the AI chip market growth in the forecast period. With AI accelerators evolving at an unprecedented rate, new hardware platforms are being optimized to facilitate greater autonomy to edge devices such as mobiles, embedded, and internet of things (IoT) devices. The proliferation of smartphone-embedded AI processors by tech giants like Apple, Samsung, and Google is already gaining traction and driving the growth of AI chip market in edge devices. AI robotics is another noteworthy application of artificial intelligence, which is driving the growth of AI chips in self-driving cars, drones, smart appliances, and industrial IoT. Major companies such as NVIDIA, Apple, Google, Huawei, and Intel in the AI chip market for edge devices are showing interest as well as investing in edge inferencing. With all these developments, it is expected that edge computing is going to be the growth driver for future adoption of AI chips.
The SOI market is projected to grow from USD 894 million in 2019 to USD 2,186 million by 2024, at a CAGR of 19.6% from 2019 to 2024. The growth of the SOI market can be attributed to the increasing investments by wafer manufacturers and foundry players in the SOI ecosystem. However, the floating body and self-heating effects in SOI-based devices act as major restraints for the growth of the market. Growing integrated chip industry and expanding SOI ecosystem in the Asia Pacific region are expected to pose as growth opportunities for the SOI market during the forecast period. Effective maintenance of thickness uniformity of 200 mm and 300 mm wafers and other parameters acts as a major challenge for the growth of the SOI market across the globe.

"The SOI market for 300 mm wafer size is projected to grow at a higher CAGR than the market for 200 mm and less than 200 mm wafer size during the forecast period."

Based on wafer size, the 300 mm segment of the SOI market is projected to grow at a higher CAGR than the 200 mm and less than 200 mm segment during the forecast period. Manufacturers of Radio Frequency (RF) chips including Qualcomm (US), Broadcom (US), Qorvo (US), Skyworks Solutions (US), and Murata Manufacturing (Japan) have undertaken several initiatives to increase their production of 300 mm wafers. Moreover, wafer players are also expanding their 300 mm wafer manufacturing capacity. For instance, in 2016, Soitec (France) expanded its manufacturing capacity for the production of 300 mm SOI wafers. Foundries such as GlobalFoundries (US), TowerJazz (Israel), TSMC (Taiwan), and UMC (US) are also expanding their RF-SOI manufacturing processes for 300 mm wafers.
The quality certifications (ISO checks, NSQHS, etc.) for certain products require them to be handled in a cleanroom environment, for minimized levels of possible contamination. So, the dependency on cleanroom technology has witnessed significant popularity to meet the respective contamination check requirements.

The global cleanroom technology market is anticipated to grow at a CAGR of 5.53% from 2019 to 2027 and to generate revenue of $XX by 2027. The forecast period for this market study has been considered from 2019-2027. The chief driver that is responsible for the advancement of the global cleanroom technology market has been the increasing awareness about the significance of cleanroom technology.

MARKET INSIGHTS:

The rising awareness about the significance of cleanroom technology, growing concern about the quality and safety of the products, and the advancements in technology are primarily driving the growth rate in the global market. Variable regulations and standards from different governments and the lack of skilled workforce for the management of the cleanroom technology are the major factors that are withholding the cleanroom technology market growth in the current market scenario. Absolute fluctuations in government regulations, especially in the edible product business, are restricting the adoption of cleanroom technology.
Non-Conductive Ink Market by Substrate (Glass, Ceramic, Acrylic), Application (PCB Panels, PV Panels, Led Packaging), and Region (North America, Europe, APAC, Middle East & Africa, South America) - Global Forecast to 2024

The global non-conductive ink market is estimated to be USD 403 million in 2019 and is projected to reach USD 560 million by 2024, at a CAGR of 7% during the same period. The increasing demand for non-conductive inks due to growing printed circuit board production is expected to drive the demand for non-conductive ink.

Glass accounted for the largest share of the non-conductive ink market.

Glass substrate is projected to be the largest segment of the non-conductive inks market during the forecast period. The growth of the segment is attributed mainly to excellent printability. In electronics application, glass substrates are preferred in displays and photovoltaics.

PCB Panel is the fastest-growing application segment of the non-conductive ink market.

PCB panels are projected to be the largest and the fastest-growing application segment of non-conductive inks during the forecast period. This growth is attributed mainly to the growing production of PCB panels. PCB panels are used in medical devices, consumer electronics, automotive, aerospace, and lighting applications. The growth of these industries is expected to drive the non-conductive inks market.

Global Hospital Lighting Market 2019-2025

Lighting is a foremost important feature for patients and staff in hospitals. Many leading hospitals are focussing on lighting conditions to enhance user experience, as it affects the human body both physiologically and psychologically. There is a high growth opportunity in this market due to the rapid upgradation in healthcare infrastructure with increase in demand for technologically advanced healthcare facilities. Additionally, the government funding for better healthcare infrastructure by incorporating LED technology for energy saving and efficient lighting, is augmenting the growth of the market. However, the high cost of the device along with product recall due to technical failure are some of the factors restraining the growth of the hospital lighting market.
Flexible Hybrid Electronics: R&D Portfolio and Opportunity Analysis

Unlike conventional electronics that comprise rigid components, flexible hybrid electronics (FHE) is a new category of electronics enabling compact and flexible electronics. Enabling high density integration of components with advanced manufacturing techniques, FHE has potential to be cheaper than conventional electronics with advancing research in material science and manufacturing technologies.

Early developers of FHE-relevant technologies are poised to achieve competitive advantages over their peers and have more potential for added revenue streams by licensing proprietary technologies.

This technology and innovation research service discusses R&D portfolio areas and the various challenges for manufacturing and commercialization of FHE and R&D strategies. The research service also discusses various R&D initiatives of stakeholders and growth opportunities. Key questions addressed in the research service include:

- What is the significance of FHE technology?
- What are key R&D portfolio areas?
- Which are the industries poised to be impacted by FHE in the near term?
- What are the key innovation areas of FHE?
- What is the patent and funding scenario in the FHE space?
- What types of strategies do stakeholders need to undertake to strengthen technologies?
- What are the key takeaways from the emerging categories of the electronics industry?

Global Digital Signage Market 2019-2025

Digital signage is comprised of the screen that is installed in public spaces, which can be managed over the local area network (LAN), Wide area network (WAN), virtual proxy network (VPN or across the internet. Digital signs are typically used to entertain, inform or advertise in the various sectors, such as media & entertainment and commercial sector. The benefits of digital signs over conventional static signs are that the content can be changed without effort and animations can be shown easily. Increasing adoption of digital signage in the commercial industry and technological advancements in display technology such as the introduction of 4K and 8K displays are certain factors contributing to the growth of the digital signage market.
**Breakthrough Sensor Innovations in L4 and L5 Autonomous Driving**

Published by Frost & Sullivan  
Price: USD 4950 Web Access (Regional License)

Level 4 autonomous vehicles or self driving vehicles have a high level of automation in which the vehicle can perform all driving tasks and monitor the driver’s environment. The vehicle can operate without the driver’s inputs or oversight under certain conditions, such as type of road or geographic area. Level 5 autonomous vehicles have full automation; the vehicle can perform all of the driving under all circumstances (types of roads and conditions) without any guidance or input from the driver. This research study aims to provide an in-depth view of the technologies which will enable L4 and L5 autonomous driving in the near future. The current level of autonomous driving and unmet needs in technology development for L4 and L5 autonomous driving are evaluated. The recent advancements in sensors for autonomous driving such as LiDAR and Radar, and sensor fusion technologies are also captured. The impact on the advancement of sensors and sensor fusion technologies toward the realization of driverless vehicles is also discussed in the report.

