



# ACT6330

Product Brief, 02-Apr-08

Advanced Information—All Information Subject to Change

## Dual PWM Step-Up DC/DCs in TQFN33

### FEATURES

- Multiple Patents Pending
- Two Integrated Regulators
  - REG1: PWM Step-Up DC/DC with OVP for WLED Bias
  - REG2: PWM Step-Up DC/DC Converter with OVP
- Independent Enable/Disable Control
- Minimal External Components
- 3x3mm, Thin-QFN (TQFN33-16) Package
  - Only 0.75mm Height
  - RoHS Compliant

### APPLICATIONS

- Portable Devices and PDAs
- MP3/MP4 Players
- Wireless Handhelds
- GPS Receivers

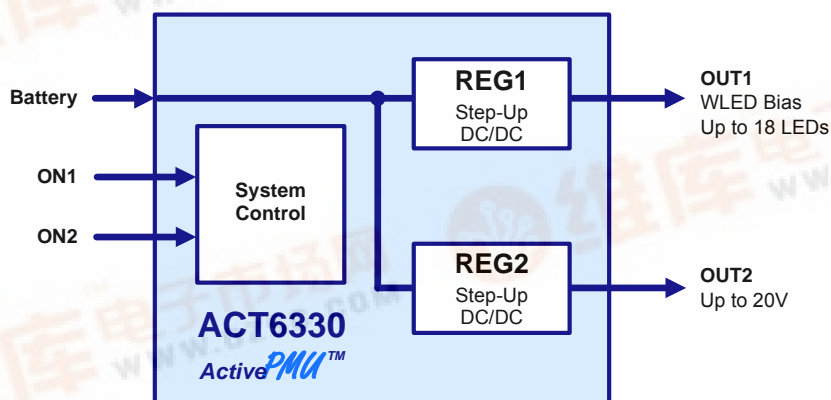
### GENERAL DESCRIPTION

The patent-pending ACT6330 integrates two step-up DC/DCs into a single, thin, space-saving package to provide a cost-effective, highly-efficient *ActivePMU™* power management solution. This device is ideal for a wide range of portable handheld equipment that can benefit from the advantages of *ActivePMU* technology but does not require a high level of integration.

REG1 and REG2 are fixed-frequency, current-mode PWM step-up DC/DC converters. REG1 is optimized for high-efficiency WLED bias applications, while together these outputs can provide a complete TFT bias and backlighting solution for portable handheld equipment.

The ACT6330 is available in a tiny 3mm x 3mm 16-pin Thin-QFN package that is just 0.75mm thin.

### SYSTEM BLOCK DIAGRAM



## ORDERING INFORMATION

PART NUMBER	PACKAGE	PINS	TEMPERATURE RANGE
ACT6330QK-T	TQFN33-16	16	-40°C to +85°C

## FUNCTIONAL BLOCK DIAGRAM

