Sync Buck for Intel Atom E6xx Tunnel Creek (1V @ 5A)

(ACTIVE) PMP5855.1

Description & Features | Technical Documents | Support & Community | Order Now

View the Important Notice for TI Designs covering authorized use, intellectual property matters and disclaimers.

Description

The PMP5855 is designed to use a regulated 12V (8V-14V) bus to produce 10 regulated outputs in sequence for an Atom E6xx Tunnel Creek Power System. The PMP5855 is specially designed to demonstrate the TPS59610 Atom E6xx CPU and GPU Vcore regulators while providing a number of test points to evaluate their static and dynamic performance. PMP5855 provides hotswap protection and input OR-ing.

TI's Standard Terms and Conditions for Evaluation Modules apply.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5855.1
Vin (Min) (V)	8
Vin (Max) (V)	14
Vout (Nom) (V)	1
Iout (Max) (A)	5
Output Power	5
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous Buck- Integrated Switch

TI Devices (24)

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
TPS51100	3A Source/Sink DDR terminator Regulator	Power Management	Sample & Buy	View Design Kits & Evaluation Modules
TPS51120	Dual Current Mode, Synch Step-Down Controller With 100-mA Standby Reg	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation

Show More

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS51100	HVSSOP (DGQ) | 10	Download	Download
TPS51120	VQFN (RHB) | 32	Download	-
TPS59124	VQFN (RGE) | 24	Download	-
TPS715A33	WSON (DRV) | 6	Download	-
	VSON (DRB) | 8	Download	-
TPS74801	VSON (DRC) | 10	Download	-
	VQFN (RGW) | 20	Download	-
TPS76301	SOT (DBV) | 5	Download	Download
TPS76301-Q1	SOT (DBV) | 5	Download	Download
TPS76316	SOT (DBV) | 5	Download	Download
TPS76316-Q1	SOT (DBV) | 5	Download	Download
TPS76318	SOT (DBV) | 5	Download	Download
TPS76318-Q1	SOT (DBV) | 5	Download	Download
TPS76325	SOT (DBV) | 5	Download	Download
TPS76325-Q1	SOT (DBV) | 5	Download	Download
TPS76327	SOT (DBV) | 5	Download	Download
TPS76328	SOT (DBV) | 5	Download	Download
TPS76330	SOT (DBV) | 5	Download	Download
TPS76330-Q1	SOT (DBV) | 5	Download	Download
TPS76333	SOT (DBV) | 5	Download	Download
TPS76333-Q1	SOT (DBV) | 5	Download	Download
TPS76338	SOT (DBV) | 5	Download	Download
TPS76350	SOT (DBV) | 5	Download	Download
TPS76350-Q1	SOT (DBV) | 5	Download	Download
UCC37324	SOIC (D) | 8	Download	Download
	HVSSOP (DGN) | 8	Download	Download
	PDIP (P) | 8	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.

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5855 Test Results		PDF	542	18 May 2011	16

Design Files (8)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5855 PCB (Daughter Card)		PDF	846	18 May 2011	16
PMP5855 PCB (EVM)		PDF	1549	18 May 2011	14
PMP5855 Gerber (Daughter Card)		ZIP	336	18 May 2011	9
PMP5855 Gerber (EVM)		ZIP	724	18 May 2011	12
PMP5855 BOM (Daughter Card)		PDF	25	18 May 2011	27
PMP5855 BOM (EVM)		PDF	37	18 May 2011	26
PMP5855 Schematic (Daughter Card)		PDF	111	18 May 2011	27
PMP5855 Schematic (EVM)		PDF	466	18 May 2011	29

Support & Community

TI E2E™ community

As a member of my.TI you can join the TI E2E™ Community where you can ask questions, share ideas and collaborate with fellow engineers and TI experts

Contents are provided "AS IS" by the respective TI and Community contributors and do not constitute TI specifications. See Terms of use.

Engage in the Community

- Amplifiers
- Broadband RF/IF & Digital Radio
- Clocks & Timers
- Data Converters
- DLP® & MEMS
- Interface
- Logic
- Power Management
- Wireless Connectivity

Wikis

Visit the TI Wiki

Videos

Leading source for power reference designs

TI's industry leading PowerLab™ reference design library has now evolved into TI Designs. This video explains how to use the enhanced selection tool within TI Designs to quickly and efficiently search

Posted: 08-Oct-2014
Duration: 1:00
Views: 707
Tags: power management, power reference design, power management solutions, powerlab, power management designs, power design solutions, ti designs-power, ti designs, portable powerline power

Click here to jump start your design with TI Designs for Power Management

Related Videos

Leading source for power reference designs

Power Tip 58: Power supply grounding; which camp are you in?

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP5832.7
- PMP7877.6
- PMP3199.1
- PMP7877
- tps61175evm-588

TI is a global semiconductor design and manufacturing company. Innovate with 100,000+ analog ICs and embedded processors, along with software, tools and the industry's largest sales/support staff.

© Copyright 1995-2014 Texas Instruments Incorporated. All rights reserved.
Trademarks | Privacy policy | Terms of use | Terms of sale