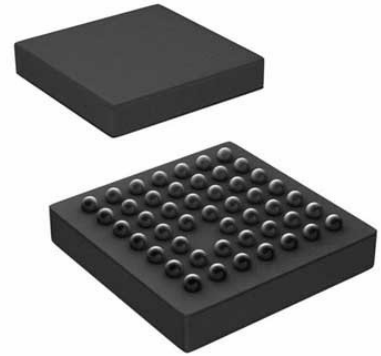


Conv DC-DC 3.4V to 40V Step Down Single-Out 0.97V to 18V 3.5A uModule  
Automotive 48Pin BGA Tray



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	BGA48
Product Type	Power Management ICs
RoHS	Green
Lifecycle	

Please submit RFQ for LTM8003IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM8003 is a 40VIN, 6A peak, 3.5A continuous stepdown Silent Switcher  $\mu$ Module<sup>®</sup> (power module) regulator. Included in the package are the switching controller, power switches, inductor, and all support components. Operating over an input voltage range of 3.4V to 40V, the LTM8003 supports an output voltage range of 0.97V to 18V and a switching frequency range of 200kHz to 3MHz, each set by a single resistor. Only the input and output filter capacitors are needed to finish the design.

The low profile package enables utilization of unused space on the bottom of PC boards for high density point of load regulation. The LTM8003 is packaged in a thermally enhanced, compact over-molded ball grid array (BGA) package suitable for automated assembly by standard surface mount equipment. The LTM8003 is RoHS compliant.

## Features

Complete Step-Down Switch Mode Power Supply

Low Noise Silent Switcher® Architecture

Wide Input Voltage Range: 3.4V to 40V

Wide Output Voltage Range: 0.97V to 18V

Wide Temperature Range: -40°C to 150°C (H-Grade)

3.5A Continuous Output Current, 6A peak

FMEA Compliant Pinout (LTM8003-3.3) Output Stays at or Below Regulation Voltage During Adjacent Pin Short or if a Pin Is Left Floating

CISPR25 Class 5 Compliant

Selectable Switching Frequency: 200kHz to 3MHz

External Synchronization

Low Quiescent Current: 25µA (5VOUT)

Tiny, Low Profile 6.25mm × 9mm × 3.32mm RoHS Compliant BGA Package

## Application

Automotive Battery Regulation

Power for Portable Products

Distributed Supply Regulation

Industrial Supplies

Wall Transformer Regulation

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN