# Automotive Range Boost Converter Drives Two Strings of LEDs

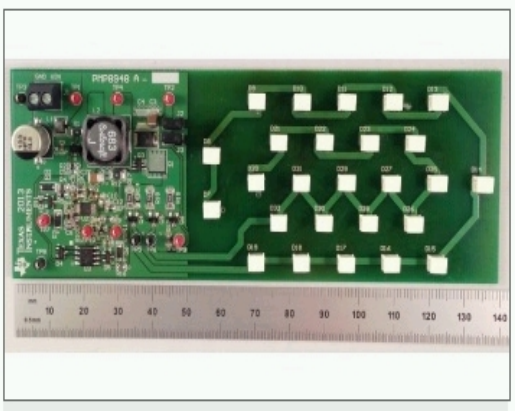
Status: ACTIVE

PMP8948

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

## Description

This wide input voltage range boost operates from an input of 9V - 32V and regulates current in two strings of 13 LEDs. Additionally, a second control loop monitors and regulates the input current during drop outs or faults. This low cost design operates at greater than 94% efficiency.



Automotive Range Boost Converter Referene Design Board

## Technical Documents

### User Guides (2)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| PMP8948 PCB | | PDF | 1956 | 02 Jul 2013 | 21 |
| PMP8948 Test Report | | PDF | 1025 | 24 Jun 2013 | 23 |

### More Literature (2)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| PMP8948 Bill of Materials | | PDF | 21 | 24 Jun 2013 | 22 |
| PMP8948 Schematic | | PDF | 141 | 24 Jun 2013 | 29 |

## Related Products

### Software (1)

PMP8948 Gerber
(ZIP, 198 KB) 22 views, 02 Jul 2013

### TI Devices (3)

| Part Number | Name | Product Family |
|---|---|---|
| INA169 | High-Side Measurement Current Shunt Monitor, Current Output | High Common Mode Voltage (> = 60V) |
| TLV272 | 550-uA/Ch 3-MHz Rail-to-Rail Output Operational Amplifier | Operational Amplifier (Op Amp) |
| TPS40211 | Wide Input Range Current Mode Boost Controller | Power Management |

## Support and Community

### Wikis

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

## Training & Events

| Name | Type | Available During |
|---|---|---|
| Multi-Day PFC Design Workshop (Analog & Digital) sponsored by Biricha Digital Power Ltd. | In-Person | 03 Dec 2013 - 05 Dec 2013 |
| Multi-Day PFC Design Workshop (Analog & Digital) sponsored by Biricha Digital Power Ltd. | In-Person | 03 Dec 2013 - 05 Dec 2013 |
| In-depth PFC Design Workshop | In-Person | 12 Nov 2013 - 14 Nov 2013 |
| Digital Power Multi-Day Workshop | In-Person | 05 Nov 2013 - 07 Nov 2013 |
| WEBENCH® Power Designer - Electrical Simulation | Recorded Content | On Demand |

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## Customer Tags

No Tags are Available for this Part Number

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## Other Support

- TI E2E Community
- Contact Technical Support

## Your History

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- PMP8956
- PMP8970
- PMP9003
- PMP9018
- PMP9028



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