Altera Arria V GX FPGA Power Solution Reference Design

(ACTIVE) PMP9449 No reviews yet. Add your review and give us feedback

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Description

The PMP9449 reference design provides all the power supply rails necessary to power Altera's Arria® V GX family of FPGAs. It utilizes a TPS38600 to monitor the input supply and provide power on sequencing. This design features low cost, small footprint discrete ICs and is powered from a single 5V input.

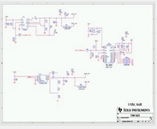
Features

- Provides all the power supply rails needed for an Altera® Arria® V GX FPGA
- Design optimized to support a 5V input
- On board power sequencing
- Low cost discrete solution
- Small footprint

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Schematic/Block Diagram

Quickly understand overall system functionality.



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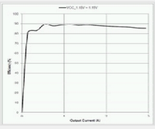

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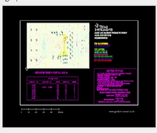
Design Files

Download ready-to-use system files to speed your design process. Get Viewer.



Download Design Files

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

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Part Number	Status
PMP9449: TSW14J50EVM	ACTIVE

TI Devices (6)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LP5900	Ultra Low Noise, 150mA Linear Regulator for RF/Analog Circuits Requires No Bypass Capacitor	Linear Regulator (LDO)	Sample & Buy	View Design Kits & Evaluation Modules
TPS51200	3A Sink/Source DDR Termination Regulator w/ VTTREF Buffered Reference for DDR2	Power Management	Sample & Buy	View Design Kits & Evaluation

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CAD/CAE symbols

Part #	Package | Pins	CAD File [.bxl]	STEP Model [.stp]
LP5900	DSBGA (YZR) | 4	Download	-
	WSON (NGF) | 6	Download	Download
TPS51200	VSON (DRC) | 10	Download	-
TPS62080	WSON (DSG) | 8	Download	-
TPS62085	VSON (RLT) | 7	Download	-
TPS62230	USON (DRY) | 6	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
PMP9449 Test Results		PDF	469	08 Aug 2014	17

Design Files (3)

Title	Abstract	Type	Size [KB]	Date	Views
PMP9449 CAD Files		ZIP	940	08 Aug 2014	24
PMP9449 BOM		PDF	77	08 Aug 2014	46
PMP9449 Schematic		PDF	205	08 Aug 2014	85

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