

Real Time Operating Systems (RTOS) for the Internet of Things (IoT)

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Abstracts

Overview:

A Real-time Operating Systems (RTOS) is an OS that manages hardware resources, hosts applications, and processes data on real-time basis. RTOS defines the real time task processing time, interrupt latency, and longer period reliability of both hardware and applications, especially for low powered and memory constrained devices and networks. The key difference between RTOS and a general purpose OS lies within its high degree of reliability and consistency on timing between application's task acceptance and completion.

RTOS is a critical component to build comprehensive embedded systems for Internet of Things (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.

Real Time Operating Systems (RTOS) for The Internet of Things (IoT) provides analysis of RTOS for IoT including hard vs. soft RTOS, embedded RTOS programs for rugged hardware, low power network and connectivity for RTOS, peripherals and tools to support processing of embedded systems in IoT, and leading RTOS platforms including both open source and proprietary. The report also provides forecasts for the 2016 - 2021 period for embedded RTOS revenue including rugged hardware, software, and microcontrollers. The forecasting includes a regional view for embedded RTOS revenue and the installed base of devices for the same period.

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Target Audience:

Internet of Things companies

Wireless device manufacturers

Wearable technology suppliers

Digital signal processor providers

Telephony infrastructure providers

Computer and semiconductor companies

Embedded hardware, software and OS providers

Mobile/wireless network operators and service providers

Next generation application developers and content providers

Consumer electronics merchandisers and application providers

Report Benefits:

Understand RTOS in IoT

Embedded RTOS Revenue Forecasts 2016 - 2021

Embedded RTOS Installed Device Forecast 2016 - 2021

Understand the future of embedded RTOS in Internet of Things

Identify leading embedded RTOS companies to leverage and support IoT

Understand the impact of embedded RTOS on real-time IoT and sensor

networks

Companies in Report:

AMD

ARM

Atari

Atmel

Contiki

FreeRTOS

Fujitsu

Google

Green Hill

Huawei

IBM

Intel

Linux

Mentor Graphics

Micrium

Microsoft

NEC

NXP

OpenWSN

Renesas

RIOT

Samsung

Sharp

Texas Instruments

TinyOS

Wind River

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