

MCP1631HV Multi-Chemistry Battery Charger Reference Design

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Part Number: MCP1631RD-MCC1

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The MCP1631 Multi-Chemistry Battery Charger Reference Design is a complete stand-alone constant current battery charger for NiMH, NiCd or constant current / constant voltage for Li-Ion battery packs. When charging NiMH or NiCd batteries, the reference design is capable of charging one, two, three or four batteries connected in series. If Li-Ion chemistry is selected, the board is capable of charging one or two series batteries. This board utilizes Microchip's MCP1631HV (high-speed PIC® MCU PWM TSSOP-20) and PIC16F883 (28 pin SSOP). The input voltage range for the demo board is 5.5V to 16V.



Features

Package Contents

- Input Operating Voltage Range:
 - +5.5V to +16V ($V_{IN} > V_{BATT}$)
 - Maximum of 2A Charge Current for single cell Li-Ion
 - Charge NiMH, NiCd or Li-Ion Chemistries
 - Charge 1 or 2 Cell Li-Ion Batteries in Series
 - Charge 1 to 4 Cells of NiMH or NiCd Batteries in Series
 - Select Chemistry and Cells using push buttons
 - ON/OFF switch
 - Charge Status Indication
 - Programmable Charge Profile
 - OV Shutdown
 - Short Circuit Protection

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Documents	Last Updated	Size	
PIC16F882/883/884/886/887 Data Sheet	11/12/2012 4:29:57 PM	6MB	
MCP1631HV Multi-Chemistry Battery Charger Reference Design Firmware	9/7/2010 8:48:27 AM	15KB	
MCP1631/HV/MCP1631VHV High-Speed, Pulse Width Modulator	12/2/2008 3:16:56 PM	565KB	
MCP1631 Multi-Chemistry Battery Charger Reference Design Gerbers	1/11/2008 9:32:23 AM	208KB	
MCP1631 Multi-Chemistry Battery Charger Reference Design	1/11/2008 9:16:35 AM	443KB	