



SC8703 High Efficiency, Synchronous Buck-Boost Controller

1 Description

The SC8703 is a synchronous 4-switch buck-boost controller. It is able to effectively output voltage no matter it is higher, lower or equal to the input voltage.

The SC8703 supports very wide input and output voltage range. It can support applications from 2.7V to 29V input range. The driver voltage is set to 10V to fully utilize external MOSFETs for highest efficiency.

The SC8703 supports input current limit, output current limit, dynamic adjustable input power, internal current limit, short current protection and over temperature protections to ensure safety under different abnormal conditions.

The SC8703 adopts 32 pin QFN 4x4 package.

2 Features

- High efficient buck-boost operation
- Wide input voltage range: 2.7 V to 29 V
- Wide output range: 2.5V to 29V
- Integrated 10V, 2A gate driver
- Adjustable frequency 200kHz to 600kHz
- Internal Inductor current limit
- Dynamic adjustable Input and Output current limit
- Auto PFM mode in light load
- Under voltage protection
- QFN-32 Package

3 Applications

- Smart USB Socket
- USB PD
- USB HUB
- Car Charger
- Industrial applications

4 Device Information

ORDER NUMBER	PACKAGE	BODY SIZE
SC8703QDER	32 pin QFN	4mm x 4mm x 0.75mm