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Real Time Operating Systems (RTOS) for IoT: Market Analysis and Forecasts 2017 - 2022

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Abstracts

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 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.

This research provides an in-depth assessment of the RTOS embedded IoT system market including following:

Assessment of RTOS in IoT including hardware, software, and firmware

Analysis of embedded RTOS programs to support low power network connectivity

Evaluation of peripherals and tools to support processing of embedded systems in IoT

Assessment of applications and industry verticals including benefits of RTOS

over traditional OS

Analysis of market segments and sub-segments with consideration towards emerging business models

Evaluation of leading RTOS vendors, platforms, and solutions including both open source and proprietary

Forecasts included with this report address Market Segments, Sub-Segments, Application Sectors, and Business Models covering:

Global and Regional RTOS Embedded IoT System market 2017 - 2022

RTOS embedded connected IoT device shipment forecasts 2017 - 2022

RTOS embedded component shipments by MCUs, MPUs, and MEMS 2017 - 2022

Vendor market share of embedded RTOS software and RTOS embedded components

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Report Benefits:

Understand RTOS in IoT tech and solutions

Embedded RTOS Revenue Forecasts 2017 - 2022

Embedded RTOS Installed Device Forecast 2017 - 2022

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

Target Audience:

Internet of Things suppliers

Wireless device manufacturers

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

Companies in Report:

Advantech

Altera

AMD

Amperex Technology Ltd. (ATL)

ARM

Atari

Atmel Corporation

Blackberry Ltd

Blue Energy Co. Ltd.

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Broadcom Corporation

Contiki

Cypress

Emerson Network Power

ENEA

Express Logic, Inc.

FreeRTOS

Fujitsu

Google

Green Hills Software

Holtek

Huawei

IBM

Infineon Technologies

Intel

IXYS Corporation

Johnson Controls Inc.

Johnson Matthey

LG Chem

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Linux

Lynx Software Technologies

Mentor Graphics

Micrium

Microchip Technology

Microsoft

Mitsubishi Electric

National Instruments

NEC

Nuvoton

NXP Semiconductors

OAR corporation

OpenWSN

Panasonic Corp.

RadiSys

Renesas

RIOT

SAFT

Samsung

Segger Microcontroller Systems

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Sharp

SHHIC

Silicon Labs

Spansion

STMicroelectronics

Texas Instruments

TinyOS

Toshiba Corp

Unicoi Systems

Wind River

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