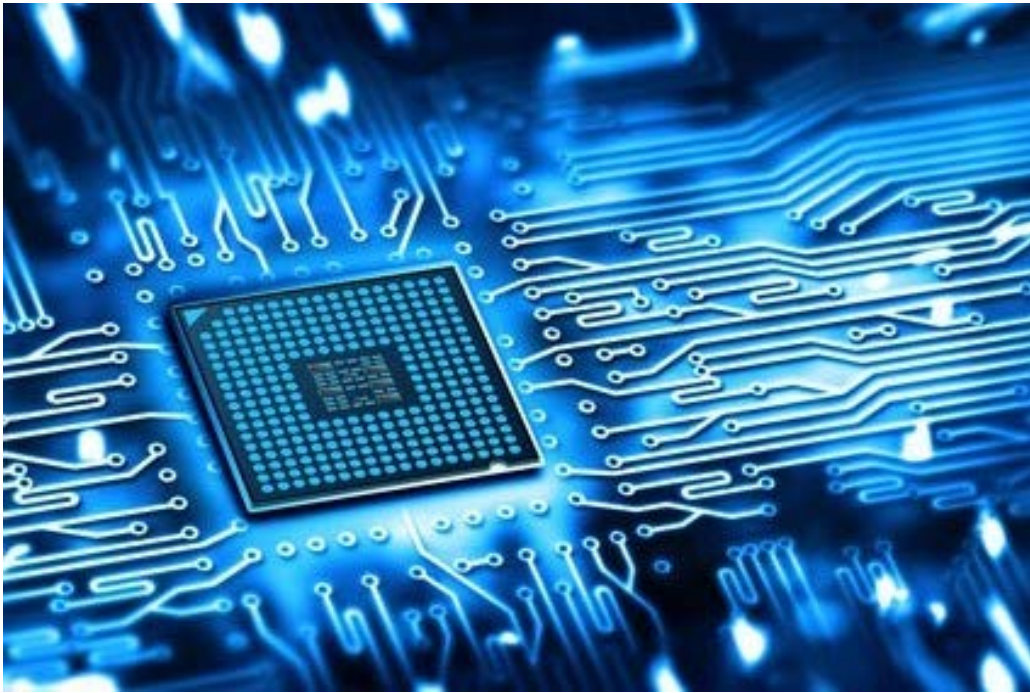


# Market Report Catalog

## Electronics Devices

December 2017



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## ■ Electronics Devices ■

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**The Global PV Inverter and MLPE Landscape: H2 2017**

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Global PV inverter shipments will reach a record 88.4 GWac in 2017, up from 80.4 GWac in 2015. The three largest solar markets - China, the United States and Japan - will each decline in 2018, resulting in flat shipment growth in 2018.

Inverter prices show no sign of stabilizing, current technology trends have not exhausted their cost-reduction potential, and many markets are still extremely fragmented. Not every company can be a global player, and so shifting demand and falling prices will result in increased market consolidation.

This report provides detailed, country-specific pricing and forecasts for microinverters, single-phase string inverters, three-phase string inverters, central inverters and DC optimizers. The report also profiles and provides current and historical shipment totals for 25 of the world's largest inverter suppliers.

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**Gallium Nitride Semiconductor Device Market by Device Type (Opto, Power, RF), Wafer Size, Application (Power Drives, Supply and Inverter, RF, Lighting and Laser), Vertical (Telecommunication, Consumer, Automotive), Geography - Global Forecast to 2023**

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[www.giiresearch.com/ce/574427](http://www.giiresearch.com/ce/574427)

The gallium nitride semiconductor device market is expected to be worth USD 22.47 billion by 2023, growing at a CAGR of 4.6% between 2017 and 2023. The major factors driving the growth of the gallium nitride semiconductor device industry include the vast addressable market for gallium nitride in consumer electronics and automotive, wide bandgap property of gallium nitride material encouraging innovative applications, success of gallium nitride in RF power electronics, and increasing adoption of gallium nitride RF semiconductor device in military, defense and aerospace application. However, the preference of silicon carbide in high-voltage power semiconductor devices is expected to be a potential restraint for the overall gallium nitride semiconductor devices market. This is expected to limit the market growth over the next few years.

"The global gallium nitride semiconductor device market for opto-semiconductor device type held the largest market share in 2016"

The global gallium nitride semiconductor device market for opto-semiconductor device type held the largest market share in 2016. This is attributed its wide application in consumer and enterprise, industrial, and automotive industry.

**RF Acoustic Wave Filters Patent Landscape**

Published by Knowmade

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Since the development of analog radio frequency (RF) communication in the early 1990's, front end modules have become key components. Among all front end module devices, filtering will be the strongest growing market over the next five years. A compound annual growth rate of 8% is set to make the filter market worth \$16 billion in 2022 according to Yole Développement's March 2017 report, 'RF Front End Modules and Components for Cellphones'. Acoustic wave technology has become the best way to deliver high performance, small and low-cost filters in analog RF communication. And today, as 5G communication protocols take shape, acoustic wave filter players have consolidated their position. They are now developing filters that will address the requirements of the upcoming 5G mass market.

In the 1990s, SAW filter patent publications grew rapidly, heralding the development of the RF acoustic wave filter market in the 2000s. Since 2010, the market has consolidated, while we have witnessed of the flattening of the patent activity growth and the strengthen of the IP position of several companies. It is now essential to understand the RF acoustic filter patent landscape, the key patented technologies and players' IP positions. Such knowledge can help anticipate the upcoming revolution, detect business opportunities, mitigate risks and make strategic decisions to strengthen one's market position.

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**Global Motor Control Contactors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/574614](http://www.giiresearch.com/ce/574614)

Motor control contactors are electromechanical relays used for switching a large amount of electrical power in industrial motors. The contactors typically protect electric motors from high voltage and current fluctuations and ensure optimal performance in heavy duty industrial applications. The global motor control contactors are a basic component of the part of the controller installed inside the enclosure. The high inrush starting current is a major problem for motor operations.

Technavio's analysts forecast the global motor control contactors market to grow at a CAGR of 5.50% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global motor control contactors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Growth Opportunities in the Global Sensor Market**

Published by Lucintel

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Trends, opportunities and forecast in this market to 2022 by sensor type (temperature sensor, pressure sensor, image sensor, position sensor, bio sensor, flow sensor, level sensor, motion sensor, radar sensor, chemical sensor, and other sensor), by end use industry (industrial, healthcare, electronics, automotive, aerospace and defense, and others), and by region (North America, Europe, Asia Pacific, and the Rest of the World)

The future of the global sensor market looks promising with opportunities in the industrial, healthcare, consumer electronics, automotive, and aerospace/defense industries. The global sensor market is expected to reach an estimated \$188.4 billion by 2022 with a CAGR of 9.2% from 2017 to 2022. The major drivers for this market are the growth of internet of things (IoT), increasing need of automation in various industries, and miniaturization of sensors.

Emerging trends, which have a direct impact on the dynamics of the sensor industry, include increasing sensor content in automotive for safety and power efficiency and advancement in the gas sensor.

## **World Market for Connectors Used in Mobile Infrastructure Equipment 2017 to 2022**

Published by Bishop & Associates, Inc.

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The wireless infrastructure market is evolving. While mobile operators must maintain their 2G and 3G networks, they are also busy upgrading as much of them as they can to LTE and LTE-A now and 5G in the next few years. Thus we are now starting to see entirely new types of equipment.

What mobile network infrastructure equipment will dominate from 2017-2022?

What connector types will be needed to support this growth and which companies are aligning themselves for this exponential evolution?

This report discusses, examines, and analyzes in detail these questions, providing forecast numbers by equipment and product type.

The growth of mobile Internet users is undeniable. One million new mobile Internet users are added to the network every single day. While the wireless network still supports 2G and 3G, 4G will be the dominant access technology worldwide by 2018. By 2022, there will be nearly 500 million subscriptions of 5G globally.

In order to support this growth, the entire mobile infrastructure network must be upgraded. Small cell, DAS, massive MIMO, and C-RAN technologies will play a role in the access, and metro and core will become increasingly digitized and packetized.

## **Global Automotive LIDAR Sensors Market 2017-2021**

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Light detection and ranging (LIDAR) sensing is a technology that measures the distance between the source and the target with the help of the laser light. In the automotive market, the main purpose of LIDAR sensors is to automate the detection of obstacles, which will increase the safety of using navigation system. There are two outputs from the LIDAR sensors, which determine the existence of obstacles. They are cost map and point cloud.

Technavio's analysts forecast the global automotive LIDAR sensors market to grow at a CAGR of 37.38% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive LIDAR sensors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Variable Frequency Drives: U.S. Municipal Industry Trends & Market Forecast**

Published by Bluefield Research

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U.S. water & wastewater utilities are increasingly seeking alternatives to become more energy-efficient, drive down operating costs, address resiliency and upgrade deteriorating infrastructure. As such, electric drives for motors and pumps are taking on a critical role in achieving these goals.

Variable frequency drives, which regulate the speed and rotational force, or torque output, of an electric motor, provide the potential to reduce energy consumption up to 30%.

Catalyzed by increasing pressure on utilities to address energy and water efficiency, growing urban populations, and tightening environmental regulation, annual investment in drives is expected to more than double from US\$279 million in 2017 to US\$607 million by 2026.

In this Market Insight, Bluefield water experts analyze:

- The Municipal Water Landscape for Drives Technology
- Drives Technology Competitive Landscape
- Municipal Utility Drives Infrastructure CAPEX Forecast
- Drives Manufacturer Profiles



**Airborne LiDAR Market by Solution (System & Services), Type (Topographic & Bathymetric (System & Services)), Platform (Fixed Wing Aircraft, Rotary Wing Aircraft & UAVs) and Region - Global Forecast to 2022**

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[www.giiresearch.com/ce/572136](http://www.giiresearch.com/ce/572136)

The airborne LiDAR market is projected to grow from an estimated USD 1,140.1 million in 2017 to reach USD 2,533.7 million by 2022, at a CAGR of 17.32% from 2017 to 2022. The airborne LiDAR market has been rapidly growing, especially in the Asia Pacific region, owing to the rapid infrastructural development and rising demand for surveying and mapping services. Increasing use of unmanned aerial vehicles in various applications and increasing adoption of LiDAR in engineering and construction applications are the factors driving the airborne LiDAR market globally. On the other hand, the lack of awareness among end users is restraining the market growth and technological constraints pose a challenge in the use of LiDAR. However, immense opportunities in GIS applications will positively impact the market growth.

"The system component is expected to be the largest market from 2017 to 2022"

The system component segment is expected to constitute the largest market of the airborne LiDAR market, by solutions, from 2017 to 2022. The system component segment covers both hardware and software. Hardware include lasers, scanners, and interface devices, inertial measurement systems, and GPS/position systems, among others. The increase in survey and terrain mapping applications across the globe is driving the market for airborne LiDAR system components.

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**Global Surface Mount Technology (SMT) Equipment Market 2017-2021**

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Surface mount technology (SMT) equipment is the equipment that is required to place components such as resistors and capacitors onto a printed circuit board (PCB). The components placed are known as surface mount devices. SMT equipment can be seen as a substitute for through-hole technology, which used to be a time-consuming process. Different types of SMT equipment include SMT placement equipment, SMT inspection equipment, SMT soldering equipment, and SMT cleaning equipment.

Technavio's analysts forecast the global surface mount technology (SMT) equipment market to grow at a CAGR of 8.66% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global surface mount technology (SMT) equipment market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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## **Global Man-Portable Military Electronics Market 2017-2027**

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Man-portable electronics market is expected to increase to US\$6.4 Billion by 2027, representing a CAGR of 3.29% during the forecast period (2017-2027). Rapidly increasing demand for lighter but advanced man-portable electronic systems, demand for miniature UAVs, and soldier modernisation initiatives being undertaken by defense ministries across the world have stimulated demand for man-portable electronic systems globally.

Communication man-portable electronics segment is expected to account for the highest proportion of spending, followed by the markets for ISTAR and force protection systems. Rapidly growing demand for communication devices, primarily on account of maritime border disputes between neighboring countries and demand from outstation soldiers, has driven the market in past years. Over the forecast period, communication man-portable electronics will account for a majority share of 56.7% of the global market.

During 2017-2027, North America is expected to lead the global man-portable electronics market. The region's spending will be largely driven by ongoing and planned future procurement programs of the US, which comprises a large majority of the region's overall investments on man-portable electronics systems.

## **Global Klystrons Market 2017-2021**

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Klystrons are part of the microwave devices. Microwaves are electromagnetic waves with wavelengths in the range of 0.001-0.3 m. Microwave devices can detect, generate, amplify, modify, or measure voltages or microwaves with microwave frequencies. Microwave devices are mainly used in communication, navigation, radar, radio astronomy, heating, and spectroscopy applications.

Technavio's analysts forecast the global klystrons market to decline at a CAGR of (6.88) % during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global klystrons market for 2017-2021. To calculate the market size, the report considers the revenue generated from the communications and defense sectors, owing to the microwave applications such as navigation, radar, and radio astronomy.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

**Pressure Sensor Market by Product (Absolute, Differential, Gauge, Vacuum, and Sealed), Technology (Piezoresistive, Capacitive, Electromagnetic, Resonant), Application (Automotive, Medical, Industrial, Utilities) and Geography - Global Forecast to 2023**

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[www.giiresearch.com/ce/253612](http://www.giiresearch.com/ce/253612)

*The pressure sensor market is expected to grow at a CAGR of 5.27% between 2017 and 2023 and would be worth USD 8.30 billion in 2017. The key factors driving the growth of the pressure sensor market are advancements in MEMS technology and its rapid adoption in connected devices, growing demand from automotive and medical device industries, increasing adoption of pressure sensors in consumer goods and wearables, and stringent government regulations. Moreover, the development strategies implemented by the players operating in the pressure sensor market, such as agreements, product launches and developments, partnerships, collaborations, mergers and acquisitions, further help boost the market growth. However, the major restraining factor for the growth of this market is the intense pricing pressure.*

*"Absolute pressure sensor expected to hold a larger share of the pressure sensor market during the forecast period"*

*The absolute pressure sensor is expected to hold a large share of the overall pressure sensor market owing to the increased use of pressure sensors in the automotive, medical, industrial, and utilities industries for oil pressure monitoring, fuel pressure monitoring, nitrous pressure monitoring, and transmission pressure monitoring.*

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**Inertial Measurement Unit (IMU) Market by Grade (Marine, Navigation, Tactical, Space, Commercial), Technology (RLG, FOG, MEMS), Application (Consumer Electronics, Aircraft, Missile, Marine, UAV, UGV, UMV), Component, and Region - Global Forecast to 2022**

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The inertial measurement unit market is projected to grow from an estimated USD 16.46 billion in 2017 to USD 21.74 billion by 2022, at a CAGR of 5.72% during the forecast period. This growth can be attributed to factors, such as high volume of production of consumer electronics, increased demand and production of aircraft and missiles, availability of components at affordable prices, and the need for accurate navigation systems providing high reliability. However, operational complexity associated with IMU based navigation systems and decline in defense budgets in some of the major countries are expected to restrain the growth of this market.

Based on application, the consumer electronics segment is estimated to account for the largest share of the inertial measurement unit market during the forecast period.

Based on application, the consumer electronics segment is estimated to account for the largest share in the inertial measurement unit market in 2017. Smartphones have become the biggest volume and value sales driver within consumer electronics. All smartphones and VR/AR devices use IMUs. High volume sales of smartphones and the booming VR/AR market are fueling the IMU market for consumer electronic products. The need for inertial measurement units in smartphones, smartwatches, and VR/AR headsets, among others, is contributing to the growth of the IMU market in consumer electronics.

**Adapter Processor Wired Scalable Infrastructure: Market Shares, Strategies and Forecasts, Worldwide 2017 to 2023**

Published by WinterGreen Research, Inc.

Pub. Date 2017/10/20

Price

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USD 8400 PDF by E-mail (Web Site License)

[www.giiresearch.com/ce/567981](http://www.giiresearch.com/ce/567981)

Worldwide markets are poised to achieve significant growth as the artificial intelligence software, IOT Internet of things, drones, self driving cars, and all manner of automated process increases use of the digital economy. Scalable Data Centers depend on infrastructure scalability excellence, which is achieved with a two layer architecture utilizing adapters and processors described in this study.

Data center solutions are moving in the direction of being open standards-based, software-driven, and able to work seamlessly with DevOps to achieve cross-domain automation. The aim of IT is to meet agility and efficiency goals. Scalable data center wired Adapter Processor represent one component of the move to a digital economy.

Speed is the new currency of business. Digital disruption is illustrated by Google, Facebook, and Amazon. Among many other well-known digital disruptors Salesforce stands out. These companies have IT that is characterized by the ability to respond to opportunities quickly. It is no longer possible to beat the competition by having a better product, lower prices, and the best people. That still matters, but is not enough.

## **GLOBAL SEMICONDUCTOR IN AEROSPACE & MILITARY MARKET FORECAST 2017-2024**

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Pub. Date 2017/10/20

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[www.giiresearch.com/ce/568467](http://www.giiresearch.com/ce/568467)

The global semiconductor in aerospace & military market is projected to rise with a CAGR of 5.88% for the forecast period 2017-2025. The market is propelled by increasing expenditure for military & aerospace and growing Internet of Things (IoT) industry. Also, various governments across the globe are heavily spending on R&D for this market, aiding the market expansion.

### MARKET INSIGHTS:

Several modern military and aerospace equipment such as data processing units, data display systems, computers, and aircraft guidance-control assemblies are loaded with semiconductor devices. The increasing R&D expenditure is presenting the global market with numerous opportunities. Novel memory technologies are expected to emerge over the forecast period which might help lower the cost and density limitations of NAND and DRAM flash for servers. Silicon photonics are predicted to emerge as the leading technology for this market.

## **Automotive HUD Market by Technology (Augmented Reality, Conventional), Type (Combiner, Windshield), End-User (Economic, Luxury, Mid-Segment), Fuel Type (ICE, BEV, Hybrid), Vehicle Type (Passenger, Commercial), and Region - Global Forecast to 2025**

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[www.giiresearch.com/ce/321801](http://www.giiresearch.com/ce/321801)

"Increasing consumer demand for advanced automotive safety functions and favorable government regulations supporting vehicle safety are expected to fuel the demand for the automotive head-up display (HUD) system"

The automotive HUD market is estimated to be USD 759.6 million in 2017 and is projected to grow at a CAGR of 28.54% during the forecast period (2020-2025) to reach a market size of USD 13,022.0 million by 2025. Consumers are increasingly considering advanced automotive safety functions and technologies while making purchasing decisions. Further, government regulations in the developed regions of North America and Europe are increasingly favoring automotive innovations and technologies that support vehicle and road safety.

"Battery Electric Vehicle (BEV) is the fastest growing segment of the automotive HUD market, by fuel type"

The increase in demand for BEV is encouraging OEMs to develop the HUD for electric vehicles. Key German automotive manufacturer Volkswagen AG has estimated to launch more than 2 million electric vehicles with augmented reality head-up display by 2025. Governments across the globe are making conscious efforts to end the production and sales of petrol and diesel vehicles.

**GLOBAL SEMICONDUCTOR MARKET FORECAST 2017-2024**

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[www.giiresearch.com/ce/568468](http://www.giiresearch.com/ce/568468)

The global semiconductor market was valued at \$463.5 billion in 2016 and is projected to reach \$831.5 billion by 2024, growing at an estimated CAGR of 7.67%, for the forecast period of 2017-2024.

Increasing investments in research and development, growing demand for consumer electronics, and evolving IOT market are all contributing to the market growth.

**MARKET INSIGHTS:**

The global semiconductor market is segmented on the basis of the end-use segment, which is further divided into communications, military & civil aerospace, consumer electronics, data processing, automotive, industrial devices and other end uses. The increasing demand for drones & unmanned autonomous vehicles (UAV'S) is likely to augment the demand for the semiconductor market. However, the market faces some major concerns with respect to the cyclic nature of semiconductor industry, fluctuating foreign exchange rates, and regional imbalance in consumption patterns.

**Global Rugged Display Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/19

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/572154](http://www.giiresearch.com/ce/572154)

A rugged display is a display that is specifically designed for operating reliably in harsh environments and conditions such as strong vibrations, extreme temperatures, and wet or dusty conditions of use. These displays are designed for rough use generally required under the above-mentioned conditions. The typical environments for devices using rugged displays are public safety, field sales, field service, manufacturing, retail, healthcare, transportation and logistics, and military. They are used in the agricultural industry and also by individuals for outdoor recreation activities.

Technavio's analysts forecast the global rugged display market to grow at a CAGR of 5.84% during the period 2017-2021.

**Covered in this report**

The report covers the present scenario and the growth prospects of the global rugged display market for 2017-2021. To calculate the market size, the report considers the shipments, sales, and value.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

Technavio's report, *Global Rugged Display Market 2017-2021*, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the market landscape and its growth prospects over the coming years. The report also includes a discussion of the key vendors operating in this market.

## **Global Hyperspectral Remote Sensing Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/19

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[www.giiresearch.com/ce/572152](http://www.giiresearch.com/ce/572152)

Hyperspectral remote sensing is a developing technology, which is currently being used by researchers and scientists for the detection and identification of minerals, terrestrial vegetation, and environmental disasters. Hyperspectral remote sensing provides high spatial or spectral resolution data from a distance, providing high quality radiance for each picture element, also known as pixels. The benefits of hyperspectral remote sensing remain unknown to many potential end-users like governments, farmers, environmental watchers in both the private and governmental sectors, and city planners.

Technavio's analysts forecast the global hyperspectral remote sensing market to grow at a CAGR of 11.78% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global hyperspectral remote sensing market for 2017-2021. To calculate the market size, the report considers the shipments, sales, and volume.

## **Global Pressure Sensor Dies Market 2017-2021**

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[www.giiresearch.com/ce/572151](http://www.giiresearch.com/ce/572151)

A pressure sensor is a device that is used to detect pressure changes and convert it into an electrical signal, which can be modulated depending on the intensity of pressure. As these devices convert pressure into electrical signals, they are also known as pressure transducers. Pressure sensors find various applications in touch screen device, automotive, bio medical instrument, aviation, marine, and heavy industries.

Technavio's analysts forecast the global pressure sensor dies market to grow at a CAGR of 7.43% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global pressure sensor dies market for 2017-2021. To calculate the market size, the report considers the revenue obtained from the sale of sensor dies.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

**2017 Semiconductors in Medical Electronics**

Published by Databeans, Inc.

Pub. Date 2017/10/18

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USD 4450 PDF and XLS File By E-mail (Corporate Wide Licensing)

[www.giiresearch.com/ce/237355](http://www.giiresearch.com/ce/237355)

The application design using semiconductors in the medical industry continues to advance with more connectivity, smaller form factors, and higher performance. This market categorically should be growing much faster than other commercial markets, but there are several factors that impact this segment which has curtailed growth, including public policy and skyrocketing cost. Nevertheless, the market is on track this year for growth.

This report covers the entire medical market including data on wearables used both for medical monitoring and for consumer fitness. Forecasts are provided by region, application market segment, application, and by product type. Trends are discussed for the application market as well as the silicon used to create the finished equipment. Market share is also provided for the semiconductor suppliers as well as the equipment manufacturers. Equipment manufacturer spending on semiconductors is also estimated and included.

**Global Gas Detector Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/18

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/570528](http://www.giiresearch.com/ce/570528)

A gas detector is a safety device used for detecting the presence of harmful gases. It has an alarm to alert people to evacuate a building. Based on product type, the global gas detector market is segmented into two categories including portable gas detectors and fixed gas detectors. Fixed gas detectors accounted for a higher market share in 2016. However, portable gas detectors will gain market share during the forecast period due to its quality and flexibility.

Technavio's analysts forecast the global gas detector market to grow at a CAGR of 4.76% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global gas detector market for 2017-2021. To calculate the market size, the report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.



## **Global Automotive Position Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/570523](http://www.giiresearch.com/ce/570523)

Automotive electronics, such as microprocessor-based automotive engine control modules, have graced the automotive domain since the 1970s. The use of such electronics helps carmakers to abide by federal emission regulations and at the same time improve vehicle operation. The electronic content of vehicles has gradually risen since that time. The adoption of sensors increased in the late 1990s. One of the most notable automotive sensor technological advances, MEMS technology, was developed well before the 1990s. Position sensors based on MEMS technology were deployed for powertrain and engine control applications.

Technavio's analysts forecast the global automotive position sensor market to grow at a CAGR of 6.79% during the period 2017-2021 .

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive position sensor market for 2017-2021 . To calculate the market size, the report considers the revenue of position sensors fitted in the passenger cars and commercial vehicles. The estimation is based on position sensors used for powertrain applications and other applications.

