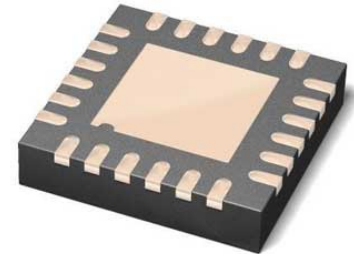


Conv DC-DC 4V to 20V Synchronous Step Down Single-Out 20V 5A 24-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN24
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3605IUF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3605 is a high efficiency, monolithic synchronous buck regulator using a phase lockable controlled on-time constant frequency, current mode architecture. PolyPhase operation allows multiple LTC3605 regulators to run out of phase while using minimal input and output capacitance. The operating supply voltage range is from 15V down to 4V, making it suitable for dual lithium-ion battery inputs as well as point of load power supply applications from a 12V or 5V rail.

The operating frequency is programmable from 800kHz to 4MHz with an external resistor. The high frequency capability allows the use of small surface mount inductors. For switching noise sensitive applications, it can be externally synchronized from 800kHz to 4MHz. The PHMODE pin allows user control of the phase of the outgoing clock signal. The unique constant frequency/controlled on-time architecture is ideal for high step-down ratio applications that are operating at high frequency while demanding fast transient response. Two internal phase-lock loops synchronize the internal oscillator to the external clock and also servos the regulator on-time to lock on to either the internal clock or the external clock if it's present.

Input Voltage Range LTC36054V to 15V LTC3605A4V to 20V

Features

High Efficiency: Up to 96%

5A Output Current

4V to 15V VIN Range

Integrated Power N-Channel MOSFETs (70mΩ Top and 35mΩ Bottom)

Adjustable Frequency 800kHz to 4MHz

PolyPhase® Operation (Up to 12 Phases)

Output Tracking

0.6V ±1% Reference Accuracy

Current Mode Operation for Excellent Line and Load Transient Response

Shutdown Mode Draws Less Than 15μA Supply Current

Available in 24-Pin (4mm × 4mm) QFN Package

Application

Point of Load Power Supply

Portable Instruments

Distributed Power Systems

Battery-Powered Equipment

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



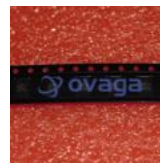
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN