Multiphase, Sync Buck, Buck-Boost, Boost for IP Converter (25V @ 1A)

(ACTIVE) PMP3061.5

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Description

PMP3061 is a multiple output power supply that supports a number of different rails. The input for this design is 12V with the following devices and outputs TPS40140 (1.2V@40A), TPS40190 (3.3V@6A), TPS54350 (-5V@200mA), TPS40210 (25V@1A), TPS5430 (-12V@200mA). The supply has a range of topologies also, multiphase sync buck (TPS40140), sync buck (TPS40190), negative output sync buck-boost (TPS54350), boost (TPS40210) and negative output buck-boost (TPS5430).

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Parametrics

	PMP3061.5
Vin (Max) (V)	26
Vin (Min) (V)	22
Vout (Nom) (V)	25
Iout (Max) (A)	1
Output Power	25
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Non Sync

TI Devices (4)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS40140	Stackable 2 Channel Multiphase or 2 Channel Independent Output Controller	DC/DC Switching Regulator	Sample & Buy	View Design Kits & Evaluation Modules
TPS40190	Low Pin Count Synchronous Buck DC/DC Controller	Controller (External	Sample & Buy	View Design Kits & Evaluation

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS40140	VQFN (RHH) | 36	Download	-
TPS40190	VSON (DRC) | 10	Download	-
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	Download	-
TPS54350	HTSSOP (PWP) | 16	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP3061 Test Results		PDF	4258	10 Nov 2010	23

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP3061 BOM		ZIP	32	10 Nov 2010	30
PMP3061 Schematics		ZIP	201	10 Nov 2010	61

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