## **Global Transparent Displays Market Analysis & Trends - Industry Forecast to 2025**

Published by Accuray Research

Pub. Date 2017/10/17

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USD 7000 Printable PDF by Email (Corporate License)

[www.giiresearch.com/ce/373600](http://www.giiresearch.com/ce/373600)

The Global Transparent Displays Market is poised to grow strong during the forecast period 2017 to 2025. Some of the prominent trends that the market is witnessing include increasing attractiveness of transparent display among gaming business, growing trend towards smart wearables and recent technological developments in transparent displays.

Based on technology the market is categorized into E-Paper, OLED and LCD. By application the market is segmented by wearable computing, building-related, retail, mobile displays, military, automotive and other applications. Wearable Computing is sub divided into watches and glasses & helmets. Building-related applications are sub segmented into refrigerators, hybrid window/displays and other appliances. Retail applications are further segregated into vending machines, advertising displays & store windows and display cases. Mobile Displays are classified into laptops and notebooks and cell phones and tablets. Other Applications include museum displays and casino games.

## **Global Flexible Displays Market Analysis & Trends - Industry Forecast to 2025**

Published by Accuray Research

Pub. Date 2017/10/17

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USD 7000 Printable PDF by Email (Corporate License)

[www.giiresearch.com/ce/373601](http://www.giiresearch.com/ce/373601)

The Global Flexible Displays Market is poised to grow strong during the forecast period 2017 to 2025. Some of the prominent trends that the market is witnessing include huge demand for smart wearables market and rising applications of flexible displays.

By Form the market is bifurcated into rollable, curved, stretchable, bendable and foldable. By Component the market is segmented into conductive layer, organic material, backlight panel, substrate and other components.

Depending on panel size, the market is classified into 6-20, Up to 6, above 50 and 20-50. Based on application, the market is segregated into E-Reader & E-paper, smartphones and tablets, smart home appliances, televisions and digital signage systems, electronic shelf labels (ESLS), smartwatches and wearables, pc monitors and laptops, vehicles and public transports and automotive displays and lighting.

By size the market is segmented into medium sized, large sized and small sized. Depending on material substrate, the market is categorized into glass, plastic and other substrates.

## **Global Commercial Vehicles LED Bar Lights Market 2017-2021**

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Price

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[www.giiresearch.com/ce/570504](http://www.giiresearch.com/ce/570504)

Automotive LED bar lights are used in the vehicles as a purpose of alerting the other vehicles and pedestrians walking on the roads about their location and position. LED technology is now being used in bar lights as a means to increase the overall safety of the vehicles and other unprotected road users. In commercial vehicles, the adoption of LED light bars makes more sense as the commercial vehicles are usually larger in shape and size, thereby, making them more vulnerable to on-road collisions.

Technavio's analysts forecast the global commercial vehicles led bar lights market to grow at a CAGR of 31.54% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicles led bar lights market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

**Global Polysilicon Market 2017-2021**

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[www.giiresearch.com/ce/285573](http://www.giiresearch.com/ce/285573)

Polysilicon is high purity polycrystalline form of silicon derived from quartzite, a form of quartz sandstone rock. Owing to its semiconductor properties, polysilicon is used in various applications such as solar photovoltaics and electronics. The three grades of polysilicon are high-purity, secondary-grade, and recycled grade. Though manufacturers prefer various production technologies, the two key production techniques are fluidized bed reactor (FBR) and the Siemens process. The production technique depends on the end-user application and production capacity.

Technavio's analysts forecast the global polysilicon market to grow at a CAGR of 13.11% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global polysilicon market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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**Wireless Display Market by Offering (Hardware, Software & Services), Application (Consumer, Commercial - Corporate, Education, Healthcare, Signage, Government), Technology Protocols (Miracast, WiDi), and Geography - Global Forecast to 2023**

Published by MarketsandMarkets

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[www.giiresearch.com/ce/569190](http://www.giiresearch.com/ce/569190)

The wireless display market was valued USD 2.86 billion in 2017 and is expected to be worth USD 5.38 billion by 2023, at a CAGR of 11.1% between 2017 and 2023. The quality of the hardware is important in the deployment of the wireless display technology in consumer and commercial (corporate, healthcare, and education) applications. The technology has significantly improved, and some vendors offer solutions, which can support 4K resolution of video content. The gradual price erosion would also help the market grow in the existing segments. The ease of setup and the effective cost utilization is promoting the wireless display technology in the commercial application. The availability of substitute products such as HDMI ports and its increasing popularity may hinder the growth of the wireless display market.

"The ease of setup of the wireless display technology in the commercial application along with long-term cost-saving benefits would help this segment to grow at a significant rate during the forecast period"

## **Global Display Packaging Market 2017-2021**

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[www.giiresearch.com/ce/570495](http://www.giiresearch.com/ce/570495)

Display packaging is used to pack products for increasing their aesthetic value by adding innovative packaging designs and packaging solutions such as point-of-purchase (POP), point of sale (POS), and free-standing display units (FSDUs). It is also referred as the packaging provided to retailers by the manufacturers in a ready-to-sell form. Display packaging eliminates the requirement for packing and repacking of the products when it is being placed for sale on the retail shelf.

Technavio's analysts forecast the global display packaging market to grow at a CAGR of 7.08% during the period 2017-2021.

*Covered in this report*

The report covers the present scenario and the growth prospects of the global display packaging market for 2017-2021. To calculate the market size, the report considers the revenue generated by the vendors operating in the global display packaging market.

## **Global Signal Conditioning Modules Market 2017-2021**

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[www.giiresearch.com/ce/570484](http://www.giiresearch.com/ce/570484)

Signal conditioning modules are devices that condition the signal for transmission between a field device and an analog-to-digital converter (ADC) in a data acquisition system. The signal conditioning module isolates, attenuates, and amplifies the signal in order to meet the data acquisition system's specifications. As these modules are used with almost all field devices, the closely related markets for signal conditioning modules include the data acquisition systems market and the ADCs market.

Technavio's analysts forecast the global signal conditioning modules market to grow at a CAGR of 5.21% during the period 2017-2021.

*Covered in this report*

The report covers the present scenario and the growth prospects of the global signal conditioning modules market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

**Global LED Grow Lights Market, Analysis & Forecast 2017-2021: Focus on Power Consumption (Low and High Power), Spectrum (Partial and Full), and Application (Commercial Greenhouse, Indoor/Vertical Farming, Turf & Landscaping)**

Published by BIS Research

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[www.giiresearch.com/ce/566784](http://www.giiresearch.com/ce/566784)

With the increase in population and urbanization, the demand for food has increased. Also the need to reduce energy consumption and increasing emphasis on food security have helped the market for LED grow lights to flourish. This combined with developing trend for indoor farming have led to the growth of the LED grow lights market, which is expected to grow at a CAGR of 28.9% through 2016 to 2021. The report is a compilation of the different segments of global LED grow lights market, including market breakdown by application, power consumption, spectrum type and geographical areas. Herein the revenue generated from the applications, namely: commercial greenhouse, indoor farming, vertical farming, turf and landscaping, and others (Research); power consumption, namely: low power consuming (<300W) and high power consuming (>=300W); spectrum type, namely: full spectrum and partial spectrum, and geography, namely: North America, Europe, Asia-Pacific, South America, and Middle East and Africa is tracked to calculate the overall market size. The report also provides market numbers and analysis on cross segments which include power consumption by application and spectrum type by application. While highlighting the key driving and restraining forces for this market, the report also provides a detailed summary of the LED grow lights market. It also includes the key participants involved in the industry at the relevant sections.

**Global Two-Wheeler Connectors Market 2017-2021**

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[www.giiresearch.com/ce/570482](http://www.giiresearch.com/ce/570482)

A connector is a device which helps in connecting the internal controls of an appliance, as well as helps in the transmission of electrical signals from the power source of the appliance to the electronic equipment. It links various components and systems together with the help of electrical circuits. A connector can be of various shapes, sizes, quality standards, and complexity, as it is designed to perform different functionalities.

Technavio's analysts forecast the global two-wheeler connectors market to grow at a CAGR of 8.38% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global two-wheeler connectors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Semiconductor Assembly and Testing Services Market 2017-2021**

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[www.giiresearch.com/ce/570488](http://www.giiresearch.com/ce/570488)

The number of electronic devices we use in our day-to-day life has been increasing in the past few decades. These devices range from simple media players, smartphones, laptops, and TVs to wearable smart watches and Internet of Things (IoT) devices such as connected thermostats, automated lighting, and remote health monitoring equipment. Semiconductor assembly and testing services (SATS) or outsourced semiconductor assembly and testing (OSAT) refers to the outsourcing of integrated circuit packaging and final product testing to third-party service providers.

