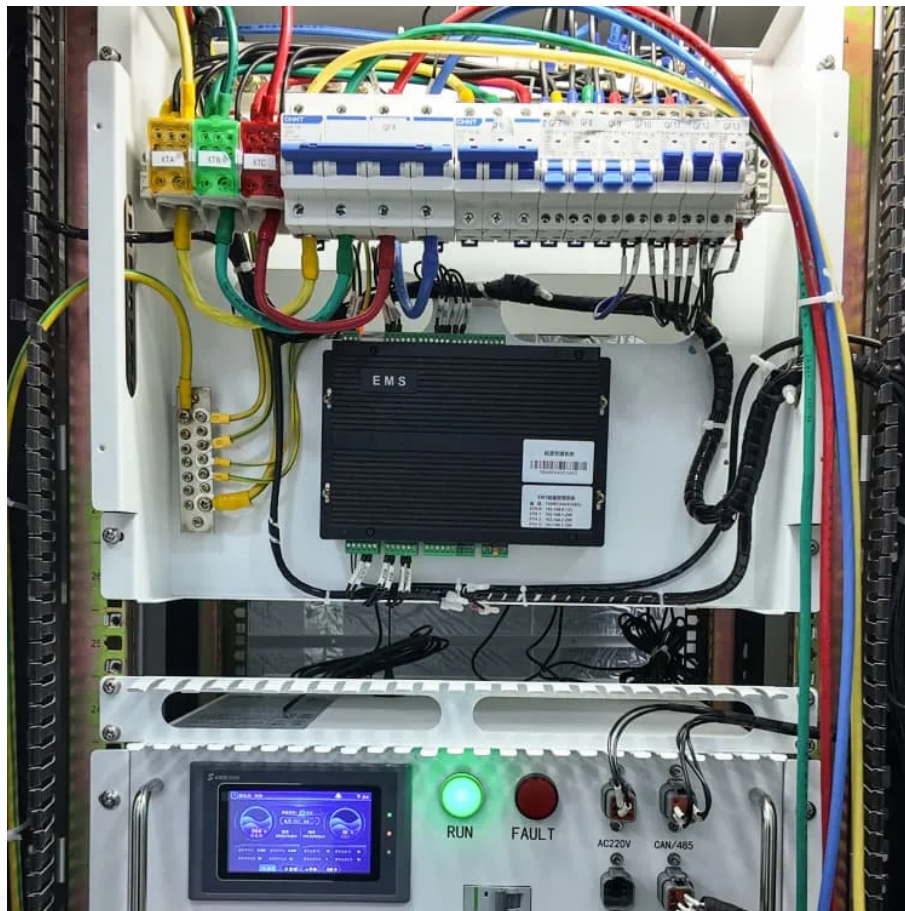


Power Management for Portable Products





Overview

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.

What are power management products?

Power management products that convert energy from vibration (piezoelectric), photovoltaic (solar), and thermal (TEC, TEG, thermopiles, thermocouples) sources provide high efficiency conversion to regulated voltages or to charge batteries and super capacitor storage elements.

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 Analog Devices Power Management ICs & power modules?

Analog Devices' power management ICs and power modules provide the foundation for powering today's and tomorrow's innovations across all markets.

Why should you choose module power products?

As a highly integrated solution with PCB Gerber files available for every device, μ Module power products address time and space constraints while delivering a high efficiency, reliable, and, with select products, a low EMI solution compliant with EN 55022 Class B standards.



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.



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Role of semiconductor devices in portable electronics power management

To address key portable system requirements such as lighter weight, reduced size and heat dissipation, semiconductor devices associated with power management functions have ...

Power Management in Portable Applications: Charging ...

Properly restoring energy using the latest battery technology for today's portable products requires careful consideration. An understanding of the charging characteristics of the battery, ...



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