

VQFN020V4040, VQFN016V3030

DC/DC Converters

Optimized for multi-function, high performance battery-driven portable devices of all types, ROHM's DC/DC converters and controllers (BD8301MUV/BD8303MUV) feature a wide input voltage range and automatic step-up/-down operation for reduced power consumption. High output efficiency is maintained across the entire input range. Only one coil is used and fewer parts are required than conventional Sepic systems contributing to smaller power supply configurations.

Applications

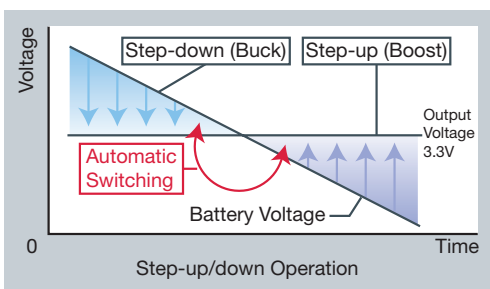
- Mobile phones
- Digital cameras/camcorders
- Gaming equipment
- Portable audio players
- IC recorders
- Communication equipment
- Portable GPS devices
- Handheld printers
- Navigation systems
- Digital photo frames
- Cordless phones
- More

Pricing

Quantity per reel: 3,000 pieces

Price: \$1.19 - \$1.88

Samples: Available now



Key Features

BD8301MUV (internal FET type)

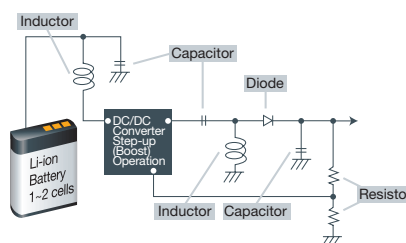
- Configure a cross converter with just a single coil
- Wide input voltage range: 2.5V to 5.5V
- Broad range of output voltages: 2.8V to 5.5V
- Large current output: 1A
- High efficiency
- Compact VQFN020V4040 package

Key Features

BD8303MUV (external large current FET type)

- Configure a cross converter with just a single coil
- Wide input voltage range: 2.7V to 14V
- Compatible with large current FETs up to 5A
- Compact VQFN016V3030 package

General Boost/Buck Circuit (*SEPIC Method)

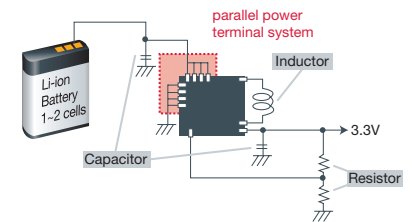


High efficiency not possible with the SEPIC system
84% max. efficiency

Additional Inductor, capacitor and diode required
Large mounting area

(Peripheral components: 2 inductors, 3 capacitors, 1 diode, 2 resistors)
*Single Encoded Primary Inductor Converter

ROHM Simple and Smart Configuration



Terminal layout designed to minimize wiring resistance
High efficiency: 96%

Eliminates the need for an inductor, capacitor and diode
Space saving

(Peripheral components: 1 inductor, 2 capacitors, 2 resistors)

More info

http://www.rohm.com/products/lsi/power/1chip_fet/single-chip/bd8301muv/

http://www.rohm.com/products/lsi/power/external_fet/large_current_external/bd8303muv/