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**Global Aircraft Sensors Market 2019-2025**

Published by Orion Market Research Pvt Ltd  
Price: USD 3600 PDF (Single User License) ~ USD 4800 PDF (Enterprise License)

Global Aircraft Sensors Market Size, Share & Trends Analysis Report by Sensor Type (Pressure Sensors, Temperature Sensors, Speed Sensors, Force Sensors, and Others), by Application (Air Pressure Level Detection, Flight Controls, Landing Gears, Door and Slides Locking, and Others), and by Aircraft Type (Military Aircraft and Commercial and Business Aircraft) and Forecast, 2019-2025

Aircraft sensors provide reliable, efficient and economical operation for the aircraft. It assists in the measurement of the physical quantity and converts it into digital signals which can later be interpreted. The sensors installed in the aircrafts identify even slight variations in the aircraft system or in the environment which can lead to severe mishap. Sensors are necessary for both safety and operational purposes. Modern aircraft incorporates various sensors to determine their operational parameters in the sense to monitor engine condition and electronic performance monitoring. For instance, a propulsion and space sensors are used for critical flight measurements and engine control system. Temperature sensors are used for observing the conditions of fuels, hydraulic oils, refrigerants and temperature in environmental cooling systems.
Global Next-Generation Anode Materials Market: Focus on Material Type {Silicon/Silicon Oxide Blend, Lithium Titanium Oxide (LTO), Silicon-Carbon Composite, Silicon-Graphene and Others}, Applications, and Patents- Analysis and Forecast, 2019-2029

Published by BIS Research Inc.  
Price  
USD 5000 Unprintable PDF by E-mail (Single User License)  
USD 8000 Printable PDF and Excel by E-mail (Enterprise-wide License)

Global Next-Generation Anode Materials Market to Grow at a CAGR of 16.96%, in Value, from 2019 to 2029

Key Questions Answered in the Report:

• What was the total revenue generated by the global next-generation anode material market for autonomous in 2018 and how is it expected to grow during 2019 - 2029?
• What are the major driving forces, trends, challenges and growth opportunities that can tend to influence the global next-generation anode market during the forecast period, 2019-2029?
• How does the supply chain function in the next-generation anode materials market?
• Which are the key application areas from which different next-generation anode materials experienced high demand in 2018, and which application areas should be targeted by the manufacturers of different types of products during the forecast period, 2019-2029?
• Which regions and countries are leading in terms of consumption of next-generation anode materials, and which of them are expected to witness high demand growth from 2019-2029?
• Which companies have been actively involved in innovation through patent applications, and which products have witnessed maximum patent applications during the period 2014-2018?...
Class D Audio Amplifier Market by Device (Smartphones, Television Sets, Home Audio Systems, and Automotive Infotainment Systems), Amplifier Type (Mono-Channel, 2-Channel, 4-Channel, 6-Channel), End-user Industry, and Geography - Global Forecast to 2024

Published by MarketsandMarkets
Pub. Date 2019/06/24
Price
USD 5650 PDF by E-mail (Single User License) ~
USD 10000 PDF by E-mail (Global License)

The class D audio amplifier market is expected to grow from USD 2.3 billion in 2019 to USD 3.6 billion by 2024 at a CAGR of 9.5%. The growth of this market can be attributed to the increasing demand for consumer electronics and smart home devices, increasing traction toward in-vehicle infotainment systems in automobiles, and rise in demand for energy-efficient technologies or components in portable and compact devices. However, reduced price margin due to highly fragmented market environments is restraining the market growth.

"Home audio systems to register highest CAGR in overall market during forecast period"

Large adoption of class D audio amplifiers in home audio systems can be attributed to the continuous technological innovations in these systems and increasing consumer demand for high-performance home theaters, which is associated with their rising disposable income. In addition, developments in Wi-Fi and Bluetooth speakers, and dedicated speaker docks are expected to increase consumer spending on audio equipment for enhanced audio quality.

Ion Beam Technology Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast 2019 - 2027

Published by Transparency Market Research
Pub. Date 2019/06/21
Price
USD 5795 PDF by E-mail (Single User License) ~
USD 11795 PDF by E-mail (Corporate License)

Transparency market research (TMR) recently released a business intelligence report on the ion beam technology market. The report covers an in-depth analysis of the growth drivers, restraints, opportunities, and challenges in the ion beam technology market. It also includes extensive research on the latest market trends to determine how the growth of the ion beam technology market will unfold during the period of 2019-2027.

TMR’s study analyzes the key changes in consumer behavior, and their impact on the business development strategies adopted by market players. The ion beam technology market has been analyzed at both, qualitative and quantitative levels, to provide all-inclusive insights that can equip stakeholders with necessary facts and figures to take well-informed decisions and build effective growth strategies.

In the report, readers can find a detailed taxonomy of the ion beam technology market, along with a competitive analysis of the market players. TMR’s study profiles a list of companies operating in the ion beam technology market, wherein, product innovation, new launches, and the development and expansion strategies of these players have been detailed.
Global Aircraft Electric Power Systems Market, Forecast to 2023

The commercial aircraft electric power systems (EPS) market will witness growth due to increasing adoption of electrical systems over pneumatic and hydraulic systems. Electrification is a major trend and the number of companies investing is growing. The competitive landscape is expected to change significantly in the next few years and market consolidation is expected to intensify. The market was worth $2.47 billion in 2018, and revenue is expected to reach $2.93 billion by 2023, at a compound annual growth rate (CAGR) of 3.5%, although the revenue trajectory varies by every product segment.

Research Scope:

The research focuses on the commercial aircraft electrical power systems (EPS) market for power generation, power conversion, power distribution, motorisation, and electric storage systems. The research covers the global market and provides a 5-year forecast on where the industry is headed between the timeline 2018-2023. The EPS forecast is based on the aircraft production forecast for narrow-body, wide-body, regional jet, regional turbo prop, and business jet platforms.

Position Sensor Market by Type (Linear Sensor and Rotary Sensor), Application (Machine Tools, Robotics, Motion Systems, Material Handling, Test Equipment), Contact Type, Output, End-User Industry, and Geography - Global Forecast to 2024

The overall position sensor market is expected to grow from USD 4.7 billion in 2018 to USD 7.3 billion by 2024; it is estimated to record a CAGR of 8% during the forecast period. Key factors driving the growth of this market include increasing focus of the manufacturing industry on accurate measurements and detailed inspection, growing adoption of position sensors in the aviation & aerospace industry, and rising demand for position sensors to deploy in modern automobiles. However, the high cost of ownership is likely to act as the restraint for the market’s growth.

"Linear position sensors to witness higher CAGR in position sensor market during forecast period"

The market for linear position sensors is expected to grow at a higher CAGR than that of rotary position sensors during the forecast period. Increasing demand for linear position sensors in various applications and equipment, such as machine tools, measuring and test equipment, automated machinery, robotics, and motion systems is the major factor contributing to the growth of the linear position sensor market.

"Robotics application to witness highest CAGR in position sensor market during 2019-2024"

The robotics application is expected to exhibit the highest CAGR in the overall position sensor market during the forecast period. Increased usability of position sensors as encoders, potentiometers, and resolvers for sensing and controlling the position of robots, as well as for designing robots, has contributed to the increased demand for positions sensors in robotics applications.
Transparency Market Research (TMR) recently published a market study on the global market for silicon capacitors. The market study presents thorough information, and it elucidates how the silicon capacitors market is expected to expand during the forecast period of 2019-2027.

This market research report conducted by TMR offers insights about the various factors driving demand, with the help of a detailed analysis of the silicon capacitors market. An extensive analysis of the key industry drivers, market trends, challenges, and market structure is also included in the silicon capacitors market report.

Key indicators of silicon capacitors market growth, including supply chain analysis, Compound Annual Growth Rate (CAGR), Year-on-Year (Y-o-Y) growth, and value chain analysis are assessed in detail in the study, to help readers understand the growth prospects of the silicon capacitors market for the assessment period.

In this study, readers can find accurate and unique information on the salient growth prospects of the silicon capacitors market, to help companies to make value-based business decisions. TMR’s study on the silicon capacitors market also offers a comprehensive assessment of the popular business strategies adopted by leading stakeholders in the market, and sheds light on the imperatives for succeeding in the silicon capacitors market.
Growing adoption of automation; rising demand from emerging economies; and increasing defense expenditure are among major driving factors for motion sensor market.

The motion sensor market is expected to reach USD 9.3 billion by 2025 from USD 5.7 billion in 2019, at a CAGR of 8.3%. This growth can be attributed to the growing trend of automation, increasing demand for motion sensors from emerging economies, and surging expenditure in defense. Factors restraining the growth of the motion sensor market are time-consuming manufacturing processes and high cost of motion sensors.

