

MCP7383X Li-Ion System Power Path Management Reference Design

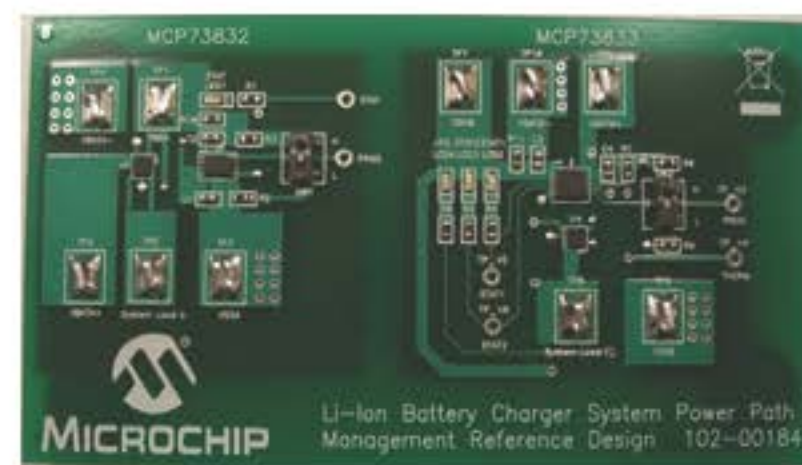
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Part Number: MCP7383XRD-PPM

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Portable electronics has played an important role in modern era. Due to the natural characteristics of Li-Ion / Li-Polymer batteries, they are the most popular power sources for mobile devices. However, extra care in design is always important to implement Li-Ion / Li-Polymer batteries. System Power Path Management allows end-users to charge their batteries without interruption.

This reference design is developed to assist product designers in reducing product design cycle and time by utilizing Microchip's favorite stand-alone Li-Ion battery charge management controllers with system power path management.


[Features](#)
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- Load sharing system power path management that support charging single cell Li-Ion battery and system load at the same time without affecting charging algorithm of Microchip's stand-alone charge management controllers.
- The system load is supported by Li-Ion battery when input power source is removed
- Blue LED indicates charge status
- Additional Red LED to indicate Power-Good (PG) and Green LED to indicate charge complete (Available from MCP73833)
- Dip Switch to select programmable fast charge current between 1000 mA (H) and 50 mA (L) for MCP73833 and 400 mA (H) and 25 mA (L) for MCP73832
- Available THERM pin on the MCP73833 for temperature monitoring with a thermistor. It is disabled by default and can be enabled to use with NTC thermistor

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AppNotes	Last Updated	Size	
AN1149 - Design A Load Sharing System Power Path Management with Microchip's Stand-Alone Li-Ion Battery Charger	7/15/2008 1:59:19 PM	234KB	
Documents	Last Updated	Size	
MCP73831/2 Data Sheet	7/14/2014 4:21:55 PM	823KB	
Stand-Alone Linear Li-Ion / Li-Polymer Charge Management Controller Data Sheet	5/4/2009 2:47:57 PM	1MB	
MCP7383X Li-Ion System Power Path Management Reference Design	7/16/2008 9:00:49 AM	602KB	
MCP7383X Li-Ion System PPM Reference Design Gerbers	7/15/2008 2:39:54 PM	188KB	