



IHS Markit™



NAVIGATION  
VERSION

TECHNOLOGY

# Semiconductors

Every facet of the semiconductor industry analyzed in detail, from raw materials and wafer fabrication through forecasts of end market consumption.



# Research Type Description

## **INTELLIGENCE SERVICES**

Real-time access to continually updated market data and forecasts, analyst insights, topical research reports and analyst presentations.

## **MARKET TRACKERS**

Regular periodic analysis and forecasts designed to provide timely visibility into relevant market and technology trends.

## **REPORTS**

Topical reports addressing key focus areas with in-depth analysis on market and technology trends.

## **CUSTOM & CONSULTING**

Meaningful analysis and action-oriented recommendations for custom cases and consulting, building on extensive IHS data and recognized industry experience.

# Memory & Storage

Significant changes have swept the memory business owing to industry consolidation and capacity realignment, leading to a more stable supplier landscape. But manufacturers are seeking other opportunities for future growth in light of a maturing mobile market. New areas of expansion include automotive connectivity and smart devices that require valuable memory to process and store data.

Get a comprehensive look at the DRAM and flash markets, including supply and demand ramifications, with our in-depth research that includes up-to-date forecasting for units, average selling prices and revenues.



# Memory & Storage

## **DRAM MEMORY INTELLIGENCE SERVICE**

Strategic insights and analysis on the volatile DRAM market, covering key trends, technologies, leading applications and supply-and-demand ramifications. Real-time forecasts for units, average selling prices and revenues are detailed by application market and technology.

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## **MOBILE AND EMBEDDED MEMORY INTELLIGENCE SERVICE**

Comprehensive coverage of the NOR and embedded NAND flash markets. Timely market briefs present expert insights on the impact of industry events and trends, while also providing supplier performance as well product and usage outlook for both the short and long term.

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## **NAND MEMORY INTELLIGENCE SERVICE**

Detailed look at the data flash (NAND) memory market, technologies, applications, supply-and-demand dynamics and device pricing by density. Timely market briefs present expert insights on the impact of industry events and trends.

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## **SSD AND HDD STORAGE INTELLIGENCE SERVICE**