Other applications to grow at highest CAGR during forecast period in motion sensor market

Based on the application, the market for other applications is expected to grow at the highest CAGR during the forecast period. This is because of increasing demand from oil & gas and safety & security applications due to rapidly falling prices of motion sensors. Also, the other application segment is witnessing huge technological advancement, which has, in turn, created demand for motion sensors.

The global market for thin-layer deposition technologies should grow from $32.1 billion in 2017 to $60.7 billion by 2022 at a compound annual growth rate (CAGR) of 13.6% for the period of 2017-2022.

Chemical vapor deposition technology market for thin-layer deposition should grow from $22.1 billion in 2017 to reach $31.4 billion by 2022 at a CAGR of 7.3% for the period of 2017-2022.

Ion implantation technology market for thin-layer deposition should grow from $9.9 billion in 2017 to reach $29.0 billion by 2022 at a CAGR of 24.0% for the period of 2017-2022.

Report Scope:

The scope of the study is limited to the three main technologies as named in the Thin-layer deposition market. Also, this report studies and discusses the materials of these technologies, in terms of applications and properties. BCC Research analyzes the major types of CVD, ion implantation and epitaxy systems used to manufacture products in four key industries. The report assesses and reviews trends in demand and their impact on each Thin-film technology and key market drivers within each industry.
Cable Assembly Market by Product (Custom/Application Specific Assemblies, Rectangular Assemblies, Radio Frequency (RF) Assemblies, Circular Assemblies), Application (Automotive, Telecom, Industrial, Medical), and Geography - Global Forecast to 2025

Published by Meticulous Market Research Pvt. Ltd.  
Price  
USD 4175 PDF by E-mail (Single User License) ~  
USD 7175 PDF by E-mail (Corporate User License)  
www.giiresearch.com/ce/871600

Cable Assemblies Market by Product (Custom/Application Specific Assemblies, Rectangular Assemblies, Radio Frequency (RF) Assemblies, Circular Assemblies), Application (Automotive, Telecom, Industrial, Medical), and Geography-Global Forecast to 2025

The global cable assemblies market is estimated at $149.7 billion in 2019 and is expected to reach $220.7 million by 2025, growing at a CAGR of 6.7%.

Succeeding an extensive secondary and primary research and an in-depth analysis of the market scenario, the report carries out an impact analysis of the key industry drivers, opportunities, trends, and challenges. Factors such as increasing number of electric vehicles, growing demand from aerospace industry, and growing internet penetration across the globe are driving the growth of this market. Moreover, high demand for fiber optics cable assemblies is expected to provide significant opportunities for various stakeholders in this market. However, availability of counterfeit products is expected to hinder the growth of this market to some extent.

On the basis of product type, custom/application specific assemblies segment accounted for the largest share of the global cable assemblies market in 2018. Better flexibility; accuracy, and accountability; multiple functions; and growing demand in wide range of applications and industries, including military, automotive, medical and high end industrial assemblies are the key factors primarily driving the growth of this segment.

Global Gas Detector Equipment Market 2019-2025

Published by Orion Market Research Pvt Ltd  
Price  
USD 3600 PDF (Single User License) ~  
USD 4800 PDF (Enterprise License)  
www.giiresearch.com/ce/888679

Global Gas Detector Equipment Market Size, Share & Trends Analysis Report by Type (Fixed Detectors and Portable Detectors), by Gas Types (Flammable Gas, Toxic Gas, and Others), by End-User (Commercial and Industrial) and Forecast, 2019-2025

The gas detector is equipment used for detecting different toxic and flammable gases in commercial as well as industrial sector. It is a safety device which has its wide applications in different areas such as oil and gas, hazardous waste management industry, semiconductor manufacturing, chemical industry, textile industry, and food & beverage industry. The gas detection equipment market is likely to grow due to increased demand in oil and gas industries and requirement of safety devices across various residential, commercial and industrial places. However, the failure of the gas detector at times have brought in the requirement of advanced technologies to detect hazardous gases. The gas detection equipment market is segmented on the basis of type, gas types, and end-user. Based on the type, the market is further classified into fixed and portable gas detecting devices. On the basis of end-user, the market is segmented into commercial and industrial.
China and Taiwan Semiconductor Packaging and Test Equipment Market Insights, Forecast to 2025

Published by QYResearch
Price
USD 4000 PDF by E-mail (Single User License) ~
USD 8000 PDF by E-mail (Enterprise Wide License)

The rapid expansion of semiconductor chip application is one of the primary factors contributing to the growth of the semiconductor packaging and test market in China. The use of semiconductor chips has expanded broadly with rising demands from various industries such as power, energy, medical, green cars, networking and telecommunications, LED lighting, automobile, consumer applications, military, aerospace and defense, motor control applications, and robotics. This report mainly studies semiconductor packaging and test equipment market.

The scope of statistics is only including following equipment:

1. Prober: Wafer Probe Station
2. Bonder: Die Bonder
3. Dicing Machine
4. Sorter
5. Handler: Test Handler

This report studies the Semiconductor Packaging and Test Equipment market size in China and Taiwan. This research report categorizes the China & Taiwan Semiconductor Packaging and Test Equipment market by top players/brands, countries, type and end user. This report also studies the China & Taiwan Semiconductor Packaging and Test Equipment market status, competition landscape, market share, growth rate, future trends, market drivers, opportunities and challenges, sales channels and distributors.

LED Light Engine - Global Market Outlook (2017-2026)

Published by Stratistics Market Research Consulting
Price
USD 4150 Unprintable PDF by E-mail (Single User License) ~
USD 7500 Printable PDF by E-mail (Global Site License)

According to Stratistics MRC, the Global LED Light Engine Market is accounted for $21.88 billion in 2017 and is expected to reach $84.53 billion by 2026 growing at a CAGR of 16.2% during the forecast period. The increasing consumer demand for energy-efficient lighting systems, reduction in prices of LEDs, and high penetration of LEDs as a light source in the general lighting market are expected to drive the growth of this market. However, development of alternative technologies and lack of awareness regarding installation costs and payback periods are hindering the growth of LED light engine market across the globe.

LED Light Engine originates from Zhaga consortium. According to Zhaga definition, LED light engine or LLE is the combination of one or more LED modules, together with an LED driver (also known as electronic control gear, or ECG). Some LLEs contain an integrated driver, while some LLEs consist of one or more LED modules together with a separate driver. Therefore, LED Light Engine is a device that between LED fixtures and LED Luminaire. In a more simple definition: make led module and constant current driver printed on one Alu PCB.
**Underfill Material - Global Market Outlook (2017-2026)**

According to Stratistics MRC, the Global Underfill Material Market is accounted for $240.56 million in 2017 and is expected to reach $535.56 million by 2026 growing at a CAGR of 9.3% during the forecast period. Rising demand in automotive and military industries is the major key factors driving the market growth. Moreover, flip chip packaging of low-k devices is providing opportunities for the market growth. However, reducing profit margins of underfill suppliers may restrain the market growth.

Underfill materials are fused formulations of inorganic fillers and organic polymers which can be used as a semiconductor packaging to attain better quality of thermo-mechanical presentation. Molded underfill (MUF), Capillary underfill (CUF) and no flow underfill (NUF) are some techniques which are used in underfill materials.

By Product, Capillary Underfill Material (CUF) held considerable growth during forecast period due recent developments in the electronic industry. It is used in several packaging techniques which include ball grid array, chip scale packaging, flip chip, and others. By geography, Asia Pacific commanded considerable market share attributed to high adoption of these underfill materials in various industries in China.

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**Cleanroom Lighting - Global Market Outlook (2017-2026)**

According to Stratistics MRC, the Global Cleanroom Lighting Market is accounted for $667.22 million in 2017 and is expected to reach $1156.30 million by 2026 growing at a CAGR of 6.3% during the forecast period. Growing strict regulatory factors in healthcare & food processing sectors is one of the major factors driving market growth. However, high cost coupled with clean rooms may restrain the market growth.

