Dual Buck (1V @ 4A)

(ACTIVE) PMP4848.4

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Description

This design implements three buck and one sync buck converters with an overall system efficiency of 87%. Possible applications include set-top boxes, telecom and automotive.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4848.4
Vin (Max) (V)	14
Vin (Min) (V)	13
Vout (Nom) (V)	1
Iout (Max) (A)	4
Output Power	4
Isolated/Non-Isolated	Non-isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (3)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS40190	Low Pin Count Synchronous Buck DC/DC Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules
TPS55386	4.5V to 28V Input, Dual 3A Outputs, 600kHz Step-Down Converter with External Compensation	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules
TPS64202	Adjustable, up to 3A, 95% Efficient Step-Down Controller, 20uA, SOT-23	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS40190	VSON (DRC) | 10	Download	-
TPS55386	HTSSOP (PWP) | 16	Download	Download
TPS64202	SOT (DBV) | 6	Download	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
PMP4848 Test Results		PDF	1382	15 Aug 2011	17

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4848 BOM		PDF	63	01 Aug 2011	20
PMP4848 Schematic		PDF	81	01 Aug 2011	21

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