Technavio's analysts forecast the global semiconductor assembly and testing services market to grow at a CAGR of 5.68% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global semiconductor assembly and testing services market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Solid State Drive (SSD) Market by Form Factor (2.5", 3.5", M.2, U.2/SFF 8639, FHHL/HHHL), Interface (SATA, SAS, PCIe), Technology (SLC, MLC, TLC), End-user (Enterprise, Client, Industrial, Automotive), and Geography - Global Forecast to 2023**

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[www.giiresearch.com/ce/353570](http://www.giiresearch.com/ce/353570)

The solid state drive market has entered its growth phase and is expected to grow further in the coming years. The market for solid state drive is likely to be valued at 26.47 billion in 2017 and USD 60.22 billion by 2023, at a CAGR of 14.68% between 2017 and 2023. The drivers for this market are the increasing penetration of high-end cloud computing, growing adoption of SSDs in data centers, and advantages of SSDs over HDDs. The main restraints for this market are inconsistency in low-rate latency offered by SSDs and the high cost of SSDs.

"Market for PCIe interface SSD expected to grow at the highest CAGR during the forecast period"

The market for PCIe interface SSD is expected to grow at the highest CAGR during the forecast period. This is owing to the advantages offered by PCIe such as high speed, enhanced performance scaling, and detailed error detection and reporting over other interfaces. The demand for PCIe interface is growing rapidly in the solid state drive market because of its advanced features such as low latency and high performance.

## **Global Printed Circuit Board Market 2017-2021**

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[www.giiresearch.com/ce/325008](http://www.giiresearch.com/ce/325008)

Printed circuit board, also known as printed wiring cards or printed wiring boards, is a thin board printed with electrical wires. The electrical wires are connected to the processor, CPU, and other interconnected electronic components on the board. Printed circuit board uses solder metal to make electrical connections between printed circuit board board and electronic components. Due to this, printed circuit board allows power and signals to route between physical devices. Printed circuit boards are primarily used to mechanically support and electrically connect the electronic components by various conductive paths.

Technavio's analysts forecast the global printed circuit board market to grow at a CAGR of 6.14% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global printed circuit board market for 2017-2021. To calculate the market size, the report considers the revenue generated from end-use segments such as the automotive electronics, communication network infrastructure, consumer electronics, military and aerospace, healthcare, and industrial.

## **Smart Transformers Market by Component (Converters, Switches, Transformers, Hardware for Transformer Monitoring), Type (Power, Distribution, Specialty, and Instrument), Application, and Region - Global Forecast to 2022**

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[www.giiresearch.com/ce/333121](http://www.giiresearch.com/ce/333121)

The global smart transformers market is valued at USD 1.47 billion in 2017, and is expected to grow at a CAGR of 10.54%, from 2017 to 2022. The global market is set to witness significant growth due to increasing emphasis on alternative energy production across the globe, digitalization of power utilities, and huge investments in smart grids and energy systems. Although some cost bearing constraints in the installation of smart transformers are being observed, emerging economies are expected to create better opportunities for the smart transformers market. Low acceptance level among end-users is expected to be a major challenge for the smart transformers market.

"The smart grid segment is expected to have the largest market share by 2022"

With regard to the end-use application segment, the smart grid segment is expected to constitute the largest market by 2022. One of the biggest uses of a smart transformer in smart grids is its role in integrating power from distributed generation into the main grid. Smart grids have two-way communication for real-time monitoring and controlling of network characteristics. For this, the basic step is the implementation of smart meters for end-user interactions, followed by employing smart transformers in the network to further strengthen communications and avoid power outages.

**FPGA Market by Technology (SRAM, Antifuse, Flash), Node Size (Less than 28 nm, 28-90 nm, More than 90 nm), Configuration (High-End FPGA, Mid-Range FPGA, Low-End FPGA), Vertical (Telecommunications, Automotive), and Geography - Global Forecast to 2023**

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USD 5650 PDF by E-mail (Single User License) ~

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[www.giiresearch.com/ce/352641](http://www.giiresearch.com/ce/352641)

The FPGA market is expected to be valued at USD 9.50 billion by 2023 from 5.83 billion in 2017 and grow at a CAGR of 8.5% between 2017 and 2023. The key driving factor for the growth of the FPGA market is the growing demand for advanced driver-assistance systems (ADAS), the growth of IoT, and reduction in time-to-market. However, the inability of FPGAs to substitute application-specific integrated circuit (ASIC) devices is the major challenge in the market.

"Telecommunications vertical expected to dominate the FPGA market during the forecast period"

Telecommunications held the largest size of the FPGA market in 2016. This vertical contributes significantly to the economy of most of the countries and includes both wired and wireless communications; 3G, 4G LTE, and 5G services are widely adopted across the world, mostly in North America and APAC. Moreover, the number of internet users has increased even in the rural areas. These advancements have increased the number of network infrastructure providers and mobile network operators. These operators require more bandwidth and higher speed of data or download speed to fulfill the needs of customers. Advanced FPGAs are able to meet these demands due to which telecommunications is expected to hold the largest size of the FPGA market by 2023.

**Semiconductor IP Market by Design IP (processor IP, interface IP, memory IP), Source (royalty and licensing), vertical (consumer electronics, telecom, industrial, automotive, commercial), and Geography - Global Forecast to 2023**

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[www.giiresearch.com/ce/235780](http://www.giiresearch.com/ce/235780)

The semiconductor IP market is in a growth phase and is expected to grow further in the coming years. The market is expected to be worth USD 6.22 billion by 2023, at a CAGR of 4.87% between 2017 and 2023. The drivers for this market are the advancement in multicore technology for consumer electronics sector, increasing demand for modern SoC designs, rising chip design cost and expenditure and growing demand for connected devices. However, IP thefts, counterfeits, and conflicts on the global semiconductor IP market is likely to be a major challenge for this market.

"The semiconductor IP market for memory IP is estimated to grow at the highest CAGR during the forecast period"

The market for memory IP is expected to grow at the highest CAGR during the forecast period. The growth of the market for memory IP is attributed to the need for high-speed, low-power-consuming, and highly scalable memory devices as well as to the growing demand for memory in connected and wearable devices.



**Global Cleanroom Luminaires Market 2017-2021**

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A cleanroom is an enclosure that is environmentally controlled in terms of the number of airborne particulates, air pressure, temperature, humidity, static charges, airflow patterns and motion, as well as lighting. The adhesion of particles to surfaces is prevented to obtain high-quality and reliable electronic end-products. The degree of cleanliness of a cleanroom depends on the number of particles contained in a unit volume of air, for instance, per cubic meter of air. Therefore, smaller the cleanliness class, higher the grade, which implies less dust in the cleanroom. The ISO cleanliness standard 14644 was established in 2000. This standard replaced the US FS-209D E (Federal Standards). However, the US standard is still used in certain cleanrooms to determine cleanliness.

Technavio's analysts forecast the global cleanroom luminaires market to grow at a CAGR of 5.18% during the period 2017-2021.

**Magnetic Field Sensor Market by Type (Hall Effect, Magnetoresistive (AMR, GMR, TMR), SQUID, Fluxgate)), Range (<1 Microgauss, 1 Microgauss-10 Gauss, and >10 Gauss), Application, End-User Industry, Geography - Global Forecast to 2023**

Published by MarketsandMarkets

Pub. Date 2017/10/10

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[www.giiresearch.com/ce/227321](http://www.giiresearch.com/ce/227321)

The overall magnetic field sensor market is expected to be valued at USD 5.37 billion by 2023, growing at a CAGR of 8.77% between 2017 and 2023. The key factor contributing to the growth of the magnetic field sensor market is the growing applications of magnetic sensors in consumer electronics such as smartphones, consumer drones, wearables, and gaming consoles. However, inconsistent magnetic field strength and other technological limitations are the key restraints for the growth of the magnetic field sensor market. The growing importance of magnetic sensors in hybrid and electric vehicles is the major opportunity for the studied market.

"Hall effect magnetic field sensors expected to hold largest market size during forecast period"

Most of the consumer and automotive applications require an inexpensive, robust, and durable sensing technology. For most of the consumer and automotive applications, Hall effect sensor is one of the most apparent choices owing to its noncontacting feature, durability, and robustness to dirt and other environmental contaminants. Thus, Hall effect sensors are expected to hold the leading position in the magnetic sensor market between 2017 and 2023.