Clean room indicate the removal of harmful air, bacteria, pollutants in the air, etc. in a certain space, and the clean room lighting needs to be controlled within the range that meets the requirements, so that the light source needs to be specially designed.

Based on End User, Healthcare & life sciences segment is expected to grow at a significant rate during the forecast period. Need for controlled manufacturing environment necessitating control over the concentration of microorganisms, temperature, airborne particles, humidity, and pressure in the pharmaceutical industry boosts the number of clean rooms. By Geography, Asia Pacific region is anticipated to exhibit the considerable growth due to its favorable regulatory environment and cost advantage in this region.
Single Loop Controller - Global Market Outlook (2017-2026)

According to Stratistics MRC, the Global Single Loop Controller market is accounted for $93.98 million in 2017 and is expected to reach $120.50 million by 2026 growing at a CAGR of 2.8% during the forecast period. The introduction of hybrid high-temperature controllers as a substitute to a PLC device and growing savings toward power generation projects are some of the key factors driving the market growth. However, the stagnant expansion of oil & gas industry is hindering the growth.

Single loop controllers are easy to use devices used in temperature and other processes to control one specific variable. Single loop controllers are front-of-panel products. These controllers are available to ensure precise control for demanding applications as fundamental devices with core functions, to those with highly developed features. These controllers have a high visibility display for amplified clarity that enables important process information and alarm messages.

Digital Pump Controller - Global Market Outlook (2017-2026)

According to Stratistics MRC, the Global Digital Pump Controller market accounted for $ 8.19 billion in 2017 and is expected to reach $ 15.85 billion by 2026 growing at a CAGR of 7.6% during the forecast period. Some of the key factors such as the increasing usage of connected devices like smartphones, laptops etc. and the installation of water pumps across all over the globe are driving the market growth. However, lack of awareness, technical challenges and inknowledge of operating electronic equipment such as pump controllers via mobile, app, or other systems by the people in rural areas who are mostly uneducated are the restraining factors for the market growth. Moreover, the increasing government support for wastewater treatment will provide ample opportunities for the growth of the market.

A digital pump controller replaces the tradition techniques to overcome need for manual operation of pumps that are used to pump water from a water tank or any other water source. An electric sensor is used in the digital pump controller, which is able to offer more accurate data than traditional pump controllers which are incapable of providing accurate data. A visible control panel is fixed on the top of a digital pump controller, and properly manages overall performance of the device. They can also be operated using a mobile or remote.
**Automotive Switch - Global Market Outlook (2017-2026)**

Published by Stratistics Market Research Consulting  
Pub. Date 2019/06/19  
Price  
USD 4150 Unprintable PDF by E-mail (Single User License)  
USD 7500 Printable PDF by E-mail (Global Site License)

According to Stratistics MRC, the Global Automotive Switch market accounted for $ 572.56 million in 2017 and is expected to reach $ 1135.05 million by 2026 growing at a CAGR of 7.9% during the forecast period. Some of the key factors such as increasing demand of electric vehicles globally and growing demand for light passenger vehicles & heavy-duty vehicles are driving the market growth. However, entry of voice recognition and fluctuating prices of raw materials used in manufacturing switches are the restraining factors for the market growth. Moreover, high demand for electric vehicles and growing vehicle sales, production will provide ample opportunities for the growth of the market.

Automotive switch is like an electromechanical device that is used to operate an electrical circuit. Switches are also used in engine start and stop function and in different vehicle operations for a wide variety of applications such as infotainment system, HVAC system, and electronic component systems. It helps the driver to control the direction indicators, infotainment, windows, and headlights without getting distracted from driving. Nowadays, Illuminated switches are provided in the vehicles to indicate the actuation about a specific function, thus making it convenient for the user to locate and identify the switch position during low light. It is provided in a number of switches, including rocker switches, push button switches, toggle switches and rotary switches.

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**Ultrasonic Flow Meter - Global Market Outlook (2017-2026)**

Published by Stratistics Market Research Consulting  
Pub. Date 2019/06/19  
Price  
USD 4150 Unprintable PDF by E-mail (Single User License)  
USD 7500 Printable PDF by E-mail (Global Site License)

According to Stratistics MRC, the Global Ultrasonic Flow Meter Market is accounted for $1.17 billion in 2017 and is expected to reach $2.57 billion by 2026 growing at a CAGR of 9.1% during the forecast period. Some of the key factors influencing the market growth include need for accurate measurement, growing demand in oil & gas and water & wastewater industries and growing demand from the custody transfer applications. However, high initial cost of ultrasonic flow meters is restricting the market growth.

The ultrasonic flow meter is used to measure the fluid velocity which will calculate the motion of the gas or any liquid flowing. The flow meter measures the average velocity with the help of ultrasonic transducers. These ultrasonic flow meters are affected by the temperature, density, viscosity of the fluid.

Amongst implementation type, the spool piece ultrasonic flowmeter segment accounted for the major shares of this market. These flow meters are made of carbon steel, alloy steel, and stainless steel and incorporate highly-efficient transmitters that provide intelligent diagnostics. Additionally, to monitor the flow of high viscosity liquids, these devices are also geared with special transducer designs and sophisticated software.

Published by BIS Research Inc.  
Pub. Date 2019/06/19

Price
USD 5000 Unprintable PDF by E-mail (Single User License) ～
USD 8000 Printable PDF and Excel by E-mail (Enterprise-wide License)

www.giiresearch.com/ce/872611


Key Questions Answered in the Report:

• What was the total revenue generated by the global vision and navigation system market for autonomous vehicle in 2018 and how is it expected to grow during 2019-2024?
• What are the major driving forces, trends, challenges and growth opportunities that can tend to influence the global vision and navigation system market during the forecast period, 2019-2024?
• Which component (Camera, LiDAR, Radar, Ultrasonic Sensor, GPS, or IMU) of the global vision and navigation system market for autonomous vehicle is expected to dominate during the forecast period?
• What is the importance of software in the current scenario, and how is it going to play an important role in the forecasted period (2019-2024)?
• Which vehicle type (passenger or commercial) of the global vision and navigation system market for autonomous vehicle is expected to dominate during the forecast period?
• Which region from North America, Europe, Asia-Pacific, and Rest-of-the-World (ROW) is expected to lead the global vision and navigation system market for autonomous vehicles by 2024?
• Which are the key component manufacturers and software providers operating in the global vision and navigation system market for autonomous vehicle?
Global 5G Chipset Market
Published by BCC Research
Price
USD 5500 PDF by E-mail (Single User License) ~
USD 9504 PDF by E-mail (Enterprise License)

The global 5G chipset market should grow from $870.0 million in 2019 to reach $10.9 billion by 2024 at a compound annual growth rate (CAGR) of 65.7% for the period of 2019-2024.

Smartphones as a segment of 5G chipset market should grow from $468.4 million in 2019 to reach $5.7 billion by 2024 at a CAGR of 64.8% for the period of 2019-2024.

Smart gadgets as a segment of 5G chipset market should grow from $124.0 million in 2019 to reach $1.6 billion by 2024 at a CAGR of 67.1% for the period of 2019-2024.

Report Scope:
The 5G chipset market is segmented into the following categories -

- Deployment type: network infrastructure, smart gadgets, smartphones, routers/modems, and others.
- Wafer material type: GaN (gallium nitride)-based chipsets, GaAs (gallium arsenide)-based chipsets, InP (indium phosphide)-based chipsets, SiN (silicon nitride)-based chipsets, Si-based chipsets, and others.
- IC type: RFIC, ASIC, cellular IC, and mmWave IC.

Global Non-Renewable Inverter Market, Forecast to 2025
Published by Frost & Sullivan
Price
USD 4950 Web Access (Regional License)

A non-renewable inverter is an electronic device which converts low-voltage direct current (DC) to high-voltage alternate current (AC), making it usable by daily appliances powered by a non-renewable power source. Increasing demand for power in all end-user segments, combined with the unreliable and ageing grid infrastructure, creates a demand for emergency backup power systems. Rising incidences of power outages caused due to natural disasters has also led governments around the world to mandate the presence of inverters as part of emergency kits. Sustained growth of the telecommunications sector as well as increasing incorporation of electronic appliances in automobiles has boosted the growth of the global non-renewable inverter market.

