

## Features

- VCC Supply Input from 5V to 12V
- Power Converter Input Rang= 3V~20V
- Support 0.8V Internal Reference Voltage
- 0-90% Duty Cycle
- Soft-Start Circuit Built-In
- Voltage Mode Control Loop
- Chip Enable through OSC pin
- Latched Over Voltage Protection
- Internally Fixed OCP threshold
- Precise Lossless Inductor DCR Current Sense with Four Re-entry Times Before Latch
- Thermal Fault Protection
- Integrated Bootstrap Diode
- Programmable Operating Frequency from 100kHz to 1000kHz
- Automatic Power Saving Mode
- Synchronization Function
- Remote Ground Sensing
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)
- TQFN16-3x3 Package

## Applications

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

## General Description

The GS7250 is a single buck controller working in a voltage mode with programmable operating frequency which is setting through a resistance to ground. GS7250 provides power saving operation and gate drivers. It allows wide input voltage which is either a single 5~12V or two supply voltages for various applications, and the output voltage can be precisely regulated to as low as 0.8V

The GS7250 is provides a programmable dual level over current protection with differential phase current sensing, it also provides UVP,OVP,OTP UVLO for VCC and VCCP. Otherwise, it includes internal soft-start, power OK indication and built-in bootstrap diode to simplify the circuit design.

The GS7250 is available in a simple TQFN16-3x3 Package.