

Dual PWM Step-Down DC/DCs in TDFN33

FEATURES

- Multiple Patents Pending
- Two Integrated Step-Down DC/DC Converters
 - REG1: 350mA
 - REG2: 550mA
- 180° Out-of-Phase Operation
 - Reduces Input Capacitor Requirements
- Fixed or Adjustable Output Voltage Options
- Independent Enable/Disable Control
- Minimal External Components
- 3x3mm, Thin-DFN (TDFN33-10) Package
 - Only 0.75mm Height
 - RoHS-Compliant

APPLICATIONS

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

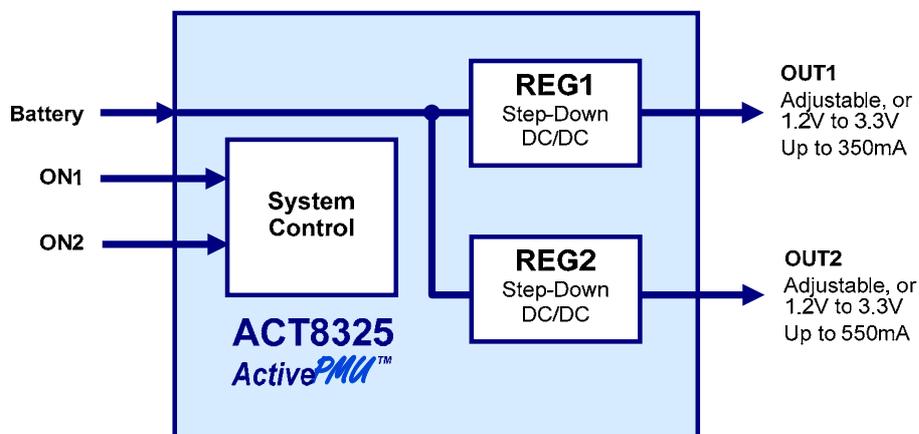
GENERAL DESCRIPTION

The patent-pending ACT8325 integrates two step-down 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 hand-held equipment that can benefit from the advantages of *ActivePMU* technology but do not require a high level of integration.

REG1 and REG2 are fixed-frequency, current-mode PWM step-down DC/DC converters that are optimized for high efficiency and are capable of supplying up to 350mA and 550mA, respectively. Both outputs are available in a wide range of factory-preset output voltage options, and an adjustable output voltage mode is also available.

The ACT8325 is available in a tiny 3mm x 3mm 10-pin Thin-DFN package that is just 0.75mm thin.

SYSTEM BLOCK DIAGRAM



PRODUCT OPTIONS

Block	Function	Output Voltage ^①	Capability ^②
REG1	Step-Down DC/DC	Adjustable, 1.2V, 1.5V, 1.8V, 2.5V, 3.0V, or 3.3V	350mA
REG2	Step-Down DC/DC		550mA

①: Output voltage options detailed in this table represent standard voltage options, and are available for samples or production orders. Contact Active-Semi for more information regarding semi-custom output voltage combinations.

②: Contact factory for additional available products or custom requirements.

FUNCTIONAL BLOCK DIAGRAM

