

5V Input Dual Sync Buck (1.8V@ 1A)

(ACTIVE) PMP5136.2

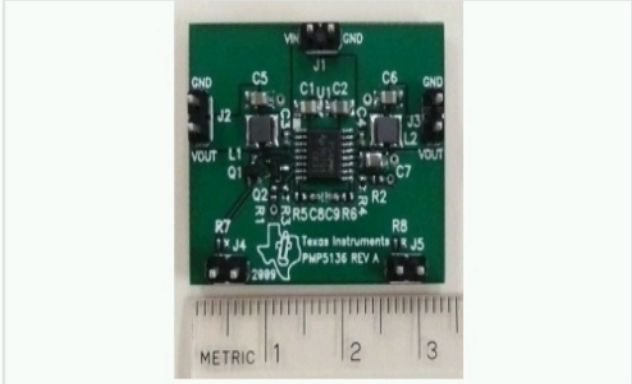
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Description

This reference design uses the TPS54292 dual synchronous buck converter to generate 3.3V and 1.8V outputs from a 5V input. Both outputs can deliver up to 1A. With ceramic output capacitors, this design offers a low cost, efficient and compact solution.

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Dual Synchronous Buck Converter Reference Design Board

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

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5136.2
Vin (Max) (V)	5.5
Vin (Min) (V)	4.5
Vout (Nom) (V)	1.8
Iout (Max) (A)	1
Output Power	1.8
Isolated/Non-Isolated	Non-isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (1)

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
TPS54292	4.5V to 18V Input, 1.5/2.5A Dual Synchronous Step-Down SWIFT™ Converter	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
TPS54292	HTSSOP (PWP) 16	Download	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
PMP5136 Test Results		PDF	1777	15 Aug 2011	9

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5136 BOM		PDF	59	02 Aug 2011	14
PMP5136 Schematic		PDF	43	02 Aug 2011	11

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