

IC REG CTRLR BUCK PWM CM 24-SSOP

Manufacturers	<u>Analog Devices, Inc</u>
Package/Case	SSOP24
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3713EG#TRPBFB or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3713 is a high current, high efficiency synchronous buck switching regulator controller optimized for use with very low input supply voltages. It operates from inputs as low as 1.5V and provides a regulated output voltage from 0.8V up to (0.9)V<sub>IN</sub>. The controller uses a valley current control architecture to enable high operating frequencies without requiring a sense resistor. Operating frequency is selected by an external resistor and is compensated for variations in V<sub>IN</sub> and V<sub>OUT</sub>. The LTC3713 uses a pair of standard 5V logic-level N-channel external MOSFETs, eliminating the need for expensive P-channel or low threshold devices.

Discontinuous mode operation provides high efficiency operation at light loads. A forced continuous control pin reduces noise and RF interference, and can assist secondary winding regulation by disabling discontinuous operation when the main output is lightly loaded. Fault protection is provided by internal foldback current limiting, an output overvoltage comparator and an optional short-circuit shutdown timer.

## Features

Very Low VIN(MIN): 1.5V

True Current Mode Control

5V Drive for N-Channel MOSFETs Eliminates Auxillary 5V Supply

No Sense Resistor Required

Uses Standard 5V Logic-Level N-Channel MOSFETs

Adjustable Current Limit

Adjustable Frequency

Switch tON(MIN) < 100ns

2% to 90% Duty Cycle at 200kHz

0.8V  $\pm$ 1% Reference

Power Good Output Voltage Monitor

Programmable Soft-Start

Output Overvoltage Protection

Optional Short-Circuit Shutdown Timer

Small 24-Lead SSOP Package

## Application

Telecom Card 3.3V, 2.5V, 1.8V Step-Down

Bus Termination (DDR memory, SSTL)

Synchronous Buck with General Purpose Boost

Low VIN Synchronous Boost



Label: 1 of 1

BASE UOM:

Vendor: CHEM# 1004652  
Pkg: Vendor: Pkg:

2G DC-DC CTRLR 24P SSOP

162 PCS.

LTR

4502493857

CUST PART : 521-10538

VENDOR  
LTC

MANF. PART : LTC3713EG#PBF

QTY : [Redacted]

COG : MY

DATE CODE : 1324

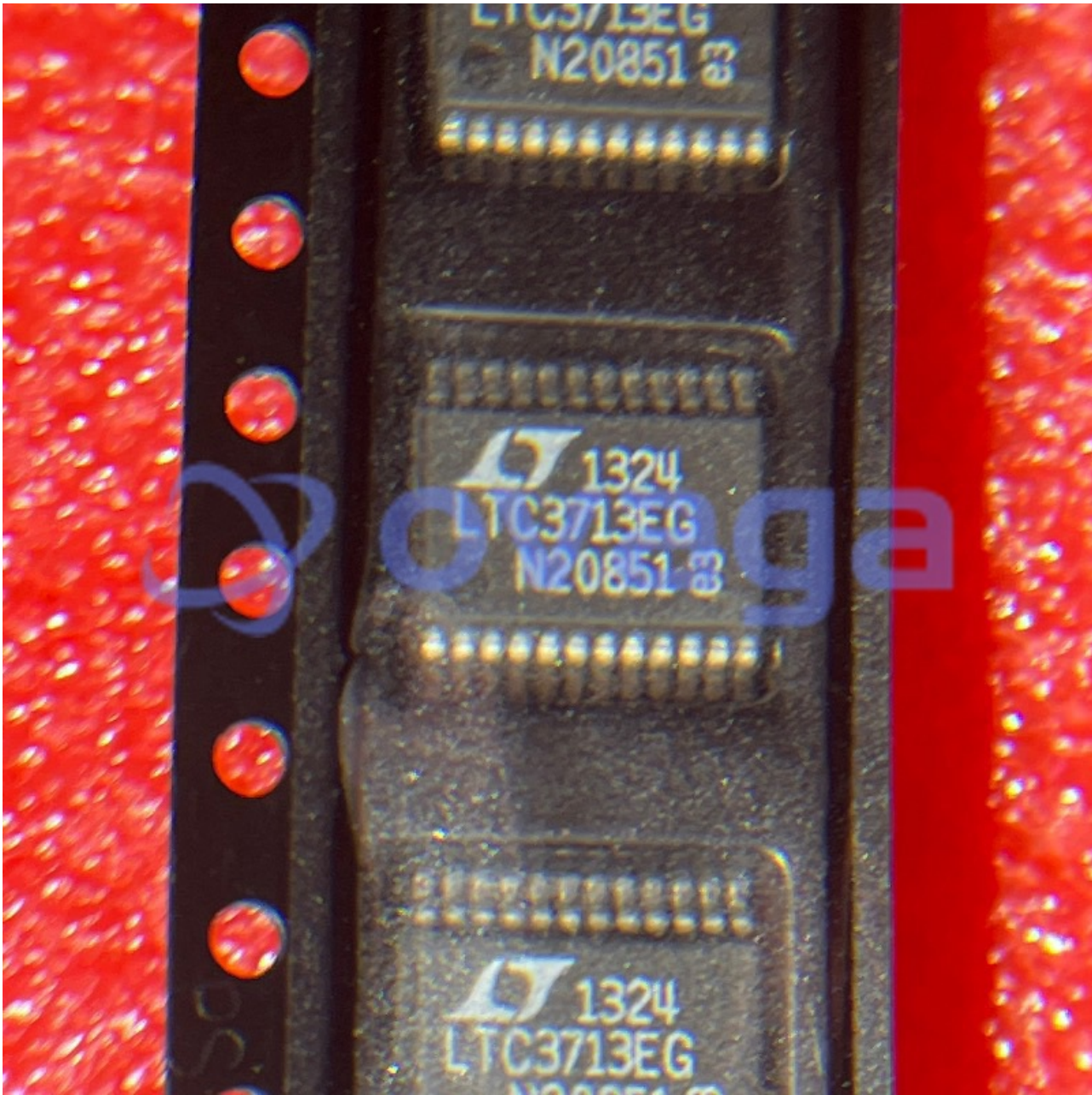
RHC

TRANS : P9379059

ROHS COMPLIANT  
7109349 - PW - 7433  
52 - FEDX 2D COL

W %0101 6  
3752706 04 - 05

LOW INPUT VOLTAGE SYNCH STDPDN



### Related Products



[LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



[LT1038CK](#)

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TO-3



[LTC3440EMS](#)

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MSOP10



[LTC2990IMS#PBF](#)

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10MSOP



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BGA40



[LT4295IUFD#PBF](#)

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28-WFQFN