Power for Altera Cyclone V (Cyclone 5) SOC

(ACTIVE) PMP8571

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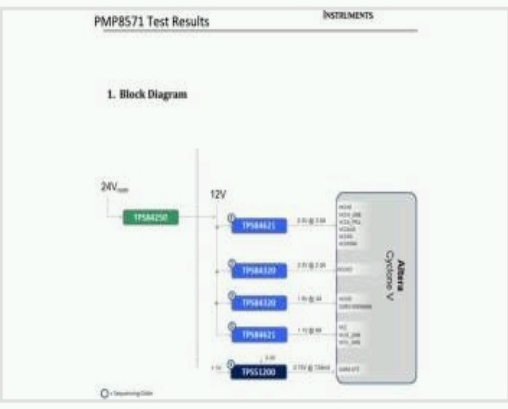
Description

PMP8571 is an easy to use power solution designed using integrated inductor power modules for Altera's Cyclone 5 FPGA. This design used TPS84621 and TPS84320 along with TPS51200 to generate 5 rails to power the FPGA.



Block Diagram Altera Cyclone V

TI Devices (3)

Get more information on the TI products in this reference design.

Part Number	Name	Product Family
TPS51200	3A Sink/Source DDR Termination Regulator w/ VTTREF Buffered Reference for DDR2, DDR3, DDR3L and DDR4	Power Management
TPS84320	4.5-V to 14.5-V Input, 3-A Synchronous Buck, Integrated Power Solution	Non-Isolated Module
TPS84621	2.95-V to 14.5-V Input, 6-A Synchronous Buck, Integrated Power Solution	Non-Isolated Module

Bill of Materials

Find the complete list of components in this reference design.

Download BOM

CAD/CAE Symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS51200	VSON (DRC) | 10	Download	-
TPS84320	B1QFN (RUQ) | 47	Download	-
TPS84621	B1QFN (RUQ) | 47	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 .bxl file.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8571 Test Result		PDF	3201	27 Mar 2013	113

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8571 BOM		PDF	86	27 Mar 2013	106
PMP8571 Schematic		PDF	255	27 Mar 2013	159

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