## **Global Industrial Signal Converter Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/10

Price

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[www.giiresearch.com/ce/565858](http://www.giiresearch.com/ce/565858)

*Industrial signal converters are integral parts of production processes in industries. These converters are used for safe and reliable transmission of analog signals collected from sensors and actuators. Signal converters are essential equipment in industries such as mining and oil and gas, wherein process variables such as temperature and pressure are the prevalent aspects. It is of utmost importance in such industries to accurately measure analog signals for precision in process and safety reasons.*

*Technavio's analysts forecast the global industrial signal converter market to grow at a CAGR of 4.33% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global industrial signal converter market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

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## **Global Microcontroller Socket Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/565850](http://www.giiresearch.com/ce/565850)

*A microcontroller socket is an electromechanical device, which provides a removable interface between the IC package and the system circuit board with minimal effect on integrity. Microcontroller sockets are used to integrate microcontrollers for embedded applications or other general-purpose applications such as extending the connection of microcontroller to embedded boards. Microcontroller sockets are also called as target development boards.*

*Technavio's analysts forecast the global microcontroller socket market to grow at a CAGR of 7.25% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global microcontroller socket market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Global Welding Controllers Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Welding controllers are required to adjust the time and welding current necessary to ensure a good weld. These controllers are protected against high transient voltage and spikes. The global welding controllers market mainly includes two types of resistance welding controllers, namely spot welding controllers and seam welding controllers. The use of such controllers as considered in this report is mainly noted in the automotive and auto component manufacturing, electronics and semiconductor, aerospace and defense, and heavy machinery industries.

Technavio's analysts forecast the global welding controllers market to grow at a CAGR of 7.17% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global welding controllers market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Pneumatic Actuator Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/565847](http://www.giiresearch.com/ce/565847)

Actuators are devices that use a power source to operate a valve. They are used to automate industrial valves in industries such as power generation, oil and gas, mining, chemical and petrochemical, automotive, semiconductor, and food and beverage. While manually operated actuators require manual adjustment, power operated actuators can be operated and adjusted by using electric current, gas, or hydraulic pressure. With the help of power operated actuators, valves can be used in areas where human intervention can be unsafe.

Technavio's analysts forecast the global pneumatic actuator market to grow at a CAGR of 4.04% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global pneumatic actuator market for 2017-2021. To calculate the market size, the report considers the new installations sales/value and installation services market.

## **Global Residential Cable Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/09

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[www.giiresearch.com/ce/565841](http://www.giiresearch.com/ce/565841)

The cables and wires industry has witnessed a significant growth over the past two decades. The industry has transformed from a small-scale to a large-scale industry in the current period. The substantial growth witnessed in the industrial, manufacturing, and construction sectors has resulted in the development of all the economies across the globe. The growth in commercial and residential construction has played a crucial role in driving the market for wires and cables.

Technavio's analysts forecast the global residential cable market to grow at a CAGR of 5.25% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global residential cable market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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## **Aircraft Sensors Market (Product - Turbofan, Turboprop, and Turbohaft; Application - Commercial, Military, and General) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2022**

Published by Transparency Market Research

Pub. Date 2017/10/06

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[www.giiresearch.com/ce/572239](http://www.giiresearch.com/ce/572239)

The global aircraft sensors market is foretold to significantly benefit from the dominance of North America in 2017, which could continue even until the end of 2022. It could gather a whole lot of demand in the foreseeable future due to the ongoing profit status of the aviation sector in the developed region. The presence of major aircraft manufacturers such as Bell Helicopter, Lockheed Martin, and Boeing could up the demand for aircraft sensors in the region.

Buyers of this report are projected to embrace a complete understanding about important factors that could impact the growth and demand in the global aircraft sensors market. With the help of this intelligent and exclusive guideline, readers could take near-accurate and vital decisions while operating in the market. Furthermore, the report is considered to offer encyclopedic sets of data related to market figures, growth projections, and potential prospects.

## **Wireless Gas Detection Market - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2022**

Published by Transparency Market Research

Pub. Date 2017/10/06

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[www.giiresearch.com/ce/572236](http://www.giiresearch.com/ce/572236)

The research on the global wireless gas detection market provides an incisive analysis of key factors and current trends shaping the dynamics. The report offers a comprehensive overview of supply chain structure, pricing and cost analysis, raw material sourcing strategies, profile of distributors and vendors. It further offers shares of various segments based on product, application, technology and end user and analyzes the size of various regional markets. The study evaluates various trends broadly influencing the evolution of prominent segments in various regions. The insights offered in the study help market participants reliably assess the competitive dynamics in the coming years and help them in impactful strategy formulation. Recent developments and emerging opportunities in various regional markets help in identifying lucrative avenue over the forecast period (2017 -2022).

The global wireless gas detection market is projected to grow from US\$1,130.8 Mn in 2017 to reach US\$1,771.4 Mn by 2022 end. The market is projected to expand at a CAGR of 9.4% from 2017 to 2022.

## **Universal Flash Storage Market by Capacity (32 GB, 64 GB, 128 GB, 256 GB, 512 GB), Configuration, End Use (Automotive Electronics, Digital cameras, Gaming Consoles, High-Resolution Displays, Smartphones), Application, Geography - Global Forecast to 2023**

Published by MarketsandMarkets

Pub. Date 2017/10/06

Price

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[www.giiresearch.com/ce/564913](http://www.giiresearch.com/ce/564913)

The universal flash storage market is estimated to grow from USD 3.59 billion in 2017 and is estimated to reach USD 9.97 billion by 2023, at a CAGR of 18.6% during 2017-2023. This growth can be attributed to the growing demand for electronic devices with faster performance and improved responsiveness, rising adoption of high-speed data transfer technologies, and increasing demand for wearable electronics.

"External card is expected to lead the universal flash storage market during the forecast period"

External cards are expected to lead the universal flash storage market in 2017. Universal flash storage external cards support achieving power-efficient data transport, enhanced performance, and doubling throughput via command queuing. Key players are focusing on developing innovative memory solutions to cater to their growing requirements of consumers such as high-resolution movie playback, high-resolution 3D gaming, and high-end DSLR camera for enhancing their multimedia experience.

## **Global Damper Actuators Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/565815](http://www.giiresearch.com/ce/565815)

Actuators are devices used to control the movement and action of valves either automatically or manually, based on the desired application and type of valves used. Typical automatic actuators are hydraulic, electric, or pneumatic. These are used to automate industrial valves in end-user industries such as power generation, oil and gas, mining, chemical and petrochemical, automotive, semiconductor, food and beverage, and buildings. While manually operated actuators require manual adjustment, power-operated actuators can be operated and adjusted by using electric current, gas, or hydraulic pressure. With the help of power operated actuators, valves also can be operated in areas where human intervention is limited or unsafe. In such cases, valves are subjected to severe harsh conditions, and thus require a superior grade of materials, and regular monitoring and control. Different raw materials are used in valve manufacturing for different designs, based on the end-user industry and application requirement.

Technavio's analysts forecast the global damper actuators market to grow at a CAGR of 6.62% during the period 2017-2021.

## **Digital Isolator Market by Isolation Type (Capacitive Coupling, Magnetic Coupling, Giant Magnetoresistive), Data Rate, Channel, Application, Vertical, and Geography - Global Forecast to 2023**

Published by MarketsandMarkets

Pub. Date 2017/10/05

Price

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[www.giiresearch.com/ce/563420](http://www.giiresearch.com/ce/563420)

The digital isolator market is expected to be valued at USD 1.46 billion in 2017 and is likely to reach USD 2.07 billion by 2023, at a CAGR of 6.0% between 2017 and 2023. The growing demand for noise-free electronics and the increasing usage of renewable energy sources are driving the growth of the market. Further, digital isolators are increasingly being used as a substitute for optocouplers; this is contributing to the growth of the digital isolator market. However, digital isolators can only transmit signals with data rates over 100 Kbps and need an attached modulator to transmit signals below the aforementioned data rates. This is limiting the growth of the market.

"Gate drivers accounted for the largest share of the global digital isolator market in 2016."

Gate drivers accounted for the largest share of the digital isolator market in 2016; the market for gate drivers is expected to grow at a high rate during the forecast period. This market growth can be attributed to the wide use of gate drivers in engines of electric vehicles and the large-scale electrification of automobiles in developed economies, such as the US, Germany, Japan, and the Nordic Countries. Gate drivers are also used to drive motors in the industrial sector.

