

## Features

- 5V LDO with 100mA
- Power Converter Input Rang=4.5V~24V
- Support 0.6V Internal Reference Voltage
- 0-90% Duty Cycle
- External Soft-Start Setting.
- Voltage Mode Control Loop
- External OCP Threshold Setting
- Thermal Fault Protection
- Integrated Bootstrap Diode
- Switching Frequency Option:  
300KHz,450KHz,550kHz
- Flexible Mode Selection.
- Adjustable Output Voltage
- OVP、UVP、OTP Protections
- Power Good Output
- QFN40-6x6 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

## General Description

The GS9235 is a high current synchronous buck converter working in a voltage mode with 3 fixed frequencies. GS9235 provides power saving operation and gate drivers. It allows wide input voltage operates from 4.5V to 24V, and the output voltage can be precisely regulated to as low as 0.6V at up to 15A.

The Mode of GS9235 can be set by mode pin which has two operations: Sonic and Non-sonic. It also provides UVP, OVP, OTP, OCP and UVLO Protections. Otherwise, it includes internal soft-start, power ok indication and built-in bootstrap diode to simplify the circuit design.

The GS9235 is available in a QFN40-6x6 Package.