Asia-Pacific (APAC) holds the largest share of the global non-renewable inverter market, and is closely followed by North America. Growing need for efficient and reliable power supply fueled by rapid expansion of the telecommunications, data processing and industrial end users perpetuates the demand for non-renewable inverters in the region. Increasing frequency of natural disasters such as hurricanes and storms in North America has created awareness among end users regarding the importance of backup power systems, consequently fueling growth of the non-renewable inverter market.
**Global EEG Electrodes Market 2019-2023**

Published by TechNavio (Infiniti Research Ltd.)

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EEG electrode is a medical device that is used for recording the electrical activity of the brain. Technavio's EEG electrodes market analysis considers sales from the adoption of disposable EEG electrodes and reusable EEG electrodes. Our analysis also considers the sales of EEG electrodes in Asia, Europe, North America, and ROW. In 2018, the disposable EEG electrodes segment had a significant market share, and this trend is expected to continue over the forecast period. The benefits of using disposable EEG electrodes including improved safety profile and reduced prices will play a significant role in the disposable EEG electrodes segment to maintain its market position. Also, our global EEG electrodes market report looks at factors such as the increasing prevalence of neurological disorders, rising demand for EEG procedures, and increasing initiatives and support from governments and healthcare organizations. However, high cost of EEG devices and procedures, shortage of skilled professionals, and intense competition among vendors leading to pricing pressures may hamper the growth of the EEG electrodes industry over the forecast period.

**Global Smoke Detector Market 2019-2025**

Published by Orion Market Research Pvt Ltd

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Global Smoke Detector Market Size, Share & Trends Analysis Report by Type (Photoelectric, Ionization, and Dual Sensor Smoke Detector), by Power Source (Hardwired With Battery Backup, Hardwired Without Battery Backup, and Battery Powered), and by End-User (Residential, Commercial and Industrial) and Forecast, 2019-2025

Smoke detectors are devices that detect smoke particles as primary products in combination with other critical components such as carbon monoxide, carbon dioxide, steam, heat, burning hydrocarbons, and various oxygenated organics. A smoke detector's performance can be evaluated on the basis of various factors including the sensitivity of the detector to fire effluents, nuisance dismissal, energy consumption, installation cost, and response time. As smoke alarms detect smoke or fire in a residential and commercial area, people can take precautionary actions to avoid accidents and leave the building. The factors that are driving the market include smart home adoption, and support and initiative from government bodies across the globe. The governments of various developed countries are taking the initiative to increase awareness about the smoke detector.
Water Quality Testing Equipment Market to 2027 - Global Analysis and Forecasts by Product Type; Type; and End-User

The global water quality testing equipment market accounted for US$ 3.41 Bn in 2018 and is expected to grow at a CAGR of 5.93% over the forecast period 2019-2027, to account for US$ 5.67 Bn by 2027. Growth in recent years in the water quality testing equipment market is primarily driven by the increasing need for monitoring the water contamination levels in the water bodies and ensuring safe water access for consumptions. North America region is observed to garner the highest market share in the water quality testing equipment market.

Steady growth in the implementations of water quality testing equipment is being observed globally in various industrial premises, Government bodies, and other commercial bodies where water plays a key operational role. Over the years, rapid urbanization and industrialization have caused paradigm shifts in the water ecosystem as well as imbalances in the water supply and demands from end-users. Water contamination has been a major by-product of the rapid and unplanned industrialization as well as urbanization in the developed as well as developing economies.

Conductive Inks Market by Type (Silver, Copper, Carbon/Graphene, Carbon Nanotube, Conductive Polymer), Application (Photovoltaics, RFID, PCB, Membrane Switches, Displays, Bio-Sensors, Thermal Heating), Region - Global Forecast to 2024

The conductive inks market size is projected to grow from USD 3.3 billion in 2019 to USD 4.0 billion by 2024, at a CAGR of 4.0% between 2019 and 2024. Increasing demand from emerging economies and the growing consumption of conductive inks from the electronic industry are creating growth opportunities for the market players. However, the increasing requirement for high-end technologies acts as a restraint to the growth of the market.

"Conductive polymer inks segment is estimated to account for the fastest-growing market share during the forecast period."

The conductive polymer inks segment is projected to be the fastest-growing type, in terms of value, during the forecast period. The electrical properties of the polymers can be customized according to the application through organic synthesis. These materials successfully combine the electrical properties of metals, such as low cost, resistance to corrosion, and lightweight, with the advantages of polymers. The unique properties of conductive polymers help in providing better alternatives for cost-sensitive materials.

The Vehicle-mounted Camera market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Vehicle-mounted Camera.

This study focuses on the production side and consumption side of Vehicle-mounted Camera, presents the global Vehicle-mounted Camera market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Vehicle-mounted Camera capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Vehicle-mounted Camera by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.


An optical cable, also known as a fiber optic cable, is an assembly similar to an electrical cable, but containing one or more optical fibers that are used to carry light. The optical fiber elements are typically individually coated with plastic layers and contained in a protective tube suitable for the environment where the cable will be deployed. Different types of cable[1] are used for different applications, for example long distance telecommunication, or providing a high-speed data connection between different parts of a building.

The Underground Optical Cables market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Underground Optical Cables.

This study focuses on the production side and consumption side of Underground Optical Cables, presents the global Underground Optical Cables market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Underground Optical Cables capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.
The Ultrasonic Range Finder market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Ultrasonic Range Finder.

This study focuses on the production side and consumption side of Ultrasonic Range Finder, presents the global Ultrasonic Range Finder market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Ultrasonic Range Finder capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Ultrasonic Range Finder by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.

The Industrial Lenses market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Industrial Lenses.

This study focuses on the production side and consumption side of Industrial Lenses, presents the global Industrial Lenses market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Industrial Lenses capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Industrial Lenses by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.
Varactor Diode Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast, 2019 - 2027

Transparency Market Research published a new report on the global varactor diode market. The varactor diode market report provides a comprehensive analysis of the growth of the varactor diode market, along with the crucial factors influencing the growth of this market over the projected period of 2019 and 2027. The report gives key insights into the growth of the varactor diode market, which will assist market participants in making smarter decisions based on systematic analysis.

With key focus on the drivers, trends, opportunities, and threats (DROTs), researchers have mostly covered key pointers affecting the growth of the global varactor diode market. Moreover, to provide a clear perspective on varactor diodes, data accumulation and analysis has been carried out across the globe. Information from specific regions is presented in detail with respect to value (US$ million) and volume ('000 units).

Thorough research on the service providers and suppliers has contributed to framing a clear outline on the supply side of the varactor diode market. Additionally, macroeconomic and microeconomic analysis is also presented, thus making the varactor diode market report more authentic and reliable. This holistic approach toward understanding the growth of the varactor diode will allow readers to be clear about the developments and strategic implications taking place in this market.

Global Sensors Market for Smartphones 2019-2023

Smartphones sensors are integrated circuits (ICs) that are integrated into devices to detect and measure their physical movements. Technavio's smartphones sensors market analysis considers sales from sensors of different price ranges, including premium range, medium range, and low range. Our analysis also considers the sales of smartphones sensors in the Americas, APAC, and EMEA. In 2018, the premium price range segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as increasing adoption of HMI technologies will play a significant role in the premium range segment to maintain its market position. Also, our global smartphones sensors market report looks at factors such as the increasing implementation of mobile AR application by enterprises, use of CMOS sensors in camera modules, and the integration of sensors in premium range smartphones. However, design complexity, growing adoption of bezel-less screens, and cyclical nature of the semiconductor industry may hamper the growth of the smartphones sensors industry over the forecast period.
Global Stadium Lighting Market 2019-2023

Stadium lighting is the integration of artificial lighting systems in the indoor and outdoor stadium. Technavio’s stadium lighting market analysis considers the sales based on lighting sources, including high-intensity discharge (HID), and light-emitting diode (LED). Our analysis also finds the sales of the stadium lighting in North America, Europe, APAC, MEA, and South America. In 2018, the HID segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as the high energy output of HID lights will play a vital role in the HID segment to maintain its market position. Also, our global stadium lighting market report looks at factors such as the increase in stadium construction globally, growth in sporting events, and demand for sustainable stadium lighting. However, the rise in environmental concerns related to stadium lights, long product replacement cycle, and interoperability issues associated with smart stadium lighting solutions may hamper the growth of the stadium lighting industry over the forecast period.


