

Semiconductors in the Internet of Things – 2017

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ACTUALS AND FORECAST

Frequency, Time Period

- 2014 & 2015 base data
- 5-yr annual forecast (2016 - 2020)
- Extended 10-yr snapshot (2025)

Measures

- Device unit shipments (millions)
- Semiconductor unit shipments (millions)
- Semiconductor revenue (\$ millions)

Semiconductor Types

- Connectivity
- Wired, WPAN, WLAN, WWAN, WMesh
- Processors
 - MPU, MCU, Application and Configurable Processors
- Sensors
 - Pressure/Flow, Environment/Health, Presence/Motion, Inertial/Vibration, Imaging, Others

Markets

- Automotive
- Communications
- Computers
- Consumer
- Industrial
- Medical
- Military & Aerospace

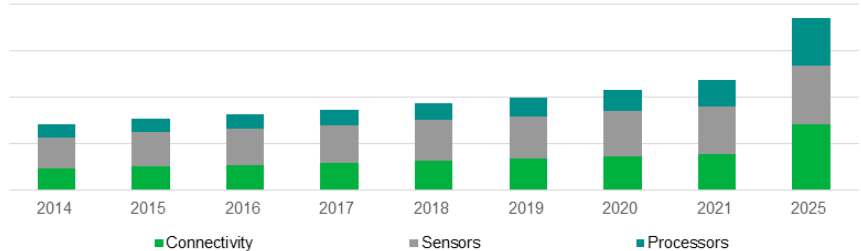
New Applications Fuel Semiconductor Growth in the IoT

The Internet of Things has long been perceived as an area of growth for the semiconductor industry, but until now, the opportunity has never been adequately quantified. What will be the impact of the IoT on the semiconductor industry? What types of semiconductors will benefit the most? What applications hold the most opportunity for each type of semiconductor? In this first edition report, IHS brings together broad electronic device coverage with deep expertise in semiconductor markets to thoroughly answer these questions for the first time.

Semiconductors in the Internet of Things will present historical data (2014 and 2015), a five-year annual forecast (2016 to 2020), and an extended ten year snapshot for 2025. The forecasts will include device unit shipments, semiconductor unit shipments, and semiconductor revenue for three major categories of semiconductors – connectivity, processors, and sensors. Each semiconductor category will be further divided into segments that are relevant to that semiconductor type. All device and semiconductor data will also be segmented by major markets – automotive, communications, computers, consumer, industrial, medical, and military & aerospace.

In addition to detailed forecast data, the report will also carefully examine each market and provide commentary and analysis on the trends, obstacles, and opportunities that are unique to each.

Semiconductors in IoT by Type (000s of ICs Shipped)



Source: IHS Markit

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Key Issues Addressed

- IoT semiconductor market size through 2025
- Key application markets by semiconductor
- Verticals with the greatest opportunity for semiconductor growth
- An examination of key challenges and opportunities driving inflection points for each market
- Market penetration

Applicable To

- Semiconductor manufacturers
- Semiconductor equipment makers
- Device OEMs
- IoT platform & service providers
- Foundries & contract manufacturers
- Investment banks, consultants, and hedge funds
- Middleware & application developers
- Connectivity IP developers

LEAD ANALYSTS

Lee Ratliff – Sr. Principal Analyst, IoT & Connectivity

Lee is responsible for covering connectivity technologies and semiconductors. He specializes in low-power wireless technologies used in the IoT. Prior to joining IHS in 2008, Lee spent 14 years in the semiconductor industry in roles ranging from hardware and software design to product marketing and account management.

Robbie Galoso – Principal Analyst, Industrial Semiconductors & Sensors

Robbie specializes in market analysis involving companies in the industrial electronics industry which includes factory automation, lighting, video surveillance, climate control, power & energy, medical, military & aerospace segments. He manages the overall data quality of its semiconductor market share databases. Robbie's research reports provide insights shaping the products and companies in the industrial semiconductors and sensors in IoT markets.

Tom Hackenberg – Principal Analyst, Embedded Processing

Tom is responsible for coverage of embedded processing markets. His broad scope of processor coverage includes microcontrollers (MCU), microprocessors (MPU), signal processors (DSP) and Logic component markets. In addition to component coverage, Tom provides a breadth of knowledge related to deeply embedded systems in markets such as automotive, industrial and telecommunications equipment. His analysis extends to processor technology trends such as embedded vision, machine to machine (M2M) communications, internet-of-things (IoT), sensor fusion, smart devices and embedded security.

Brian O'Rourke – Sr. Principal Analyst, Consumer Devices & MEMS & Sensors

Brian has responsibilities in consumer electronics and wireless technologies at IHS, including image sensors, digital imaging and mobile broadband. In addition, he follows the markets for various wired connectivity. He has 16 years of experience in high-technology market analysis and consulting, ranging up the value chain from semiconductors to devices to services.

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- Application Pivot Table
- Product Type Pivot Table

For answers to your questions and more information about this report.

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