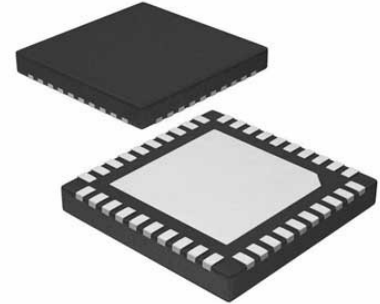


Power Management Solution for Application Processors

Manufacturers	Analog Devices, Inc
Package/Case	40-Lead QFN (6mm x 6mm x 0.75mm w/ EP)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3676EIJ#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3676 is a complete power management solution for advanced portable application processor-based systems. The device contains four synchronous step-down DC/DC converters for core, memory, I/O, and system on-chip (SoC) rails and three 300mA LDO regulators for low noise analog supplies. The LTC3676-1 has a $\pm 1.5A$ buck regulator configured to support DDR termination plus a VTTR reference output. An I2C serial port is used to control regulator enables, power-down sequencing, output voltage levels, dynamic voltage scaling, operating modes and status reporting.

Regulator start-up is sequenced by connecting outputs to enable pins in the desired order or via the I2C port. System power-on, power-off and reset functions are controlled by pushbutton interface, pin inputs, or I2C.

The LTC3676 supports i.MX, PXA and OMAP processors with eight independent rails at appropriate power levels. Other features include interface signals such as the VSTB pin that toggles between programmed run and standby output voltages on up to four rails simultaneously. The device is available in a 40-lead 6mm \times 6mm QFN and 48-lead exposed pad LQFP packages.

Features

Quad I2C Adjustable High Efficiency Step Down DC/DC Converters: 2.5A, 2.5A, 1.5A, 1.5A

Three 300mA LDO Regulators (Two Adjustable)

DDR Power Solution with VTT and VTTR Reference

Pushbutton ON/OFF Control with System Reset

Independent Enable Pin-Strap or I2C Sequencing

Programmable Autonomous Power-Down Control

Dynamic Voltage Scaling

Power Good and Reset Functions

Selectable 2.25MHz or 1.12MHz Switching Frequency

Always Alive 25mA LDO Regulator

12 μ A Standby Current

Low Profile 40-Lead 6mm \square 6mm QFN and 48-Lead Exposed Pad LQFP

AEC-Q100 Qualified for Automotive Application

Application

Supports Freescale i.MX6, ARM Cortex, and Other Application Processors

Handheld Instruments and Scanners

Portable Industrial and Medical Devices

Automotive Infotainment

High End Consumer Devices

Multi-Rail Systems

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



[LTM8045EX#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN