Flybuck Triple Output with Buck regulator and LDO, 24 - 42V input

(ACTIVE) PMP5548.1

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Description

The PMP5548 is a buck converter with a secondary winding coupled with the main inductor. This winding supplies 6V that are added to the 6V output thus generating 12V. A 3.3V further output is derived from the main 6V output by means of an LDO.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5548.1
Vin (Max) (V)	42
Vin (Min) (V)	24
Vout (Nom) (V)	6
Iout (Max) (A)	.05
Output Power	.3
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Flybuck

TI Devices (2)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS54160	3.5V to 60V Input, 1.5A Step-Down Converter with Eco-Mode	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules
TPS79933	Single Output LDO, 200mA, Fixed(3.3V), Low Quiescent Current, Low Noise, High PSRR	Linear Regulator (LDO)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS54160	HVSSOP (DGQ) | 10	Download	Download
TPS79933	SOT (DDC) | 5	Download	-
	DSBGA (YZU) | 5	Download	-
	WSON (DRV) | 6	Download	-

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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
PMP5548 Test Results		PDF	175	10 Nov 2010	27

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5548 Schematic		PDF	56	10 Nov 2010	55
PMP5548 BOM		PDF	19	10 Nov 2010	27

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