Buck, Linear (3.3V @ 50mA) for Fleet Management

(ACTIVE) PMP2807.4

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Description

This is a 4.2V, 2A lithium battery charging system off the wide 7V to 42V automotive range. TPS40200 plus external FET switcher provides 5V @ 3A. BQ24070 is the battery charger. TPS64203 switcher plus external FET each used to provide 3.3V and 1.8V. TPS73033 and TPS73018 linear regulators provide low noise 3.3V and 1.8V outputs.

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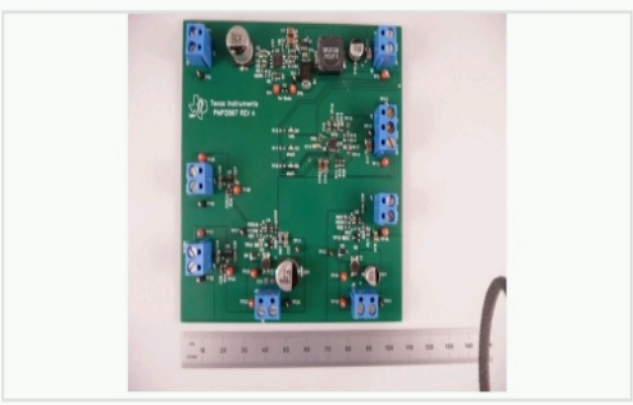

Top view

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

	PMP2807.4
Vin (Max) (V)	4.4
Vin (Min) (V)	3.5
Vout (Nom) (V)	3.3
Iout (Max) (A)	.05
Output Power	.165
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Linear Regulator

TI Devices (5)

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
BQ24070	Li-Ion Charger with Dynamic Power-Path Management, Output regulated to 4.4V	Battery Management Products	Sample & Buy	View Design Kits & Evaluation Modules
TPS40200	Wide Input Non-Synchronous Buck DC/DC Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
BQ24070	VQFN (RHL) | 20	Download	-
TPS40200	SOIC (D) | 8	Download	Download
	VSON (DRB) | 8	Download	-
TPS64203	SOT (DBV) | 6	Download	Download
TPS73018	SOT (DBV) | 5	Download	Download
	DSBGA (YZQ) | 5	Download	-
TPS73033	SOT (DBV) | 5	Download	Download
	DSBGA (YZQ) | 5	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
PMP2807 TEST RESULTS		PDF	1212	17 Jan 2011	27

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP2807 BOM		PDF	23	17 Jan 2011	40
PMP2807 SCHEMATIC		PDF	168	17 Jan 2011	51

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- PMP7383.2
- PMP3599
- PMP4748

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