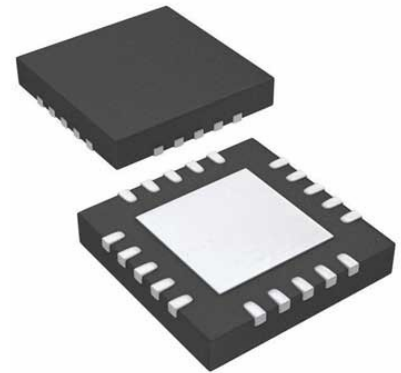


20V 1A Buck DC/DC with Integrated SCAP Charger and Backup Regulator

| | |
|---------------|--|
| Manufacturers | Analog Devices, Inc |
| Package/Case | 20-Lead QFN (4mm x 4mm x 0.75mm w/ EP) |
| Product Type | Power Management ICs |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LTC3355EUF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3355 is a complete input power interrupt ride-through DC/DC system. The part charges a supercapacitor while delivering load current to VOUT, and uses energy from the supercapacitor to provide continuous VOUT backup power when VIN power is lost. The LTC3355 contains a nonsynchronous constant frequency current mode monolithic 1A buck switching regulator to provide a 2.7V to 5V regulated output voltage from an input supply of up to 20V.

A 1A programmable CC/CV linear charger charges the supercapacitor from VOUT. When the VIN supply drops below the PFI threshold, the device's constant frequency nonsynchronous current mode 5A boost switching regulator delivers power from the supercapacitor to VOUT. A thermal regulation loop maximizes charge current while limiting the die temperature to 110°C. The IC has boost, charger and VIN programmable current limits. The LTC3355 is available in a 20-lead 4mm × 4mm QFN surface mount package.

Features

VIN Voltage Range: 3V to 20V

VOUT Voltage Range: 2.7V to 5V

1A Current Mode Buck Main Regulator

5A Boost Backup Regulator Powered from Single Supercapacitor

Boost Regulator Operates Down to 0.5V for Maximum Utilization of Supercapacitor Energy

Programmable Supercapacitor Charge Current to 1A with Overvoltage Protection

Charger Supports Single Cell CC/CV Battery Charging

Programmable VIN Current Limit

Programmable Boost Current Limit

VIN Power Fail Indicator

VCAP Power Good Indicator

VOUT Power On Reset Output

Compact 20-Lead 4mm × 4mm QFN Package

Application

Ride-Through “Dying Gasp” Supplies

Power Meters/Industrial Alarms/Solid State Drives

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