



IHS Markit™

TECHNOLOGY, MEDIA & TELECOM

Automotive Technology

Insights and analysis, from automotive semiconductors to ground-breaking vehicle technologies.



NAVIGATION
VERSION



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 Markit data and recognized industry experience.



Electronic Systems & Semiconductors

Rising demand for infotainment, connectivity and safety in vehicles has boosted the adoption of automotive electronics during the last decade. With comprehensive intelligence services and timely market reports, IHS Markit provides detailed coverage of the automotive electronics supply chain, including technologies and players, market opportunities, competitive landscape, and supplier as well as customer engagement strategies in this growing market. Research covers the semiconductors, sensors and display panels that form part of the automotive electronics systems value chain.

Electronic Systems & Semiconductors

AUTOMOTIVE OEM & TIER 1 ELECTRONICS INTELLIGENCE SERVICE

Continually updated coverage of the global automotive electronics market, including intensive research on the semiconductor and sensor technologies used in automotive applications. Plus: competitive analysis of the top semiconductor and Tier 1 suppliers, along with a roadmap of the electronic systems and architectures to be used in vehicles in the next 10 years.

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AUTOMOTIVE SENSORS INTELLIGENCE SERVICE

Substantive research on 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 1 and Tier 2 levels.

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AUTOMOTIVE SEMICONDUCTOR INTELLIGENCE SERVICE

Complete examination of the semiconductor market for automotive electronics, including forecasts for shipments, revenues and average selling prices (ASPs) of more than 300 key semiconductor device categories. Also includes competitive analysis of top suppliers and purchasers, as well as a 10-year automotive electronics roadmap.

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AUTOMOTIVE DISPLAY MARKET TRACKER

Quarterly data and analysis of the global market for automotive displays, categorized by unit, area, value and ASP, with details on applications, technologies, display sizes and pixel formats. Also provides key market trends and insights into the automotive supply chain, including Tier 1 display system integrators.

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Electronic Systems & Semiconductors

AUTOMOTIVE TOUCH PANEL MARKET REPORT

Annual comprehensive look into the technologies and trends that influence the adoption of touch panels in automobile designs worldwide. Plus: a special analysis of the Japanese market of the current touch technologies, alongside those considered for future automotive applications.

Also includes market historical and forecast analysis categorized by technology, sensor type, size, maker and ASP.

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ELECTRIC MOTORS IN AUTOMOTIVE APPLICATIONS REPORT

A complete examination of the world market for electric motors in automotive applications. The annual report provides a current snapshot of the market as well as visibility into the factors that are projected to drive or hinder future growth.

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AUTOMOTIVE ELECTRONICS ROADMAP REPORT

Essential analysis on the ten-year outlook of changes in electronics systems and architectures in vehicles impacted by the requirements and challenges in implementing the car of the future. Includes ECU architecture and networking trends by domain and coverage of new systems and features enabled by semiconductors and sensors.

Coming Soon

Cost Management

In a highly competitive environment, market share may no longer be the best indicator of future success. Companies must also keep in mind the cost structure of products to stay profitable and maintain competitive advantage. Alternatively, bringing a new product to market requires complete and factual benchmark data essential to product viability. IHS Markit offers powerful tools to help companies in automotive-related industries to track and measure the BOM electronics costs of today's vehicles.



Cost Management

TEARDOWN - AUTOMOTIVE INTELLIGENCE SERVICE

Detailed breakdown of all electronic, electro-mechanical and mechanical components of today's cars. Each analysis includes annotated digital photos of all subassemblies, including printed circuit boards with manufacturers' names and part numbers, highlighting component type and function. Also offers a complete cost list of all components, as well as a summary cost analysis of the top cost drivers by assembly, function and component type. The service provides all historical automotive teardowns and a minimum teardown of 12 devices per year.

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DISPLAY COST MODEL

Broad coverage of panel cost structures, forecasts and the profitability of panels used in automotive displays. The simulation-enabled parametric cost model offers users flexibility to generate different forecasts based on their own data inputs and assumptions. Parameters such as component costs, panel prices, panel yield and fab utilization can also be changed to fine-tune costs, reflecting actual panel conditions.

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AUTOMOTIVE ELECTRONICS PROCUREMENT INTELLIGENCE SERVICE

Close tracking of automotive electronics from the procurement side, including component pricing, supplier market share and purchasing power of Tier 1 companies. Also provides price forecasts for more than 300 key electronic integrated circuits and sensors, as well as detailed analysis of the supplier landscape and Tier 1 spending habits by 5 automotive domains and 36 electronic systems.

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Connected Car

IHS Markit is the world's leading source of research and analysis in the technology, media and telecommunications industries—an exceptional vantage point for wide-ranging coverage and deep, insightful examination of the Connected Car ecosystem. From the enabling hardware in the car to the services being used and to the key stakeholders involved in the space, IHS Markit is uniquely positioned to identify optimal connection points as well as the greatest risks and opportunities for automotive companies in this new and exciting era of the Connected Car.



Connected Car - Enabling Hardware

SMARTPHONE INTELLIGENCE SERVICE

Essential analysis for the smartphone market, including historical data and market forecasts. Also offers granular data on smartphone shipments by original equipment manufacturer (OEM) and global handset shipments by model, as well on the active installed base of smartphones categorized by feature, model and component vendor.

