

18V Dual Input Micropower PowerPath Prioritizer

Manufacturers	Analog Devices, Inc
Package/Case	10-Lead DFN (3mm x 3mm w/ EP)
Product Type	Switches
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4419IDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4419 is a dual input monolithic PowerPath™ prioritizer with low operating current, that provides backup switchover for keeping critical circuitry alive during brown out and power loss conditions. Unlike diode-OR products, little current is drawn from the inactive supply even if its voltage is greater than the active supply.

Internal 2Ω, current limited PMOS switches provide power path selection from a primary input (V1) or a backup input (V2) to the output. An adjustable voltage monitor set via an external resistive divider provides flexibility in setting the V1 to V2 switchover threshold. When primary input V1 drops, the ADJ monitor input causes OUT to be switched to V2. Fast non-overlap switchover circuitry prevents both reverse and cross conduction while minimizing output droop.

The LTC4419 has two auxiliary comparators with open-drain outputs that provide flexible voltage monitoring. The V2ON output indicates if V2 is powering OUT. Freshness seal mode prevents V2 battery discharge during storage or shipment.

Features

Selects Highest Priority Valid Supply from Two Inputs

Wide 1.8V to 18V Operating Range

Internal Dual 2Ω , 0.5A Switches

Low $3.6\mu\text{A}$ Operating Current

Low 320nA V_2 Current When V_1 Connected to OUT

Blocks Reverse and Cross Conduction Currents

Reverse Supply Protection to -15V

V_2 Freshness Seal/Ship Mode

Two Auxiliary $\pm 2.3\%$ Accurate Voltage Comparators

Overcurrent and Thermal Protection

Thermally Enhanced 10-Pin $3\text{mm} \times 3\text{mm}$ DFN and 12-Lead Exposed Pad MSOP Packages

Application

Low Power Battery Backup

Portable Equipment

Point-of-Sale (POS) Equipment

Related Products



[LT3430IFE](#)

Analog Devices, Inc
TSSOP-16



[LTC3832EGN](#)

Analog Devices, Inc
SSOP-16



[LTC3900ES8](#)

Analog Devices, Inc
SOP8



[LT1074IT7](#)

Analog Devices, Inc
TO-220-7



[LT1074HVCT7](#)

Analog Devices, Inc
TO-220-7



[LT1158CSW](#)

Analog Devices, Inc
SOP16



[LTC1625IS](#)

Analog Devices, Inc
SOP16



[LTC1625CS](#)

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SOIC-16