


Power Over Ethernet PD Controller 0V 57V 90W 20-Pin VQFN EP

Manufacturer:	Texas Instruments, Inc
Package/Case:	VQFN-20
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The TPS2373 contains all of the features needed to implement an IEEE802.3at or IEEE802.3bt (draft) (Type 1-4) powered device (PD). The low internal switch resistance allows the TPS2373-4 and TPS2373-3 to support high power applications up to 90 W and 60 W respectively. Assuming 100-meter CAT5 cable, this translates into 71.3 W and 51 W at PD input.

The TPS2373 operates with enhanced features.

The Advanced Startup function for DC-DC results in a simple, flexible, and minimal system cost solution, while ensuring that IEEE802.3bt (draft) startup requirements are met. It helps to reduce the size of the low voltage bias capacitor considerably. It also allows long DC-DC converter soft-start period and enables the use of a low-voltage PWM controller.

The Automatic MPS function enables applications requiring very low power standby modes. The TPS2373 automatically generates the necessary pulsed current to maintain the PSE power. An external resistor is used to enable this functionality and to program the MPS pulsed current amplitude.

Key Features

IEEE 802.3bt (Draft) PD Solution for Type 3 or Type 4 PoE

Supports Power Levels for Type-4 (TPS2373-4) 90-W and Type-3(TPS2373-3) 60-W Operation

Robust 100 V Hotswap MOSFET
TPS2373-4 (typ.): 0.1- Ω , 2.2-A Current Limit

TPS2373-3 (typ.): 0.3- Ω , 1.85-A Current Limit

Allocated Power Indicator Outputs

Advanced Startup for DC-DC
Simplifies Downstream DC-DC Design

Compliant to PSE Inrush

Automatic Maintain Power Signature (MPS)
Auto-adjust MPS for Type 1-2 or 3-4 PSE

Supports Ultra-Low Power Standby Modes

Primary Adapter Priority Input

Supports PoE++PSE

-40°C to 125°C Junction Temperature Range

20-lead VQFN Package

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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

TPS65150QPWRQ1

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