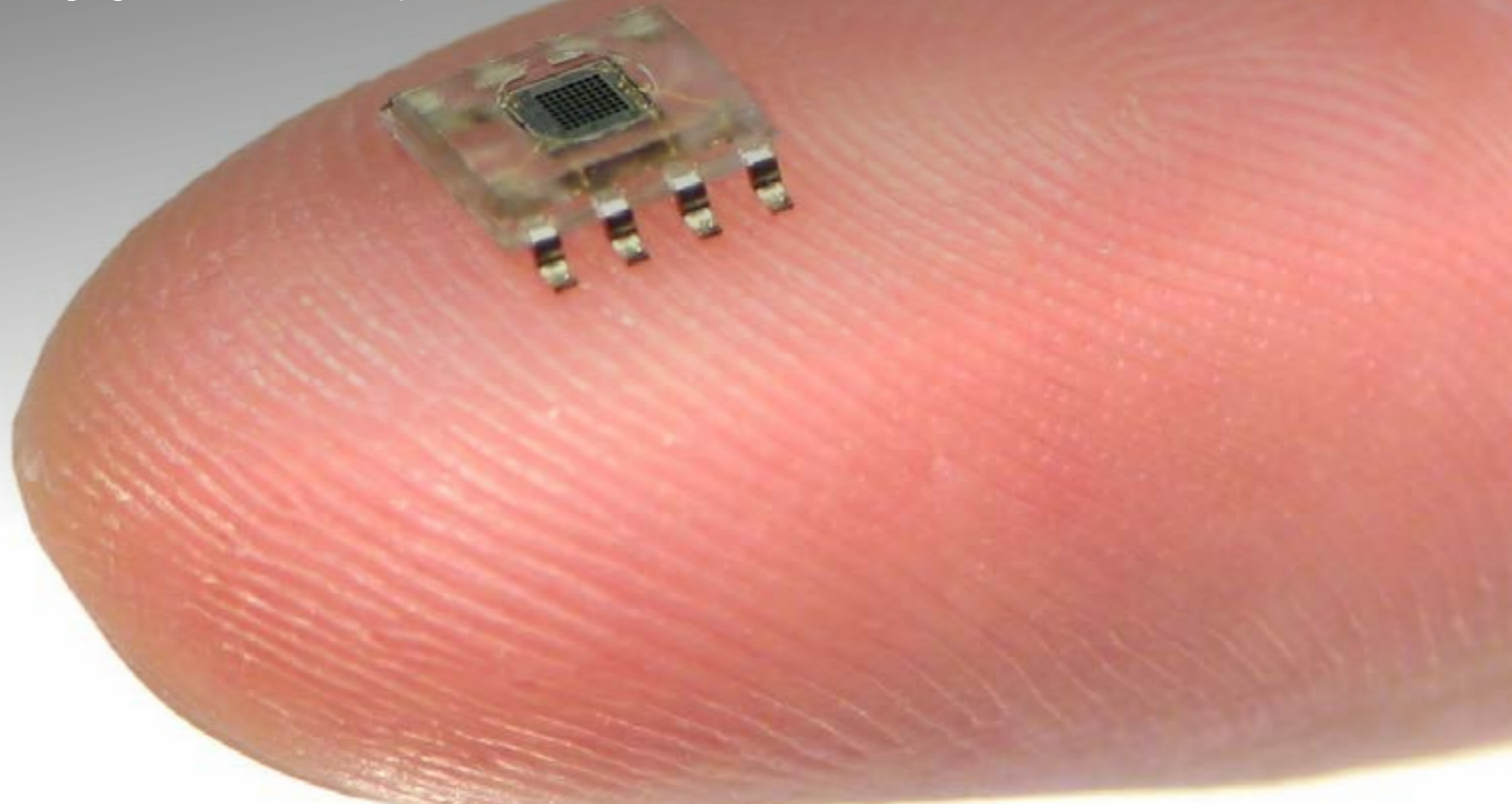
In-depth tracking of the storage market for both component vendors and users of storage devices, examining significant trends and technologies impacting the industry.

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# MEMS & Sensors

MEMS remains a bright spot in the semiconductor world, expanding faster than the overall chip industry. Consumer and mobile applications continue to be the leading MEMS segments despite saturation of the handset and tablet markets. Even so, other areas are emerging as the next major drivers of MEMS market growth, such as the IoT impacting the industrial space, as well as mandates on safety sensors attaining full implementation in automotive.

Follow both leading and potential high-value future products for semiconductors—including opportunities for the MEM business in its automotive, consumer electronics, mobile, medical and industrial segments—with our wide-ranging research and analysis.



# MEMS & Sensors

## **AUTOMOTIVE SENSORS INTELLIGENCE SERVICE**

Substantive analysis of sensor technology used in the automotive industry. Over 120 applications are addressed by technology, measurement type and insertion point. Coverage also includes detailed reporting on the supply chain for suppliers as well as Tier 2 and Tier 1 levels.

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## **MEMS & SENSORS FOR CONSUMER & MOBILE INTELLIGENCE SERVICE**

Critical research on MEMS sensors used in smartphones, wearables and consumer electronics. Coverage includes shipment and revenue forecasts; market share and ASP information; and industry overviews of historical performance, current profile and future outlook. Also offers detailed examination of key technologies and applications, such as light sensors, motion sensors, MEMS microphones and fingerprint sensors.

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## **MEMS & SENSORS INTELLIGENCE SERVICE**

Wide-ranging examination of the MEMS and sensors market, including analysis of leading and potential applications using the technology. Coverage includes detailed shipment and revenue forecasts, market share and ASP for 27 device categories across 8 applications, along with supplier competitive analysis. Also delivers in-depth reports on MEMS and sensors for IoT, as well as on light sensor and fingerprint sensor technologies.

