Sync Buck for Intel Atom E6xx Tunnel Creek (1.5V @ 350mA)

(ACTIVE) PMP5922.7

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

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

Description

PMP5922 is a complete 3.3V/5VIN input Intel Atom Tunnel Creek Power System. For the core voltages the TPS59610 controller with the dual CSD86330Q3D MOSFET is used. The 1.2V IOH uses the TPS53311 converter, the DDR2 memory uses the TPS51916 converter and for the 1.05V I/O the TPS53219 controller plus dual CSD86330Q3D is used. For 4 remaining low current outputs LDOs are used.

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

	PMP5922.7
Vin (Max) (V)	1.9
Vin (Min) (V)	1.7
Vout (Nom) (V)	1.5
Iout (Max) (A)	.35
Output Power	.525
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (8)

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
CSD86330Q3D	Synchronous Buck NexFET™ Power Block MOSFET Pair	Power MOSFET	Sample & Buy	View Design Kits & Evaluation Modules
TPS51916	DDR2, DDR3 and DDR3L Memory Power Solution Synchronous Buck Controller	Power Management	Sample & Buy	View Design Kits & Evaluation

Show More

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CSD86330Q3D	LSON-CLIP (DQZ)| 8	Download	-
TPS51916	WQFN (RUK) | 20	Download	-
TPS53219	VQFN (RGT) | 16	Download	-
TPS53311	VQFN (RGT) | 16	Download	-
TPS71701	SOT (DCK) | 5	Download	Download
	WSON (DRV) | 6	Download	-
TPS71725	SOT (DCK) | 5	Download	Download
TPS72015	DSBGA (YZU) | 5	Download	-
	WSON (DRV) | 6	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
PMP5922 Test Results		PDF	512	16 Sep 2013	43

Selection Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
Power, Interface and Switch Solutions for Micron Memory (Rev. A)		PDF	265	18 Jun 2013	554

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5922 PCB		PDF	1291	16 Sep 2013	20
PMP5922 Gerber		ZIP	416	16 Sep 2013	15
PMP5922 BOM		PDF	68	16 Sep 2013	47
PMP5922 Schematic		PDF	306	16 Sep 2013	55

Support & Community

TI E2E™ 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

Now Playing

Leading source for power reference designs

Intel Bay Trail CPU Power Solution TPS59641 Step-Down Controller

Play

Complete Power Solution for Intel Bay Trail CPU

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- tps65270evm
- tps82693evm-207
- tps22922evm
- PMP8005
- tps2378evm-105

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