Isolated Flyback for Industrial Applications (5V @ 100mA)

(ACTIVE) PMP5515.2

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Description

This reference design is a multi-output output isolated flyback, working from universal line. The main regulated output is 3.3V@350mA; the 5V and 12V outputs are regulated by means of linear regulators and the 24V output has been generated with a small charge pump. The converter takes advantage of the cascode-flyback topology and quasi-resonant working mode to deliver low EMI and good efficiency at light load.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5515.2
Vin (Min) (V)	85
Vin (Max) (V)	265
Vout (Nom) (V)	5
Iout (Max) (A)	.1
Output Power	.5
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Non Sync

TI Devices (2)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TLV431A	Low Voltage Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
UCC28610	12-65W Green-mode Flyback Power Supply Controller	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TLV431A	SOT (DBZ) | 3	Download	Download
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Step 1: Download and install the Ultra Librarian software ZIP: 62MB

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5515 Test Results		PDF	728	10 Nov 2010	21

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5515 Schematic		PDF	77	10 Nov 2010	48
PMP5515 BOM		PDF	22	10 Nov 2010	26

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