

Isolated, Low Cost, Non-Synchronous PoE PD Power Supply Reference Design

(ACTIVE) PMP717

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Description

PMP717 is a low cost, isolated, non-synchronous Power-over-Ethernet PD power supply reference design intended to ease implementation of PoE in devices such as IP phones, WLAN AP's and security cameras. The reference design uses a TPS2375 PoE Powered Device Controller to implement all necessary detection, classification, inrush current limiting, UVLO and switch FET control necessary to be compliant with the IEEE802.3af Power-over-Ethernet standard. A UCC3809 Economy Primary Side Controller is used to generate 3.3V at 1.5A from the 48V PoE input. The design is optimized for low cost and smallest board area possible.

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Part Number	Status
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TI Devices (4)

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Part Number ^	Name	Product Family
TPS2375	IEEE 802.3af PoE Powered Device Controllers	Power Over Ethernet (PoE)/LAN Solutions
TPS2376	IEEE 802.3af PoE Powered Device Controllers	Power Over Ethernet (PoE)/LAN Solutions
TPS2377	IEEE 802.3af PoE Powered Device Controllers	Power Over Ethernet (PoE)/LAN Solutions
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Bill of Materials

Find the complete list of components in this reference design.



CAD/CAE Symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
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	 TSSOP (PW) 8	Download	-
TPS2376	 SOIC (D) 8	Download	Download
	 TSSOP (PW) 8	Download	-
TPS2377	 SOIC (D) 8	Download	Download
	 TSSOP (PW) 8	Download	-

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software [ZIP: 62MB](#)

Step 2: Download the Symbol and Footprint .bzl file.

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Technical Documents

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
 PMP717 Bill of Materials (Rev. A)		PDF	32	11 Jul 2005	276
PMP717 Schematic (Rev. A)		PDF	96	11 Jul 2005	516

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