## **Global Fume Hood Monitors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/565814](http://www.giiresearch.com/ce/565814)

Fume hood monitors are devices attached to fume hoods that provide information to the user regarding the face velocity and airflow of fume hoods. These devices alert the user by giving an alarm at the time of undesirable airflow. The fume hood monitors market is segmented based on the type of fume hoods used for applications such as laboratory testing services, scientific R&D, diagnostic and medical laboratories, scientific and economic consulting, and manufacturing.

Technavio's analysts forecast the global fume hood monitors market to grow at a CAGR of 2.10% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global fume hood monitors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Needle-free IV Connectors Market - Global Industry Insights, Trends, Outlook, and Opportunity Analysis, 2017-2025**

Published by Coherent Market Insights

Pub. Date 2017/10/04

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[www.giiresearch.com/ce/554058](http://www.giiresearch.com/ce/554058)

Needle-Free IV Connectors are routinely used in the hospitals for intravenous administration of fluids and medicines to protect the hubs in vascular access systems. In order to reduce risks of possible contaminations associated with the IV administration and to curb manipulation as much as possible, needle free IV connectors can prove to be ideal in all types of IV infusions. Furthermore, technological advancements such as connectors that prevent fluid reflux, highly closed systems, and connectors embedded with antimicrobial agents (V-Link) have helped to decrease the risk of bloodstream infections associated with IV administration. Needle-free connectors are with extended dwell time that can help preventing intraluminal contamination and device cross-contamination, which can be favorable for the growth of the market in the near future.

Market Dynamics

Government organizations and regulatory bodies namely Centers for Disease Control and prevention (CDC) have recommended the usage of needle-free connectors to reduce the incidence of sharp injuries and blood stream infections mandating its usage in medical facilities in the 'Guidelines for the Prevention of Intravascular Catheter-Related Infections' in 2011.

## **Head-up Displays: Technologies and Global Markets**

Published by BCC Research

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[www.giiresearch.com/ce/306916](http://www.giiresearch.com/ce/306916)

The scope of this report is comprehensive, covering the present status and future prospects for HUDs used in different industries in North America, Europe, Asia-Pacific, South America and the rest of the world (ROW). The ROW region includes all countries in the Middle East and Africa.

The values presented in the forecast tables represent the sales (in millions of dollars) of HUDs in end-use product markets. All growth rates mentioned in the tables and the text are based on the compound annual growth rate (CAGR) from 2017 through 2022. Estimated values are based on manufacturers' total revenues.

The market is categorized by HUD component, application and regional market. The estimated values have been derived from the total revenues of the manufacturers.

The report also has a detailed analysis of the major HUD vendors as well as corporate profiles.

Projected and forecasted revenue values are in constant U.S. dollars, unadjusted for inflation.

## **Small Cell Power Amplifier Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast 2017 - 2025**

Published by Transparency Market Research

Pub. Date 2017/10/03

Price

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[www.giiresearch.com/ce/428072](http://www.giiresearch.com/ce/428072)

This report covers the analysis and forecast of the small cell power amplifier market on a global and regional level. The study provides historic data of 2016 along with forecast for the period between 2017 and 2025 based on revenue (US\$ Mn).

The study provides a decisive view of the small cell power amplifier market by segmenting it based on end users industry, gain in amplifier and regional demand. End users industry segments have been analyzed based on current trends and future potential. The market has been estimated from 2017 to 2025 in terms of revenue (US\$ Mn). Regional segmentation includes the current and forecast demand for North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. These have been further sub-segmented into countries and regions with relevance to the market. The segmentation also includes demand for individual applications in all regions.

*Global Small Cell Power Amplifier Market: Drivers and Restraints*

The study covers the drivers and restraints governing the dynamics of the market along with their impact on demand during the forecast period. Additionally, the report includes potential opportunities in the small cell power amplifier market on the global and regional level.



**TVS Diodes: World Markets, Technologies & Opportunities: 2017-2022**

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Pub. Date 2017/10/02

Price

USD 2750 PDF by E-mail (Single User License)

[www.giiresearch.com/ce/561524](http://www.giiresearch.com/ce/561524)

This new market research study on the global market for silicon based circuit protection components, with emphasis upon zener diodes, silicon avalanche diodes and thyristors, collectively described as "TVS Diodes" or Transient Voltage Surge Diodes. The global market analysis discusses the worldwide value and volume of consumption of TVS Diodes for FY 2017, with 2018 market estimates and 2022 forecasts for consumption. This is the 10th edition of this report and it contains historical data from previous studies showing clear market growth and direction based upon consumption by end-use market segment, key product market, and world region. The study also offers granular data on competition by each product market (zener, SAD and thyristor), and shows how the large number of vendors compete by TVS diode type, end-market and world region and shows how circuit protection is following the major mega-trends laid out by major semiconductor manufacturers such as STMicroelectronics, Toshiba Semiconductor, Rohm Company Limited, Texas Instruments, NXP-Qualcomm, ONB Semiconductor and Infineon, but with the focused vendors who concentrate in silicon based circuit protection as a targeted end-market, such as STMicroelectronics, Littelfuse, Vishay-GSI, and Semtech.

**Asian Semiconductor Equipment Suppliers: Markets, Market Shares, Market Forecasts**

Published by Information Network

Pub. Date 2017/10/01

Price

USD 2495 PDF by E-mail ~

USD 2595 PDF by E-mail & Hard Copy

[www.giiresearch.com/ce/344806](http://www.giiresearch.com/ce/344806)

This report profiles the top 29 Asian (Japan, Korea, Taiwan) Companies making semiconductor process equipment. The report analyzes market shares for 29 equipment sectors, which includes Asian and Non-Asian manufacturers. Market forecasts to 2018 are presented for all 29 equipment sectors.

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Chapter 1: Introduction

Chapter 2: Asian Semiconductor Equipment Suppliers - Profiles

Chapter 3: Market Business Sectors Shares and Forecast

Chapter 4: Semiconductor Industry Driving Forces

## **Solid-state Drives (SSD) Technology: Global Market Analysis**

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[www.giiresearch.com/ce/557400](http://www.giiresearch.com/ce/557400)

The global market for solid-state drives (SSD) was valued at \$23.3 billion in 2016. This market will grow from \$26.8 billion in 2017 to \$52.5 billion by 2022 with a compound annual growth rate (CAGR) of 14.4% for the period of 2017-2022.

Report Includes:

- An analysis of the global market for solid-state drives (SSD) technology
- Analyses of global market trends, with data from 2016, estimates for 2017, and projections of compound annual growth rates (CAGRs) through 2022
- Segmentation of the market on the basis of application, end user, capacity type, interface type, and region
- Evolution of the different types of SSD technology over the forecast period
- A look at the benefits of different memory technologies and their comparisons with SSD technology
- Overview of the market drivers, restraints, and trends
- Profiles of companies related to the industry

## **Non-Volatile Dual In-Line Memory Module (NVDIMM) - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

Pub. Date 2017/10/01

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[www.giiresearch.com/ce/573054](http://www.giiresearch.com/ce/573054)

According to Statistics MRC, the Global NVDIMM Market is growing at a CAGR of 45.6% during the forecast period. The global non-volatile dual in-line memory module market is fueled by technological innovations. With the explosion of IoT and IoT-based products, memory devices are quickly gaining importance. Advanced capabilities offered by NVDIMMs in requisites of performance, rising demand for NVDIMMs from data centers and enterprise storage applications has propelled the demand for NVDIMM technology-based devices. Huge cost, dearth of awareness regarding the advantages offered by the technology, and relatively less storage capacity are some of the major factors hampering the market.

The usage of NVDIMMs prevents the requirement for batteries by contributing efficient ultra-capacitors. As technology is still in the budding stage of development, it is comparatively costly. With the arrival of NVDIMM technology and allied memory devices, several well known DRAM manufacturers have started focussing their interest towards advanced non-volatile memory technologies. For example, HP in recent times (March 2016) launched its line of NVDIMMs non-volatile memory products under persistent memory products to be used with storage servers. Likewise, other companies including Viking Technologies, Netlist, AgigA, and Smart Modular have joined the bandwagon.