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## **MAGNETIC SENSORS REPORT**

In-depth examination of the various semiconductor magnetic sensors including Hall, GMR, AMR, and emerging technologies such as TMR and MEMS. The annual report addresses key opportunities, disruptive forces, technology battlegrounds, supply chain and market information.

*Coming Soon*





# Semiconductor Components

With the semiconductor market highly dependent on consumer purchases, a contracting global economy resulted in negative growth for semiconductor sales the past several years, despite strong IC revenue growth from industrial electronics and automotive applications.

Gain insight into all aspects of semiconductor technology with our extensive research categorized by application market, geographical region and semiconductor device for key verticals. Coverage includes MEMS, memory, LED, power management and more.

# Semiconductor Components

## **AUTOMOTIVE SEMICONDUCTOR INTELLIGENCE SERVICE**

Complete examination of the semiconductor market for automotive electronics, including shipments, revenues and ASP forecasts of over 300 key semiconductor device categories, along with competitive analysis of top suppliers and purchasers. Also includes a 10-year automotive electronics roadmap.

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## **POWER SEMICONDUCTOR INTELLIGENCE SERVICE**

Comprehensive coverage combining an industry-leading market tracker with targeted supplier analysis together with in-depth topical reports on key focus areas, including silicon carbide (SiC) and gallium nitride (GaN) power semiconductors as well as green energy power management.

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## **LED INTELLIGENCE SERVICE**

Insightful research on the LED value chain with timely information on relevant suppliers and manufacturers, analysis of established as well as emerging LED applications and technologies, and detailed competitor market share data.

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## **MOBILE DEVICE ELECTRONICS INTELLIGENCE SERVICE**

Mobile Device Electronics Intelligence quantifies the market for all semiconductor and cellular technologies driven by the mobile device industry spanning devices to infrastructure. It includes detail on the available market by device shipment volume and revenues as well as semiconductor device type (i.e. logic ASSP/ASIC, memory, analog ASSP/ASIC, etc) consumed by each segment of the total wireless industry.

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## **SMARTPHONE ELECTRONICS DESIGN INTELLIGENCE SERVICE**

As the global handset market increasingly becomes dominated by smartphones, market dynamics are driving divergent requirements across multiple tiers of devices. Smartphone Electronics Design Intelligence captures market drivers on both a global as well as OEM level enabling rapid analysis and implementation of strategic and tactical initiatives.

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# Semiconductor Components

## MICROCONTROLLER MARKET TRACKER

Essential information of the entire microcontroller ecosystem, including historic as well as forecast revenue and shipment data, ASP, top market divisions, bit-class divisions and competitive landscape by market. Also includes detailed regional analysis by market and bit class; and of various MCU configurations spanning over 100 applications.

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## PROCESSOR FOR NETWORK INFRASTRUCTURE MARKET TRACKER

Unprecedented coverage of high-performance processors in network infrastructure, including historic as well as forecast revenue and shipment data categorized by processor class and application market. Also supplies market share data of leading processor suppliers by core architecture.

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## SEMICONDUCTORS IN THE IOT REPORT

A one-of-a-kind report on the impact of IoT on the semiconductor industry. This first report edition examines the applications that hold the most opportunity for each type of semiconductor.

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# Semiconductor Manufacturing

Semiconductor demand is highly reliant on global economic factors. But traditional demand drivers are declining, while propellers for next-generation demand remain many years away from positively impacting chip manufacturing. Yet innovations in every technology sector are setting the stage for even more change to come.

Gain access to detailed information on the making of semiconductors by both pure-play foundries and IDMs with our semiconductor manufacturing market research. This service tracks changes in semiconductor equipment and chip technology, while offering important perspectives on strategies and trends to empower companies in key manufacturing resource-planning decisions.

# Semiconductor Manufacturing

## GLOBAL MANUFACTURING MARKET TRACKER

Significant coverage of key technology and manufacturing trends, offering valuable insights to chart long-term strategic business strategies. Also includes analysis on important industry indicators, such as R&D, capital expenditures and inventory—useful for early warnings on potential long-term issues.