The VCI Emitters market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for VCI Emitters.

This study focuses on the production side and consumption side of VCI Emitters, presents the global VCI Emitters market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the VCI Emitters capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of VCI Emitters by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.

A Image Capture Card is an electronic device that captures individual, digital still frames from an analog video signal or a digital video stream.

The Image Capture Cards market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Image Capture Cards.

This study focuses on the production side and consumption side of Image Capture Cards, presents the global Image Capture Cards market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the Image Capture Cards capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of Image Capture Cards by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.

LED Curtain Lights Market by Distribution Channel and Geography - Global Forecast and Analysis 2019-2023

LED curtain lights refer to a set of LED lights, which are used for decorative lighting. Technavio's LED curtain lights market analysis considers sales of products through online and offline distribution channels. Our analysis also considers the sales of LED curtain lights in APAC, Europe, North America, South America, and MEA. In 2018, the offline distribution channel segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as the availability of trained personnel that can provide accurate information on various lighting products in the offer will play a significant role in the offline distribution channel segment to maintain its market position. Our global LED curtain lights market report looks at factors such as the development of smart controls in light management systems, increase in adoption of energy-efficient light sources, and growth in construction activities. However, the threat from counterfeit products, the value gap in decorative lightings, and a slowdown in industrial sector growth may hamper the growth of the LED curtain lights industry over the forecast period.
Water Quality Sensor Market by Application and Geography - Global Forecast and Analysis 2019-2023

Published by TechNavio (Infiniti Research Ltd.)
Pub. Date 2019/06/11
Price
USD 2500 PDF by E-mail (Single User License) ~
USD 5000 PDF by E-mail (Global License)

Water quality sensors are used for monitoring the quality of water in rivers, lakes, and seas. Technavio’s water quality sensor market analysis considers sales of these sensors for various applications including groundwater, drinking water, wastewater, aquaculture, coastal, laboratory, and other applications. Our analysis also considers the sales of water quality sensor in APAC, Europe, North America, South America, and MEA. In 2018, the groundwater segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as the use of improved technologies in the manufacturing of water quality sensors will play a significant role in the groundwater segment to maintain its market position. Our global water quality sensor market report looks at factors such as the increasing pollution, rising need to monitor water quality in the industrial sector, and the increase in government regulations. However, technical limitations and design complexities, a threat to cybersecurity, and dependence on government funds adversely affecting the adoption rate may hamper the growth of the water quality sensor industry over the forecast period.

Global Semiconductor Market 2019-2023

Published by TechNavio (Infiniti Research Ltd.)
Pub. Date 2019/06/10
Price
USD 2500 PDF by E-mail (Single User License) ~
USD 5000 PDF by E-mail (Global License)

Semiconductor materials are partial electricity conductors, and their conductivity lies between insulators and conductors. Technavio’s semiconductor market analysis considers the sales of ICs, optoelectronics, discrete semiconductors, and sensors. Our analysis also considers the growth of the semiconductor market in APAC, the Americas, and EMEA. In 2018, the ICs segment had a significant market share, and this trend is expected to continue over the forecast period. Factors such as the increasing demand for memory technologies from data center market will play a significant role in the ICs segment to maintain its market position. Also, our global semiconductor market looks at factors such as increased investments in fabs, rising adoption of semiconductor ICs in automobiles, and growing investments in telecommunication infrastructure. However, the impact of the ongoing trade war in the semiconductor industry, cyclical nature of the semiconductor industry, and increasing design complexity of semiconductor components may hamper the growth of the semiconductor industry over the forecast period.

Published by IMARC Services Private Limited

Price
USD 2499 PDF by E-mail (Single User License) ~
USD 3499 PDF by E-mail (Global Site License)

East Africa LED market reached a value of US$ 482.4 Million in 2018. The market is currently being driven by several factors such as strong government support, declining prices of LED products, infrastructure growth, rising consumer awareness, etc. IMARC Group’s latest report provides a detailed insight into the East Africa LED Lighting market covering a comprehensive analysis on Kenya, Tanzania, Uganda, Ethiopia and other East African markets. The report finds that Kenya is currently the largest market for LED products in the region. A key reason behind this is that Kenya has the highest electricity access rate in East Africa with total access being an estimated 75% from both grid and off-grid solutions. The report has also analysed the market in terms of application and has found that out of commercial, industrial, residential and other application sectors, the commercial sector accounts for the largest share. Based on the product type, the report found that street lights accounted for the largest market share. Other major products types were LED bulbs and LED panels. The report has also analysed the key distribution channels for LED products in East Africa and has found that LED products are mainly distributed through retail stores in the region. Looking forward, IMARC Group expects the market to reach a value of US$ 968.1 Million by 2024, exhibiting at a CAGR of around 12% during 2019-2024.

**Global Lighting Contactor Market Size study, by Type (electrically held, mechanically held), Application (indoor and outdoor), End-users (Commercial, municipal, industrial and smart residential complexes) and Regional Forecasts 2018-2025.**

Published by Bizwit Research & Consulting LLP

Price
USD 3950 Unprintable PDF by E-mail (Single User License) ~
USD 5550 Printable PDF by E-mail (Enterprise License)

Global lighting contractor market is valued at approximately USD 690 million in 2017 is anticipated to grow with a growth rate of more than 9 % over the forecast period 2018-2025.

Rising demand for smart control system in lighting, increasing implementation of energy-efficient light and growing adoption of IoT in the light industry are key factor driving the market growth. Additionally, development of smart city along with government initiative and incentives towards energy saving schemes is also contributing towards global lighting contractors market growth opportunity over the forecast period.

As government authorities of different countries are promoting smart lighting projects that in turn is fueling the market growth of lightning contactors. For instance, in 2017, the Chicago department of transport announced about $160 million smart street lighting projects with the utilization of LED bulbs, IoT connected devices. Moreover, Los Angles is also one of the early adopters of smart lighting technologies having currently about 80% of street lights with the use of LED along with 4G LTE wireless technology and also reported saving of 63 % on energy cost. Growing awareness about the energy conservation and energy efficiency government of different nations are introducing programs and incentives towards adoption of smart street and lightning systems.

Published by Visiongain Ltd  
Pub. Date 2019/06/10

Price  
GBP 2699 Unprintable PDF (Single User) - 1 Year License  
GBP 6999 PDF (Global Site License - Includes Free Datasets)

www.giiresearch.com/ce/290782

In the 21st century, the digital battlefield has become a force multiplier which has transformed how militaries around the world prepare for and overcome challenges from state and non-state competitors. Land vehicles have not escaped the profound effects of digitalisation, having become valuable, interconnected nodes in the field with all new tactical and logistical capabilities. Indeed, over the last 15 years, there has been an increase in the number of advanced electronic systems at ground level as defence departments seek to make their armed forces lighter, faster and more deployable.

Visiongain anticipates that global investment and consolidation will be strong over the long term in the vetronics industry. Digitalisation will continue to drive the market forward and large-scale, military modernisation programmes will begin to come to fruition. These are just some of the trends that your company could potentially exploit.


Published by Consulting Services & Associates (CS &A LLC)  
Pub. Date 2019/06/10

Price  
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CS &A created and makes use of a complete TOP DOWN / BOTTOMS UP method of data gathering, and analysis. CS &A looks at ALL contributing Revenue Segments within the Industry defined as:

1. Crystal's and Oscillators
2. Semiconductor Clock & Timing
3. Die Sales into FCP
4. RF Semiconductor Timing

Multiple mature markets are covered to include:

- CONSUMER
- computing
- COMMUNICATIONS
**Electronic Skin Patches 2019-2029**

Published by IDTechEx Ltd.  
**Price**  
USD 5495 PDF Download (1-5 Users)  
USD 8495 PDF Download (6-10 Users) and 1 Hardcopy  
www.giiresearch.com/ce/658696

This report characterizes the markets, technologies and players in electronic skin patches. With coverage across 26 application areas and over 100 companies, plus historic market data from 2010 - 2018 and market forecasts from 2019 to 2029, it is the most comprehensive study compiled for this emerging product area. It reveals significant opportunity, with over $7.5bn in revenue made from electronic skin patches in 2018, and a forecast for this to grow to over $20bn per year by 2029.

