5V/12V Single Synchronous Buck Controller

## Features

**GStek** 

- 600KHz Constant Switching Frequency
- VBAT Rang= 4.5V~13.2V
- Support 0.6V Internal Reference Voltage
- 0-80% Duty Cycle
- Soft-Start Circuit Built-In
- Short Circuit Protection
- Under Voltage Protection and Over Voltage
  Protection
- Flexible Over Current Protection Setting
- Thermal Fault Protection
- Integrated Bootstrap Diode
- PSOP-8 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

## Applications

- Mother Board
- Graphic cards
- Cable Modems, Set Top Boxes, and Xdsl Supplies
- Low cost PC

## **Typical Application**

## **General Description**

The GS7256 is a single buck controller working in a voltage mode with fixed 600 kHz frequency. It allows wide input voltage which is either a single  $5\sim12V$  or two supply voltages for various applications, and the output voltage can be precisely regulated to as low as 0.6V with a maximum tolerance of  $\pm1.0\%$ . The GS7256 is equipped with accurate current-limit,

under-voltage output and over-voltage output protections. Otherwise, It includes internal soft-start and built-in bootstrap diode to simplify the circuit design.

The GS7256 is available in a simple PSOP-8 Package.

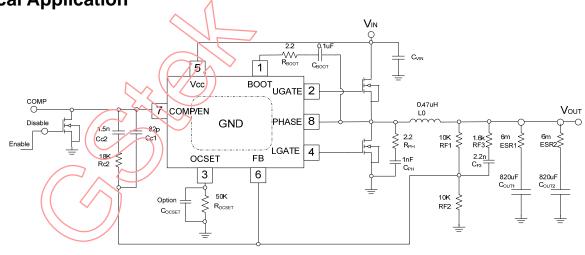


Figure 1 Typical Application of GS7256

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