Power Over Ethernet PSE Controller 3V 3.6V 28-Pin TSSOP

Manufacturer:	Texas Instruments, Inc
Package/Case:	TSSOP28
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active
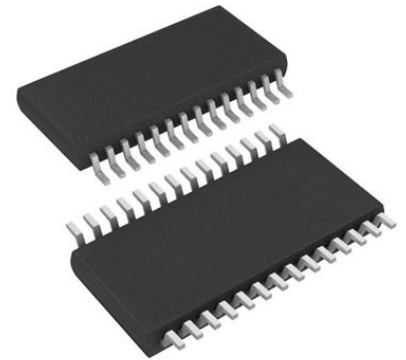
Images are for reference only

Inquiry

General Description

The TPS23861 is an easy-to-use, flexible, IEEE802.3at PSE solution. As shipped, itautomatically manages four 802.3at ports without the need for any external control.

The TPS23861 automatically detects Powered Devices (PDs) that have a valid signature,determines power requirements according to classification and applies power. Two-eventclassification is supported for type-2 PDs. The TPS23861 supports DC disconnection and the externalFET architecture allows designers to balance size, efficiency and solution costrequirements.

The unique pin-out enables 2-layer PCB designs via logical grouping and clear upper andlower differentiation of I2C and power pins. This delivers best-in-classthermal performance, Kelvin accuracy and low-build cost.

In addition to automatic operation, the TPS23861 supports Semi-Auto Mode viaI2C control for precision monitoring and intelligent power management.Compliance with the 400-ms TPON specification is ensured whether insemi-automatic or automatic mode.

Key Features

IEEE 802.3at Quad Port PSE controller
Auto Detect, classification

Auto Turn-On anddisconnect

Efficient 255-mΩ sense resistor

Pin-Out enables Two-LayerPCB

Kelvin Current Sensing

4-Pointdetection

Automatic mode – as shipped
No External terminal setting required

No InitialI2C communication required

Semi-Automatic mode – set byI2C command
Continuous Identification and Classification

Meets IEEE400-ms TPON specification

Fast-Port shutdowninput

Operates best when used in conjunction with system reference codehttp://www.ti.com/product/TPS23861/toolssoftware

Optional I2C control andmonitoring

–40°C to 125°C Temperature range

TSSOP 28Package 9.8 mm x 6.6 mm

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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	**TPS2116DRLR**	**TPS259460ARPWR**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
TSSOP14	SOT5X3-8	VQFN-10
TPS23751PWPR	**TPS65150QPWPRQ1**	**TPS2410PWR**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
HTSSOP16	HTSSOP-24	TSSOP-14
TPS22914BYFPR	**TPS2115ADRBR**	**TPS2113ADRBR**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
DSBGA4	VSON8	SON8