

Embedded Internet of Things: IoT Chipsets, RTOS, Embedded Systems, and MEMS

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Abstracts

Due to many factors, chipsets designed for IoT systems have unique factors including the need for optimal energy efficiency. The network effect is clearly evident as the impact of increasingly interconnected IoT systems will cause acceleration in overall demand for chipsets due to the interdependency of platforms, gateways, and devices. RTOS is a critical component to build comprehensive embedded systems for IoT solutions for both consumer and industrial IoT (IIoT). Embedded RTOS is a key consideration to build mission critical, reliable IIoT applications across various industry verticals including industrial equipment, automotive, healthcare, telecommunications, government solutions, and more.

Conventional Embedded Systems are not competent to deliver what the IoT is expecting from an embedded device networked in IoT and it brings great challenges to develop or transform contemporary embedded system into an IoT enabled smart embedded system. MEMS are key components in a wide variety of systems, solutions and applications across virtually every industry vertical. Leading micro-electronics suppliers, such as STMicroelectronics, provide various MEMS solutions such as smart sensors and sensor hubs, UV index sensors, temperature sensors and touch sensors. High growth areas for MEMS include a few emerging high tech segments such as Virtual Reality and many IoT related areas such as Connected Vehicles, UAVs, and more.

This research evaluates the chipset marketplace, analyzes the unique needs of IoT

chipsets, and provides a market outlook and forecasts for IoT chipsets by industry vertical, region, and globally. This research also provides an in-depth assessment of the RTOS embedded IoT system market and evaluates the MEMS marketplace including ecosystem, players, products, and services. It provides detailed forecasts of MEMS by function, device, application, and industry vertical. These forecasts are global, regional, and by country. This research also provides analysis of the products that will be developed to support IoT, changes in traditional RTOS required to match performance with IoT, changes in hardware required to match needs of IoT, types of peripherals, and emerging tools to support processing of embedded systems in IoT.

Target Audience:

- Electronics manufacturers
- Wireless service providers
- IoT infrastructure providers
- Wireless device manufacturers
- Wireless infrastructure providers
- Embedded H/W, S/W, and OS providers

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