
Power Management for Portable Products

Why is power management important for mobile devices?

Sophisticated power management is an important requirement to increase the battery life, usability, and functionality of mobile devices. Power consumption is the rate at which energy is consumed. With the fixed energy capacity of a battery, the power consumption directly determines the lifetime of a portable device.

Are portable devices getting more power hungry?

Devices are continuously getting more power hungry, outpacing battery development. Written by leading engineers in the field, this cutting-edge resource helps you overcome this challenge, offering you an insightful overview and in-depth guide to the many varied areas of battery power management for portable devices.

What are the application areas for personal portable devices?

Another growing application area for personal portable devices is entertainment. Devices like portable media players (PMP), FM radios, MP3 players, and portable gaming devices are found in every electronics store.

What are portable gaming devices?

Portable gaming devices were pioneered by Nintendo with the Gameboy. The gaming devices evolved from simple toys into powerful computers with the progress of technology. These gaming devices turn kids into young consumers that think digitally and prepare them for the mobile device market.

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Power management for portable applications is becoming a bright spot in the semiconductor field. According to a market report published by market research company CIR, the market ...

System Power Management Power management for a portable and battery-powered product is ultimately a system level challenge. The total energy available from a battery is ...

To successfully design a portable product, power management should be one of the very first design considerations. This helps to ensure a strong foundation of power-efficient ...

ST is a leading supplier of power management and mixed-signal ICs for handheld and wearable applications, offering a wide range of products from simple power management ICs up to ...

Click to access 'Battery Power Management for Portable Devices' from TI, which discusses how to use innovative charging circuits for faster and cooler charging.

Powering portable devices is a key concern for both engineers and users. This article explores various challenges, such as battery lifespan management, energy efficiency, and handling ...

Explore the latest advances in Power Management ICs for consumer electronics, enhancing efficiency, battery life, and performance in modern devices.

Below we will interpret the current new methods of power management for portable electronic products from four levels: advanced semiconductor technology and packaging technology, ...

Power management integrated circuits (PMICs) address battery charging and provide multiple system rails in portable products. Switchmode power management enables ...

Bob Mammano Summary: While demands for portability have created great interest in battery technology, this is a field with many choices, few absolutes, continuously improving ...

TIBarsukov Battery Power Management for Portable Devices Preface xi Acknowledgments xiii Foreword xv1
Battery Chemistry Fundamentals an ...

LTC4090: USB Power Manager with 2A High Voltage Bat-Track(TM) Buck Regulator Our PowerPath products allow the load to be powered from both VIN and the battery, allowing for ...

When it comes to portable medical devices, including heart monitors, infusion pumps, and ventilators, the Battery Management System (BMS) becomes even more crucial. It has a ...

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For example, the bq24250 is a highly integrated switch-mode, single-cell Lithium-Ion (Li-Ion) battery charger and system power-path management IC targeted for space-limited, portable ...

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