Sync Buck for Intel Atom E6xx Tunnel Creek (1.1V @ 1.6A)

(ACTIVE) PMP5922.2

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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.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Parametrics

	PMP5922.2
Vin (Max) (V)	5.25
Vin (Min) (V)	4.75
Vout (Nom) (V)	1.1
Iout (Max) (A)	1.6
Output Power	1.76
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (8)

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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

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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	-

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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
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

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