

Quad UV/OV Positive/Negative Voltage Supervisor; Package: 16-QSOP 150 MIL;  
Temperature Range: -40°C to +125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QSOP-16
Product Type	PMIC - Supervisors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADM2914-2ARQZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADM2914 is a quad voltage supervisory IC ideally suited for monitoring multiple rails in a wide range of applications.

Each monitored rail has two dedicated input pins, VHx and VLx, which allow each rail to be monitored for both overvoltage (OV) and undervoltage (UV) conditions. A common active low undervoltage (UV) and overvoltage (OV) pin is shared by each of the monitored voltage rails.

The ADM2914 includes a 1 V buffered reference output, REF, that acts as an offset when monitoring a negative voltage. The three-state SEL pin determines the polarity of the third and fourth inputs, that is, it configures the device to monitor positive or negative supplies.

The device incorporates an internal shunt regulator that enables the device to be used in higher voltage systems. This feature requires a resistor to be placed between the main supply rail and the VCC pin to limit the current flow into the VCC pin to no greater than 10 mA. The ADM2914 uses the internal shunt regulator to regulate VCC if the supply line exceeds the absolute maximum ratings.

The ADM2914 is available in two models. The ADM2914-1 offers a latching overvoltage output that can be cleared by toggling the LATCH input pin. The ADM2914-2 has a disable pin that can override and disable both the OV and UV output signals.

The ADM2914 is available in a 16-lead QSOP package. The device operates over the extended temperature range of -40°C to +125°C.

## Features

Quad UV/OV positive/negative supervisor

Supervises up to 2 negative rails

Adjustable UV and OV input thresholds

High threshold accuracy over temperature:  $\pm 1.5\%$

1 V buffered reference output

Open-drain UV and OV reset outputs

Adjustable reset timeout with disable option

Outputs guaranteed down to VCC of 1 V

Glitch immunity

62  $\mu\text{A}$  supply current

16-lead QSOP package

ADM2914-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Operating temperature range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

V62/12655 DSCC Drawing Number

## Application

Server supply monitoring

FPGA/DSP core and I/O voltage monitoring

Telecommunications equipment

Medical equipment

## Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc  
MSOP-8



[ADP3367ARZ](#)

Analog Devices, Inc  
SOIC-8



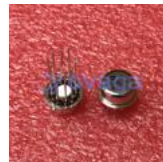
[ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc  
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