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WEARABLE TECHNOLOGY INTELLIGENCE SERVICE

Extensive insights into the wearables market, leveraging expert IHS research in consumer electronics, critical communications, industrial automation, medical devices, power, and sports and fitness.

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CELLULAR IOT (FORMERLY M2M) INTELLIGENCE SERVICE

A complete source for M2M market intelligence, including up-to-date forecasts and reports on major market topics and trends. Insights are guided by IHS end-to-end mobile perspectives across the entire telecoms market.

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IOT DEVICES & CONNECTIVITY INTELLIGENCE SERVICE

The lone source for comprehensive coverage of the connectivity technologies used for IoT, covering more than 25 connectivity technologies in 34 IoT application segments.

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Connected Car - Services

MOBILE MEDIA INTELLIGENCE SERVICE

“Must-have” analysis of the business models transforming the digital world, including apps, app stores, messaging, games, music and video. Also provides the value-added service strategies of key players, such as operators and smartphone makers, over-the-top start-ups and established media companies.

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ADVERTISING INTELLIGENCE SERVICE

A holistic and global view of the rapidly evolving advertising and marketing landscape. Covering over 60 countries and companies, the service offers accurate, continually updated market data, forecasts and reports for all advertising segments including TV, print, out-of-home, cinema, online and mobile.

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Connected Car - Stakeholders and Key Concerns

DATA CENTER NETWORKS INTELLIGENCE SERVICE

Extensive examination of data center network equipment used by enterprises as well as by cloud and telecom service providers. Includes data center Ethernet switches, application delivery controllers, wide area network (WAN) optimization, Ethernet switches sold in data center bundles, storage area network (SAN) equipment and converged data center network equipment.

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CLOUD ENTERPRISE SERVICES INTELLIGENCE SERVICE

Global, in-depth look into off-premises cloud services, cloud service providers and enterprises that use the cloud for IT infrastructure and applications. Covers Infrastructure as a Service (IaaS), Cloud as a Service (CaaS), Platform as a Service (PaaS) and Software as a Service (SaaS).

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CYBERSECURITY TECHNOLOGY INTELLIGENCE SERVICE

Critical research into the threat mitigation technologies used by enterprises and service providers to protect networks, data centers, the cloud, mobile devices and Internet of Things (IoT). Includes content security gateway appliances, software and SaaS, network security appliances and software, DDoS prevention appliances, cloud and customer premises equipment (CPE) managed security services and more.

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CYBERSECURITY REPORT (NORTH AMERICA & EMEA)

Deep analysis of the rapidly growing cybersecurity market from a regional and vertical market perspective. Includes a competitive environment analysis and enduser survey to provide insight to the requirements, budgeting needs and challenges of implementing cybersecurity in different vertical markets.

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IHS Markit Automotive

Complementary to automotive research by the technology, media and telecom group, the five solutions below from IHS Markit Automotive provide focused insight and analysis on gamechanging developments to help clients stay on top of the latest advances in automotive technology.

- Services, Apps and Software
- Infotainment
- Autonomous Driving
- User Interface and Experience
- E-Mobility

All five solutions are available through IHS Markit Automotive SupplierInsight, a strategy and planning solution that provides a view into current automotive trends and future demand through topical reports, industry news and analyst insight, analytics, model-level forecasts, technology fitment, and supplier relationships.

For continued analysis and commentary through reports, news, forecasts and databases on this evolving market, please visit

[IHS Markit Automotive Supplier Insight](#).

IHS Markit Automotive

SERVICES, APPS AND SOFTWARE SERVICE

Concise evaluations and forecasts of infotainment operating system (OS) platforms; apps integration via smartphones and infotainment systems; apps categories; and the latest developments on relevant players.

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INFOTAINMENT SERVICE

Insights, context, data and analytics for the rapidly growing and evolving automotive infotainment market. Covers infotainment technologies (head-unit systems, telematics, acoustics); specifications (head-unit type, storage technology, connection type and bandwidth, Wi-Fi); and other important factors (premium audio, connectivity, business models).

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USER INTERFACE AND EXPERIENCE SERVICE

Detailed research into the technologies and best practices surrounding the design and implementation of the human-machine interface (HMI), including cutting-edge displays, speech recognition, haptics, augmented reality and more. Formerly known as the HMI & Usability Portal.

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AUTONOMOUS DRIVING SERVICE

Comprehensive and continually updated reportage on advanced driver-assist systems (ADAS) and their evolution toward automated and autonomous driving in key markets around the world. Areas include ADAS sensors (radar, camera, lidar); applications (adaptive cruise control, blind-spot detection, lane-keep assist); and vehicle-to-vehicle (V2V) new mobility technologies.

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E-MOBILITY SERVICE

Critical examination of ongoing developments in vehicle electrification and the industry's transition to electrified powertrains and associated infrastructure. Coverage includes production volumes for electric vehicles, hybrids, plug-in hybrids and fuel-cell electric cars; charging infrastructure and wireless power; technologies; vehicle specifications and supplier data; and legislation and incentives. Formerly known as the Hybrid EV Portal.

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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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