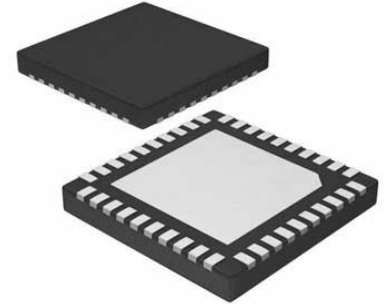


Conv DC-DC 3V to 42V Synchronous Step Down Quad-Out 1V 1.5A/1.8A/1.8A/2.5A  
Automotive 40-Pin QFN EP Tube



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN-40
Product Type	Power Management ICs
RoHS	
Lifecycle	

Please submit RFQ for LT8602EIJ#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT8602 is a quad channel, current mode, monolithic buck switching regulator with a programmable power-on reset. All regulators are synchronized to a single oscillator with an adjustable frequency from 250kHz to 2.2MHz. The LT8602 can be configured for micropower Burst Mode operation or pulse-skipping operation at light load. Micropower operation results in quiescent current of 30 $\mu$ A with all four regulators operating in the application below.

The high voltage channels are synchronous buck regulators that operate from an input of 3V to 42V. The output currents are up to 1.5A (OUT1) and 2.5A (OUT2). The low voltage channels operate from an input of 2.6V to 5.5V. Internal synchronous power switches provide high efficiency with output currents up to 1.8A. The LT8602 uses a 2-phase clock with channels 1 and 3 operating 180° from channels 2 and 4 to reduce input ripple current on both HV and LV inputs. All channels have cycle-by-cycle current limit, providing protection against shorted outputs. Thermal shutdown provides additional protection.

The LT8602 is available in a 40-lead 6mm  $\times$  6mm QFN package.

## Features

Flexible Power Supply System Providing Four Outputs with a Wide Input Range

Two High Voltage Synchronous Buck Regulators:

3V to 42V Input Voltage Range

Output Currents Up to 2.5A and 1.5A

High Efficiency Up to 93%

Two Low Voltage Synchronous Buck Regulators:

2.6V to 5.5V Input Voltage Range

Output Currents Up to 1.8A and 94% Efficiency

Resistor Programmable and Synchronizable 250kHz to 2.2MHz Switching Frequency

Low Ripple Burst Mode® Operation:

30µA IQ at 12VIN

Output Ripple < 15mV

Programmable Power-On Reset

Power Good Indicators

2-Phase Clock Reduces Input Current Ripple

Available in Thermally Enhanced 40-Lead QFN (6mm × 6mm) Package

## Application

Automotive Systems

Distributed Supply Regulation

Industrial Controls and Power Supplies

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN