

Power Over Ethernet PD Controller 0V 57V 26W 8-Pin HSOIC

EP



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

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

Adjustable Turn-on Thresholds

Permits High-power 26 W Designs

Integrated 0.58- μ s, 100-V, Low-Side Switch

15-kV System Level ESD Capable

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

8-Pin PowerPad[®] SOIC Package

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Description

The 8-pin integrated circuit contains all of the features needed to develop a high power IEEE 802.3af style powered device (PD). The TPS2376-H offers a higher current limit and increased thermal dissipation capability over the TPS237X family of devices. The TPS2376-H implements a fully compliant PoE interface while permitting non-standard implementations that draw more power. A 26 WPD may be constructed when working from a 52-V minimum PSE over 100 m of CAT-5 cable. The TPS2376-H features a 100-V rating, 600-mA capability, adjustable inrush limiting, fault protection with auto-retry, and true open-drain power-good functionality.

Recommended For You

TPD3S014DBVR

Texas Instruments, Inc
SOT23-6

TPS2065CDBVR

Texas Instruments, Inc
SOT23-5

TPS2557DRBT

Texas Instruments, Inc
SON8

TPS2042BDR

Texas Instruments, Inc
SOP8

TPS2051BDR

Texas Instruments, Inc
SOP8

TPL7407LPWR

Texas Instruments, Inc
TSSOP16

TPS23753APWR

Texas Instruments, Inc
TSSOP14

TPS2116DRLR

Texas Instruments, Inc
SOT5X3-8

TPS259460ARPWR

Texas Instruments, Inc
VQFN-10

TPS23751PWPR

Texas Instruments, Inc
HTSSOP16

TPS65150QPWPRQ1

Texas Instruments, Inc
HTSSOP-24

TPS2410PWR

Texas Instruments, Inc
TSSOP-14

TPS22914BYFPR

Texas Instruments, Inc
DSBGA4

TPS2115ADRBR

Texas Instruments, Inc
VSON8

TPS2113ADRBR

Texas Instruments, Inc
SON8