

SC8701 High Efficiency, Synchronous Buck-Boost Controller

1 Description

The SC8701 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 SC8701 supports very wide input and output voltage range. It can support applications from 2.7V to 36V input range and 2V to 36V output range. The driver voltage is set to 10V to fully utilize external MOSFETs for highest efficiency.

The SC8701 supports input current limit, output current limit and over temperature protections to ensure safety under different abnormal conditions.

The SC8701 adopts 32 pin QFN 4x4 package.

3 Applications

- Power Bank
- USB PD
- Car Charger
- Industrial applications

4 Device Information

ORDER NUMBER	PACKAGE	BODY SIZE
SC8701QDER	32 pin QFN	4mm x 4mm x 0.75mm

2 Features

- High efficient buck-boost operation
- Dynamic adjustable output voltage
- Dynamic adjustable Input and Output current limit
- Wide input voltage range: 2.7 V to 36 V
- Wide output range: 2V to 36V
- Integrated 10V, 2A gate driver
- Adjustable frequency 200kHz to 600kHz
- Under voltage protection
- QFN-32 Package