Skin patches are wearable products attached to the skin. The electronic element involves the integration of electronic functionality such as sensors, actuators, processors and communication, allowing the devices to become connected and "smart". In many ways, skin patches act as the ultimate wearable electronic devices, augmenting the wearer with minimal encumbrance and maximum comfort. As such, interest in electronic skin patches soared as a by-product of the significant hype and market growth around "wearables" starting in 2014.

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**Ultrasonic Flow Meter Market by Implementation Type (Clamp-On and Inline), Measurement Technology, Number of Paths (1 Path Transit-Time, 2 Path Transit-Time, and 3 and Above Path Transit-Time), End-User, Region - Global Forecast to 2024**

Published by MarketsandMarkets  
**Price**  
USD 5650 PDF by E-mail (Single User License) 
USD 10000 PDF by E-mail (Global License)  
www.giiresearch.com/ce/863500

The ultrasonic flow meter market is projected to reach USD 2.1 Billion by 2024 from an estimated USD 1.4 billion in 2018, at a CAGR of 6.5%. This growth can be attributed to factors such as increasing green field investments in China, rise in shale gas exploration activities in the US, and increasing import of crude oil in India. High initial cost and inaccurate flow measurements in the vertically downward flow line are some restraints of ultrasonic flow meter.

"The clamp-on segment, by implementation type, is expected to be the fastest growing market from 2019 to 2024."

The clamp-on segment, by implementation, is estimated to be the fastest growing segment during the forecast period. Clamp-on ultrasonic flow meter measures the flow without any interruption in the process and are suitable for pipes made of plastic, steel, and cast iron suitable for measuring aggressive fluids even under high pressure. Major end-users for clamp-on ultrasonic flow meters are oil & gas, water & wastewater, power generation, chemical, food & beverage, pharmaceutical, and paper & pulp industries. This segment is expected to have a CAGR of 6.3% during the forecast period. It can even measure the flow rate under challenging environmental areas like toxic and hazardous conditions inside the pipe, which is expected to drive its demand in the ultrasonic flow meter market.
The global market for sensors should grow from $173.4 billion in 2019 to reach $323.3 billion by 2024 at a compound annual growth rate (CAGR) of 13.3% for the period of 2019-2024.

IoT sensors, biosensors and image sensors as a segment of sensors market should grow from $52.1 billion in 2019 to reach $110.9 billion by 2024 at a CAGR of 16.3% for the period of 2019-2024.

Chemical sensors, fingerprint sensors and radar sensors as a segment of sensors market should grow from $42.3 billion in 2019 to reach $85.4 billion by 2024 at a CAGR of 15.1% for the period of 2019-2024.

Report Scope:

The scope of the report includes a detailed study of global and regional markets for various types of sensors and their applications, including explanations of variations in industry growth by region. This report covers only conventional sensors, such as pressure, temperature, level, flow and position sensors, and excludes unconventional sensors, such as pointing sensors used in touch screens and touch-pads, barcode readers and radio frequency identification (RFID) readers, remote readout and intelligent power meters, gas and water meters, and remote readout heat meters. Estimated values are based on manufacturers’ total revenues. Projected and forecasted revenue values are in constant U.S. dollars unadjusted for inflation.
Flexible printed circuit (FPC) products make their way into consumer electronics like smartphone and tablet PC, in the form of modules for display, touch control, fingerprint recognition, etc. The volatility of consumer electronics market in recent years leads to a low growth in FPC market. In 2018, global FPC market was worth USD11.4 billion, an annualized increase of 3.1%. As there is a growing demand for FPCs from intelligent cars and the thriving devices like smart wearables and drones, the FPC market size will expectedly hit USD16.642 billion in 2025, with a CAGR of 5.5% between 2018 and 2025.

FPC finds broad application in consumer goods from smartphones to tablet PCs. In 2018, smartphone, tablet PC and ordinary computers accounted for around 39.8%, 15.8% and 9.1% of FPC market, separately, while communications and automotive electronics took a combined 14.6% or so. New energy vehicles will be a new hotspot on FPC industry chain, and the demand from emerging markets like automotive electronics will be conducive to the growth of the FPC industry. It is predicted that automobile will command 17.8% of FPC market in 2025.

Global FPC industry features production transfer from the rich world with rising costs to countries or regions where production technology is mature enough and cost remains low, especially to Mainland China. FPC giants rush to invest and build factories in China. That’s why China still leads the world in FPC output value in spite of small scale of its FPC vendors.
Global Underwater Power Connector Market Report, History and Forecast 2014-2025, Breakdown Data by Manufacturers, Key Regions, Types and Application

Market Segment by company, this report covers:

- SEACON
- Teledyne Marine
- Glenair
- MacArtney
- Marshall Underwater Industries
- Sea and Land Technologies
- Eaton
- Hydro Group
- Amphenol
- BIRNS
- Gisma
- CRE

Market Segment by region, covering:

- North America
- Asia-Pacific
- Middle East and Africa
- Europe
- South America

Market segment by type, covers:

- Dry Mate Connector
- Wet Mate Connector
- Others

Asia (SEA, JP, KR) Fiber Optic Cable Market Insights, Forecast to 2025

This report studies the Fiber Optic Cable market size in Asia (SEA, JP, KR), split the market size into major countries, Southeast Asia, Japan and Korea.

This research report categorizes the Asia (SEA, JP, KR) Fiber Optic Cable market by top players/brands, countries, type and end user. This report also studies the Asia (SEA, JP, KR) Fiber Optic Cable market status, competition landscape, market share, growth rate, future trends, market drivers, opportunities and challenges, sales channels and distributors.

The Asia (SEA, JP, KR) Fiber Optic Cable market is valued at 747.47 Million USD in 2018 and is expected to reach 1498.92 Million USD by the end of 2025, growing at a Growth Rate of 10.45% between 2018 and 2025.

The semiconductor industry with high technical threshold is advancing speedily. Every generation of products requires unique processes and equipment. With progresses in semiconductor manufacturing processes as well as the expedited iterations of semiconductor manufacturing equipment, the global sales of new semiconductor manufacturing equipment in 2018 will grow by 9.7% to $61.6 billion, a figure projected to hit $98.2 billion by 2025, a CAGR of 6.9% between 2018 and 2025.

The semiconductor process involves monocrystalline silicon wafer fabrication, IC design, IC manufacturing, IC packaging and testing. The production of monocrystalline silicon wafers needs monocrystalline furnace; and six types of equipment are indispensable to IC manufacturing, including lithography machine, etching machine, thin film equipment, diffusion/ion implantation equipment, wet process equipment, and process detector. Among semiconductor equipment, wafer foundry equipment account for about 80% of procurement, testing equipment 8%, packaging equipment 7%, and silicon wafer plant equipment and others 5%.

LED Light Engine Market by Product Type (Lamps and Luminaires), Installation Type (New Installation and Retrofit Installation), End-Use Application (Indoor Lighting and Outdoor Lighting), and Geography - Forecast to 2024

The LED light engine market is expected to be valued at USD 30.0 billion in 2019 and is anticipated to reach USD 59.5 billion by 2024 growing at a CAGR of 14.7% from 2019 to 2024. Rising demand for energy-saving lighting systems; development and modernization of infrastructure, for example, smart cities; availability of low price LEDs; entrance of LEDs as light sources in general lighting; and accelerating growth of LED technology over conventional lighting technology are key factors influencing the market growth of LED light engines.

"Luminaires to record highest CAGR in LED light engine market during forecast period"

The LED light engine market for luminaires is expected to grow at the highest CAGR as luminaires hold the major market share in the LED lighting system. Increasing consumer awareness about conserving energy and installing lighting systems with high energy efficiency is expected to boost the LED lighting market for luminaires, which in turn is expected to drive the market for LED light engines during the forecast period.

