

Power Sources for the Internet-of-Things: Markets and Strategies

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Abstracts

NanoMarkets believes that the deployments of sensors and processors for the Internet-of-Things (IoT) are creating huge new opportunities for manufacturers of power source devices. Because of IoT, power devices such as thin-film and printed batteries, energy harvesting modules, small flexible photovoltaics panels and thermoelectric sources, which have enjoyed marginal revenues up to now, may begin generating hundreds of millions of dollars in annual revenues.

However, suppliers of IoT power sources, as well as the semiconductor industry more generally face significant uncertainties in the IoT space. Not only is future of the IoT itself unclear, but also how the IoT “power infrastructure” will shape up technologically is a great unknown.

The objective of this report is to identify where the money will be made and lost in the emergent IoT power source business. It begins with an assessment of the power requirements of the various devices that NanoMarkets believes will form the “things” in the IoT. These include sensor networks, MCUs/MPUs and tagging devices, for example. The report continues by considering how established technologies such as batteries will adapt to new IoT opportunities and whether emerging technologies such as energy harvesting and thermoelectric power sources will find their first big markets as the result of IoT.

The report explores the opportunities for all industry sectors that will be impacted by the development of new power sources for the IoT. In particular we examine how leading battery companies, chipmakers, OEMs and others are preparing for the business opportunities in the IoT power source space. The report also discusses the strategies of eight firms that NanoMarkets believes will shape the market for power sources for the

IoT over the next decade.

We believe that this report will be essential reading for business development and marketing executives in the battery, energy harvesting, RFID, sensors, photovoltaics and semiconductor industries, as well as the investment community. In addition to providing a thorough analysis of the IoT power source markets, this report also provides detailed eight-year forecasts of power sources for the IoT in both volume and value terms and with break outs by power source types.

Contents

EXECUTIVE SUMMARY

Objectives and Scope of this Report
Methodology and Information Sources
Plan of this Report
What the IoT Needs: Summary of Power Source Requirements for the IoT
Hardware/ Software Strategies for Lowering Power Consumption in the IoT
Power Sources for the IoT: A Summary of Opportunities
MPUs and MCUs
Battery Makers
Novel Energy Harvesting Devices
Novel Energy Harvesting Devices
Opportunities for Start-Ups
Eight Companies to Watch in the IoT Power Source Market
Summary of Eight-Year Forecasts of IoT Power Sources

CHAPTER ONE: INTRODUCTION

Internet of Things: Classification of Applications
Internet-of-Things: The Very Need
New Methods to Power Internet-of-Things Applications
Key Global Market for the IoT Power Source Industry
Key Drivers of IoT Power Source industry
Favorable Factors for the Industry
Key Issues Faced by the Industry
Trends in IoT Power Source industry
Potential Applications
Commercial Application Trends

CHAPTER TWO: POWER REQUIREMENTS FOR THE INTERNET-OF-THINGS

Power Requirements for Sensors in the IoT
Variations by Type of Sensor
Wireless Sensor Networking Standards: Implications for Power Sources
Power Sources Used in WSNs: Current and Future
Role of MCUs/MPUs in the IoT
Power Requirements for MCUs/MPUs in the IoT

Power Sources for MCUs/MPUs in the IoT
RFIDs and Other Tagging Devices in the IoT
RFIDs and Ambient Energy in the IoT
Key Points Made in this Chapter
Available

CHAPTER THREE: IOT POWER SOURCES: MARKETS AND EIGHT-YEAR FORECASTS

Inductive Power Sources for IOT
Current and Future Use of Inductive Power Sources in the IoT
Market Opportunities for Inductive Power Sources for IoT
Key Suppliers of Inductive Power Sources for IoT
Eight-Year Forecast of Inductive Readers and Power Sources for the IoT
Eight-Year Forecast of Inductive Readers and Power Sources for the IoT
Batteries for IoT
Thin-Film Batteries in the IoT
Printed batteries in the IoT
Do Conventional Batteries Have a Role in the IoT?
Market Opportunities for Batteries in the IoT
Key Suppliers of Batteries for the IoT
Eight-Year Forecast of Batteries for the IoT
Energy Harvesting
Overview of Energy Harvesting Power Sources
Energy Harvesting
Solar Sources: Available Materials Sets
Motion Based Energy Harvesting
Motion- and Vibration-Based Energy Harvesting
Market Opportunities for Energy Harvesting in IoT
Key Suppliers of Energy Harvesting Devices for IoT
Eight-Year Forecast of Energy Harvesting Devices for the IoT
Summary of Eight-Year Forecasts of IoT Power Sources
Key Points Made in this Chapter
Research Team

CONTACT US

LIST OF FORECAST EXHIBITS

Summary of Eight-Year Forecasts of IoT Power Sources
Inductive Power Source Market by Application
Thin-Film and Printed Batteries Market by Application
Energy Harvester Market by Application
Summary of Market Value of Power Sources for the IoT by Type
Power Requirements for Sensors in the IoT
Eight-Year Forecast of Inductive Readers and Power Sources for the IoT
Eight-Year Forecast of Batteries for the IoT
Eight-Year Forecast of Energy Harvesting Devices for the IoT

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