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## PURE PLAY FOUNDRY MARKET TRACKER

Timely information on strategies and partnerships of industry key players, and insightful analysis for manufacturers to manage their way through to the future.

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## SEMICONDUCTOR SILICON DEMAND FORECAST TOOL

Easy-to-use database tool with overall view of silicon demand. Categorized by technology for areas such as memory, logic, analog, discrete and microcomponents; as well as by wafer size, including 4-inch, 5-inch, 6-inch, 8-inch and 300mm.

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# Semiconductor Market

Consolidation has steadily increased within the global chip industry since the 2008 economic downturn. Given a highly commoditizing space, hard-pressed semiconductor firms are finding it even more critical to create value and capture the right markets.

Track every facet of the worldwide chip industry with our comprehensive competitive analysis on leading market suppliers along with accurate application equipment and device forecasts categorized by region, end-equipment markets and semiconductor content.



# Semiconductor Market

## **SEMICONDUCTOR APPLICATION MARKET FORECAST (AMFT) INTELLIGENCE SERVICE**

Comprehensive semiconductor and equipment forecast as well as analysis categorized by geographical region and key vertical markets. Data captures revenue consumption and shipment forecast for 52 semiconductor segments.

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## **SEMICONDUCTOR COMPETITIVE LANDSCAPE (CLT) INTELLIGENCE SERVICE**

Competitive analysis of the worldwide semiconductor market categorized by company, product category and region. More than 130 semiconductor devices and subdevices as well as over 300 companies are ranked by revenue for each application market. Also supplies financial profit data of leading suppliers and information on major M&A activities.

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## **WIRELESS SEMICONDUCTOR COMPETITIVE INTELLIGENCE SERVICE**

Comprehensive semiconductor and equipment forecast as well as analysis categorized by geographical region and key vertical markets. Data captures revenue consumption and shipment forecast for 52 semiconductor segments.

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## **DESIGN ACTIVITY TOOL**

The only research available that examines system design activities of nearly 200 of the world's leading electronic OEMs at the regional and country level. Also includes vital analysis highlighting key trends in OEM design activity. Excel databases provide the value of design influence on purchasing decisions attributable to a country or region, as well as important details into over 4,000 R&D locations around the world.

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## **OEM SEMICONDUCTOR SPEND TRACKER**

Complete and detailed analysis of over 200 electronic companies in their semiconductor procurement habits. Also provides in-depth data highlighting key trends in OEM semiconductor procurement and analysis categorized by company, region, application, device, point of consumption and more.

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# Semiconductor Market

## **INDUSTRIAL SEMICONDUCTOR INTELLIGENCE SERVICE**

Complete research on the semiconductor market for industrial electronics, including competitive analysis on top suppliers and purchasers. Also includes in-depth analysis of key industrial products categorized by revenue, unit, ASP forecast and typical semiconductor BOM.

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## **HIGH PERFORMANCE WIRELESS (FORMERLY CMIT) INTELLIGENCE SERVICE**

Detailed look into connectivity technologies including Wi-Fi, Bluetooth, NFC, FM and Ethernet. The expanding world of connected devices is more diverse as original equipment manufacturers (OEMs) integrate multiple connectivity technologies in a widening range of consumer and enterprise devices alike.

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## **LOW POWER WIRELESS INTELLIGENCE SERVICE**

Close tracking of the key metrics for relevant players in low-power wireless systems and technologies. Individual technologies vary in their adoption by application area, with some being more suited to specific applications than others. The service explores the market for a range of key low-power wireless technologies and their adoption in each application area.

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## **CHINA SEMICONDUCTOR INTELLIGENCE SERVICE**

Comprehensive tracking of China's electronic and semiconductor industries, including cogent analysis of the supply chain, competitive landscape, market opportunities and challenges. Coverage includes key application markets in China, such as automotive, industrial and mobile devices.

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# Contact Us

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## ABOUT IHS MARKIT

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 80 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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