Battery Runtime Extension for GSM High Power Applications Reference Design

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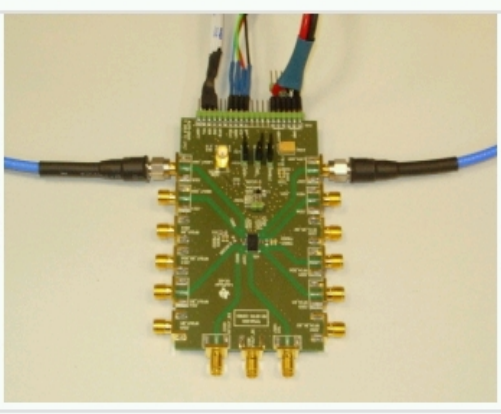

Battery Runtime Extension for GSM High Power Applications

Description

In this Reference Design, the TPS61280 Boost Converter with integrated Bypass Switch powers a Radio Frequency Power Amplifier (RFPA) in GSM Mode. The TPS61280 RFPA Combo Board enables longer battery runtime by applying a user defined minimum supply voltage for a Radio Frequency system. The whole board features a pre-developed and tested RF compliant power application.

Features

- Pre-Developed RF Power Application
- Longer Battery Runtime
- RF Compliant System
- Avoids system load dump
- Extended Voltage Range for 2G High Power Applications
- Fully 2G tested evaluation board for GSM RF Applications

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

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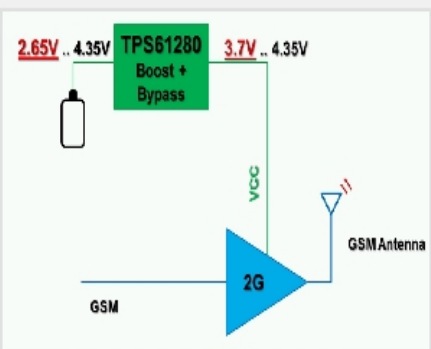
Schematic/Block Diagram

Quickly understand overall system functionality.



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Simulation Data

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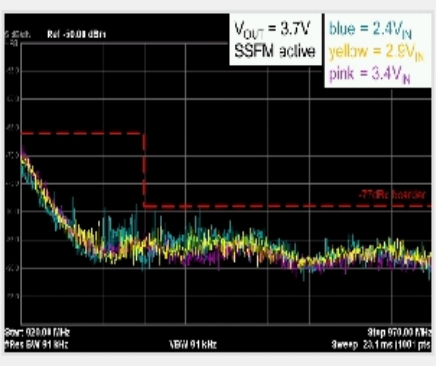

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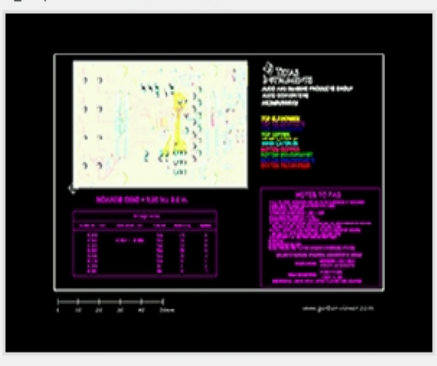
Design Files

Download ready-to-use system files to speed your design process. Get Viewer.



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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

TI Devices (1)

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
TPS61280	Battery front-end DC/DC converter, Synchronous Boost-bypass. 1S Li-Ion,Ni-Rich,Si-Anode	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP9751 Test Results		PDF	1283	05 Mar 2014	29

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP9751 PCB		PDF	2494	20 May 2014	18
PMP9751 Gerber		ZIP	157	05 Mar 2014	10
PMP9751 BOM		PDF	79	05 Mar 2014	30
PMP9751 Schematic		PDF	178	05 Mar 2014	38

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