**Microdisplay - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

Pub. Date 2017/10/01

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[www.giiresearch.com/ce/573072](http://www.giiresearch.com/ce/573072)

According to Statistics MRC, the Global Microdisplay market is expected to grow from \$1.12 billion in 2016 to reach \$4.56 billion by 2023 with a CAGR of 22.2%. Growing microdisplays applications and increasing acceptance of portable devices like HUDs and HMDs are some of the factors propelling the market. Adding to this, developing microdisplay technologies, rising demand for high-resolution microdisplays are some key opportunities boosting the market growth. On the contrary, less picture quality, high cost and poor performance at high temperature are some major restraints hampering the market.

By application, industrial and enterprise application is expected to grow at a higher CAGR during the forecast period owing to the growing acceptance of AR glasses for on-the-job training to field workers, field repair services, warehouse management, designing prototype, maintenance and inspection, transportation & freight loading and operations & assembly.

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**Niche Markets and Strategies for Small/Mid-size Semiconductor Equipment Companies**

Published by Information Network

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Price

USD 2495 PDF by E-mail ~

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[www.giiresearch.com/ce/122068](http://www.giiresearch.com/ce/122068)

In this report we identify and forecast areas of semiconductor-related technologies where a small or mid-sized company can compete. These high-tech applications segmented as those are fabricated on 300mm wafers and those built on non-300mm wafers.

The small business even with their limited resources can better serve these market segments by offering customized offerings, because the products of the big business will often be too generic to suit the needs of a niche market audience.

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## **Military AR Headgear - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

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According to Statistics MRC, the Global Military Augmented Reality (AR) Headgear market is expected to grow with a CAGR of 12.0% during the forecast period. Pricey real-time military training and advancement of low-cost & lightweight AR headset are some factors favoring the market growth. Adding to this, the growing concern of militaries to set up the soldiers with modern smart devices will indirectly tender to the market growth. On the other side, an issue with AR headgears battery is the dominant restraint hindering the market growth because the performance and working of AR headgear deeply build upon the battery.

As of now, most VR/AR headgears weigh generally between four to six ounces. Industries of AR headgears are specifically concentrating to cut down the difficulties caused to the facial muscles in humans. Getting up side effects induced by VR/AR headsets have headed to the expansion and development of headgears. On geography basis, North America is expected to grab the largest share in global market. Moreover, U.S. is appearing as the prominent revenue generator to the market globally. It is likely to keep its commanding position during the forecast period.

## **Magnets and Magnet Materials: Global Markets**

Published by BCC Research

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[www.giiresearch.com/ce/557715](http://www.giiresearch.com/ce/557715)

The scope of this report is broad and covers two types of magnets used globally: soft magnets and permanent magnets. They have been classified in terms of their magnetic properties and their uses.

There are four types of permanent magnets based on the magnetic materials used for production: alnico, neodymium, samarium-cobalt and ferrite. Each of these is further divided on the basis of production processes, which primarily are termed sintering and bonding. The major applications of permanent magnets are in electric motors; generators; medical devices; sonic equipment, magnetic sensors and transducers; and consumer electronics. The market for each type of permanent magnet in these applications and the market for each type of permanent magnet by region is also covered in this report. Additional breakdowns on the basis of global consumption in each end-user industry, which includes automotive, industrial, medical and home appliances, are also covered. The revenue forecasts from 2017 to 2022 are explained for each type of permanent magnet by production process, application and region.

## **Convergence of Semiconductors and Smart Technology - A Market Analysis**

Published by Information Network

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Price

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[www.giiresearch.com/ce/326279](http://www.giiresearch.com/ce/326279)

Microcontrollers (MCUs) used in Smart Cities, Smart Homes, Smart Industry, Smart Health, and Smart Transport (a subset of the Internet of Things (IoT)), represented just 10% of the overall MCU market in 2014. But in 2020, \$10 billion in MCUs, representing 40% of the total market, will be used in these applications.

MCUs provide local processing capability for the "real-time" embedded processing of most Smart Technology applications. Since utilization of MCUs in the various Smart Device applications vary significantly, a scalable family of devices from a manufacturer will be required, although 8-bit MCUs will predominate.

The MCU is part of a sensor network that is capable of performing some processing, gathering sensory information and communicating with other connected nodes in the network along with a transceiver and one or more sensors. These semiconductor devices are also analyzed in the report in terms of revenue and shipments for the period 2014 to 2020.

## **Intel Versus ARM in Mobile Devices and Netbooks/Smartbooks: Insight Into Critical Issues and Market Analysis**

Published by Information Network

Pub. Date 2017/10/01

Price

USD 2495 PDF by E-mail ~

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[www.giiresearch.com/ce/338535](http://www.giiresearch.com/ce/338535)

Currently ARM Holdings dominates the mobile Internet device (MID) market and Intel dominates the netbook market. Both companies are entering the other's market arena, which will soon affect the market for netbooks and MID, which are analyzed in this report.

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Chapter 1 Introduction

Chapter 2 Mobile Device Market

Chapter 3 Mobile Computing

Chapter 4 ARM Holdings

Chapter 5 Intel

Chapter 6 Other Netbook CPUs

Appendix

**WEARABLES - ELECTRONICS AND SEMICONDUCTOR MARKETS**

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*Beyond the fitness/health niches, all the general purpose wearables today are really a consumer "solution" that don't add much convenience to our lives - but still incur considerable cost and inconvenience of their own. That will change soon. The healthcare industry is one of the biggest opportunities for wearables, which will be used to provide data management and display systems, enabling doctors to, handle the flood of electronic health data and access it when they need it -- while examining a patient.*

*This report analyzes the wearable industry and markets for the two wearable camps described above. Forecasts are also presented for semiconductor content and markets for MEMS devices, sensors, CPUs and low-power MPUs, GPS, and connectivity chips.*

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**Intelligent Power Module (IPM) - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

Pub. Date 2017/10/01

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*According to Statistics MRC, the Global Intelligent Power Module (IPM) Market accounted for \$1.44 billion in 2016 and is expected to reach \$2.81 billion by 2023 growing at a CAGR of 9.9% during the forecast period. Due to growing environmental concerns, electric vehicles are gaining pace, which uses IPMs extensively. Technological advancements in IPM models with improved features assist in strong competition among market players, which in turn provides the stage for R&D opportunities. The growing interest towards renewable power resources like solar and wind energy, which widely use IPMs in their power generation units are also fueling the market. However, technical issues due to power modules with SiC-bases may hinder the market growth.*

*IPMs offer design engineers an integrated compact solution to solve their challenges coupled with energy efficiency, particularly in consumer electronics segment. Hence, IPMs are observed to have more penetration in the segment. The growth of the renewable energy segment and electric vehicle market is also anticipated to promote the growth of IPM market. Moreover, the market is anticipated to experience an increased used of SiC-based IPMs with increased current ratings and switching frequencies along with a move towards digital monitoring and control of the devices.*

## **Rugged Display - Global Market Outlook (2017-2023)**

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According to Statistics MRC, the Global Rugged Display Market accounted for \$6.58 billion in 2016 and is expected to reach \$10.31 billion by 2023 growing at a CAGR of 6.6% during the forecast period. Some of the factors such as growing trend of digital transformation, technological transfer in display technology, development of ruggedized display devices with high specifications, and the growing demand for HMI and IoT in several industries are favouring the market growth. The usage of consumer-grade display devices in industrial applications is anticipated to hamper the market.

The rugged displays are manufactured in order to meet the needs of several industries including industrial, commercial, defense and others. The newest rugged displays are generally used for military display as these display covers huge display sizes. The latest technologies are designed to withstand tough condition. For instance, in 2015, General Micro Systems Inc. (U.S.) has introduced Rugged View smart displays that cover large display. It offers high level of ruggedness, ultra-dense, super-rugged smart display, and high performance at a very low cost.

## **Satellite Antenna - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

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According to Statistics MRC, the Global Satellite Antenna market is expected to grow from \$1.90 billion in 2016 to reach \$3.03 billion by 2023 with a CAGR of 9.8%. Growing number of space exploration missions, cost-effective satellite launch operations, rising demand for satellite aided warfare and improved deployment of small satellites are the major factors driving the market. On the other side, having problems with poor transmission of signals, scarcities of qualified workforce and issues with the availability of radio spectrum are the factors hampering the market growth.

By platform, the land segment is estimated to hold the highest CAGR during the forecast period due to huge investments flow into R&D activities, like observation of earth, navigation and telecommunications. Also, increasing demand for TV & radio broadcast, weather forecast applications and noise free telephone networks are some factors driving the market. Adding to this, high-throughput satellite communication services, commercial satellite imagery based services, SatCom in commercial aviation usage and augmented satellite based navigation are some of the crucial reasons expected to drive the market.