

Power Over Ethernet PD Controller 0V 57V 13W 8-Pin SOIC

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: SOIC-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free RoHS

Lifecycle: Active



Images are for reference only

Inquiry

General Description

These easy-to-use 8-pin integrated circuits contain all of the features needed to develop an IEEE 802.3af compliant powered device (PD). The TPS2375 family is a second generation PDC (PD Controller) featuring 100-V ratings and a true open-drain, power-good function.

In addition to the basic functions of detection, classification and undervoltage lockout (UVLO), these controllers include an adjustable inrush limiting feature. The TPS2375 has 802.3af compliant UVLO limits, the TPS2377 has legacy UVLO limits, and the TPS2376 has a programmable UVLO with a dedicated input pin.

The TPS2375 family specifications incorporate a voltage offset of 1.5 V between its limits and the IEEE 802.3af specifications to accommodate the required input diode bridges used to make the PD polarity insensitive.

Additional resources can be found on the TI Web site www.ti.com.

Key Features

Fully Supports IEEE 802.3af Specification

Integrated 0.58-Ω, 100-V, Low-Side Switch

15-kV System Level ESD Capable

Supports Use of Low-Cost Silicon Rectifiers

Programmable Inrush Current Control

Fixed 450-mA Current Limit

Fixed and Adjustable UVLO Options

Open-Drain, Power-Good Reporting

Overtemperature Protection

Industrial Temperature Range: -40°C to 85°C

8-Pin SOIC and TSSOP Packages

APPLICATIONS VoIP Phones

WLAN Access Points

Security Cameras

Internet Appliances

POS Terminals

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Recommended For You

TPD3S014DBVR TPS2065CDBVR TPS2557DRBT

Texas Instruments, Inc Texas Instruments, Inc Texas Instruments, Inc

SOT23-6 SOT23-5 SON8

TPS2042BDR TPS2051BDR TPL7407LPWR

Texas Instruments, Inc Texas Instruments, Inc Texas Instruments, Inc

SOP8 SOP8 TSSOP16

TPS23753APWR

Texas Instruments, Inc

TSSOP14

TPS23751PWPR

Texas Instruments, Inc

HTSSOP16

TPS22914BYFPR

Texas Instruments, Inc

DSBGA4

TPS2116DRLR

Texas Instruments, Inc

SOT5X3-8

TPS65150QPWPRQ1

Texas Instruments, Inc

HTSSOP-24

TPS2115ADRBR

Texas Instruments, Inc

VSON8

TPS259460ARPWR

Texas Instruments, Inc

VQFN-10

TPS2410PWR

Texas Instruments, Inc

TSSOP-14

TPS2113ADRBR

Texas Instruments, Inc

SON8