A recent study published by Transparency Market Research (TMR) on the sensing cable market offers a comprehensive analysis on the growth prospects and dynamics of the market between 2019 and 2027. The study includes detailed information about the macro- and micro-economic factors that are impacting the demand for sensing cables, and provides a detailed projection on the future trends in the market.

The report offers detailed and actionable insights to help market players understand the dynamics of the sensing cable market. The information featured in TMR's report can help sensing cable market players, such as manufacturers, marketers, suppliers, distributors, and retailers, in making important business-related decisions. New startups entering the global sensing cable market can also leverage the information encapsulated in the study and adopt appropriate business strategies to gain a competitive edge in the market. Industry experts, managers, stakeholders, journalists, investors, researchers, and business analysts too can make use of the critical information offered in this report.

Transformation of the Lighting Market in Asia-Pacific, 2019

From traditional incandescent lamps to compact fluorescent lamps (CFL) to light-emitting diodes (LED) and laser diodes (LD), the lighting market has come a long way in the last 10 years. With growing LED adoption and increasing smart solutions, leveraging Internet of Things (IoT) and Light Fidelity (LiFi), the lighting market is going through a phase of enormous transformation. This transformation is not restricted to technological advancements. There is a paradigm shift that has been observed in the entire lighting market dynamics, directly impacting product offerings, competitive landscape, distribution channels, and business models. From quitting the traditional lighting business to pulling out from certain geographies, stakeholders in the lighting market are fighting hard to combat the pace at which the market has been transforming. Frost & Sullivan’s latest study discusses how the lighting market has been evolving, and enlists what lighting manufacturers can do to surge ahead in this rapidly changing and competitive market.
**GaN on Silicon Technology Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast, 2019 - 2027**

Published by Transparency Market Research

Price
USD 5795 PDF by E-mail (Single User License) ~
USD 11795 PDF by E-mail (Corporate License)

[www.giiresearch.com/ce/881255](http://www.giiresearch.com/ce/881255)

A new study by Transparency Market Research (TMR) on the GaN on silicon technology market aims to outline the impact of the past and current developments on the future of the GaN on silicon technology market. GaN on silicon technology, also known as Gan-on-Si, has gained momentum in the last couple of years, owing to its proven performance advantages over the laterally diffused metal oxide semiconductor (LDMOS) technology. The adoption of GaN on silicon technology has witnessed significant diversification in the recent past, with applications in RF systems creating new avenues of growth. Developments in the GaN on silicon technology market have led to tectonic shifts in how this technology is used across a range of applications.

The study on the GaN on silicon technology market offers incisive analysis on the key influencing factors that are likely to disrupt this marketplace. A comprehensive analysis on the competitive landscape, along with product and business strategies of the incumbents and new entrants has also been included in the GaN on silicon technology market report.

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Published by Global Market Insights Inc.

Price
USD 5150 Unprintable PDF (Single User License) ~
USD 9150 Printable PDF (Enterprise User License)

[www.giiresearch.com/ce/882347](http://www.giiresearch.com/ce/882347)

GaN and SiC Power Semiconductor Market will reach over USD 3 billion by 2025. The material limits of silicon-based power devices have propelled the industry to develop some of more capable and durable power devices, further providing opportunities for the GaN and SiC power semiconductor market growth. While several power supplies are increasingly adopting these devices, the popular areas witnessing growth of the GaN and SiC power semiconductor market are automotive electronic, electric vehicles, and rail traction. Their implementation is expected to increase in several solar energy applications due to high energy efficiency and very low power loss features offered by these components.

The GaN and SiC power semiconductor market is rapidly growing particularly in high power and high-temperature applications such as automotive, aircraft, and deep extraction of oil or gas. The oil & gas extraction applications need power devices to run continuously at high temperatures requiring high reliability. Field effect transistors, bipolar junction transistors, and other active switching devices implemented with these materials are the other major application areas in the GaN and SiC power semiconductor market. Wide bandgap semiconductor provides very high capabilities for critical electric fields. These field strengths are enabling semiconductor manufacturers to design devices with minimum losses by using SiC and GaN materials.
In 2018, the revenue of global integrated circuit industry totaled about USD 480 billion, representing a CAGR of less than 10% from 2014 to 2018; the revenue of China's integrated circuit industry was about USD 98.70 billion, representing a CAGR of about 25% from 2014 to 2018. In China, the revenue from integrated circuit design was about USD 38.07 billion, accounting for 38.60% of the revenue of the integrated circuit industry; the revenue from integrated circuit manufacturing was about USD 27.48 billion, accounting for about 27.80%; the revenue from integrated circuit packaging and testing was about USD 33.15 billion, accounting for 33.60%.

According to CRI, since China joined the WTO, its integrated circuit industry has been developing. However, because of outdated technologies and insufficient talents, China's integrated circuit manufacturing lags behind the international advanced level for one to two generations; integrated circuit designing contains low technological content and is monotonous; integrated circuit packaging and testing have a gap with the international mainstream level. Therefore, China relies heavily on the imports of high-end integrated circuits.

The biosensors market is estimated to grow from USD 21.2 billion in 2019 to USD 31.5 billion by 2024, at a CAGR of 8.3%. The biosensors market for PoC diagnostics applications is growing at a significant rate due to increasing incidences and prevalence of lifestyle diseases, such as diabetes. However, slow rate of commercialization act as a major restraint for the growth of the market.

"Sensor patch segment to witness highest CAGR during forecast period"

The market for sensor patches is estimated to grow at a higher CAGR during the forecast period. Sensor patches offer unique opportunities for condition/activity monitoring, feedback and actuation/delivery services, such as drug delivery or stimulation, localization, identification, personal contextual notifications, information display, and virtual assistance. In simpler terms, these devices can monitor, document, and augment lives, and they can be used to assist people in specialized professional and personal activities.
Global Connected (Smart) Street Light Market 2019-2023

Published by TechNavio (Infiniti Research Ltd.)

Price
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USD 5000 PDF by E-mail (Global License)

www.giiresearch.com/ce/865044

Smart street lights are fitted with vehicle motions sensors to help them automatically switch on and off triggered by vehicle movements. These lights are also capable of adjusting their intensity based on weather conditions and movements of pedestrians, bicycles, and animals. This facilitates a significant reduction in the overall operational costs associated with smart street lights. Many other operational benefits offered by smart street lightings such as traffic management, crime reduction, and pollution monitoring have increased their adoption across the world. This is expected to drive the growth of the global smart street lighting market size at a CAGR of over 28% during the forecast period.

Market Overview

Increasing number of highway expansion plans

Poor visibility at night time has caused multiple pedestrian accidents on highways. This can be addressed by installing smart street lights on roads. Sensors in the smart street lights gather information about the number of vehicles on the road and weather conditions and convey the same to a cloud-based platform. The automated system connected to the cloud platform will adjust the brightness accordingly. Thereby the sanction of highway expansion plans across the world will drive the demand for smart street lights.

Global Near Field Communication (NFC) Chips Market Forecast 2019-2027

Published by Inkwood Research

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USD 4500 PDF (Enterprisewide License)

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Driven by the growing number of NFC enabled smartphones, rising demand of NFC chips in consumer electronics and widespread adoption of contactless payments across numerous industries, the global near field communication chips (NFC) market is expected to grow with a 22.01% CAGR over the forecast period of 2019-2027.

Global near field communication chip market refers to the market of electronic chips that uses magnetic field induction for transfer of data and to establish a wireless connection.

MARKET INSIGHTS

The global near field communication chips (NFC) market is segmented based on the product, end-users and applications. The penetration of smartphones across the globe has increased significantly, and thus signifies a huge platform for the adoption of NFC chips across smartphones. Also, technological advancements and research and development in near field communication chips enable smartphones to function optimally, which has provided an incentive to the growing uptake of NFC chips in smartphones.

The rising data security and privacy concerns, complexity related to the product designing, and the lack of interoperability create the major hurdles for the NFC market to proliferate further.