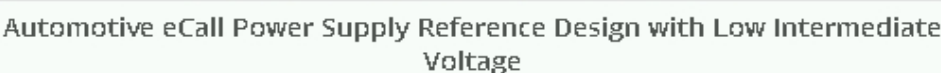


[Description & Features](#)
[Technical Documents](#)
[Support & Community](#)
[Order Now](#)

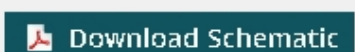
This reference design includes a complete power management solution for a standalone emergency call (eCall) system in an automotive environment. The circuit is supplied directly from the car battery rail. It also manages a backup battery to power the eCall system while the car battery rail is not available. It includes power path management which routes the available power rail directly to four DC/DC converters which are supplying the required functional blocks of the eCall system. The solution is optimized to operate at maximum efficiency while powered from the backup battery.



- Complete power solution for an automotive eCall system
- Operating input voltage range up to 40V
- Provides supply voltage for all required eCall functional blocks
- Up to 87% total efficiency while operating at backup power
- Up to 90% total efficiency in standby at backup power
- All DC/DC converters used can operate at switching frequencies above 2MHz

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

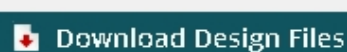
Quickly understand overall system functionality.



Get results faster with test and simulation data that's been verified.



Download ready-to-use system files to speed your design process. [Get Viewer.](#)



Find the complete list of components in this reference design.

	PMP9769.4
Vin (Min) [V]	5
Vin (Max) [V]	40
Vout (Nom) [V]	9
Iout (Max) [A]	1
Output Power [W]	9
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Integrated Switch

Order samples, get tools and find more information on the TI products in this reference design.

[Show More](#)

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
BQ25071	WSON (DQC) 10	Download	Download
CSD16412Q5A	VSONP (DQJ) 8	Download	-
LM43603-Q1	HTSSOP (PWP) 16	Download	Download
TL331-Q1	SOT (DBV) 5	Download	Download
TPS62290-Q1	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 ·](#)

User guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 PMP9769 Test Results		PDF	176	13 Jan 2016	95

Design files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP9769 Gerber		ZIP	275	13 Jan 2016	25
 PMP9769 PCB		PDF	1151	13 Jan 2016	43
 PMP9769 BOM		PDF	89	13 Jan 2016	47
 PMP9769 Schematic		PDF	88	13 Jan 2016	232

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

Other Support

- TI E2E Community
- **Contact Technical Support**

Your History

Products You Recently Viewed

- PMP9769.3
- PMP11414.4
- PMP11414.3
- PMP11414.2
- PMP11180.5