

MCP39F501 Energy Metering & Power Monitoring Demonstration Board

Part Number: ARD00455

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The MCP39F501 Power Monitor Demonstration Board is a fully functional single-phase power monitor. This low-cost design does not use any transformers and requires few external components. The device calculates active power, reactive power, RMS current, RMS voltage, power factor, line frequency and other typical power quantities as defined in the MCP39F501 data sheet. The MCP39F501 Power Monitor Utility software is used to calibrate and monitor the system, and can be used to create custom calibration setups. For some accuracy requirements, only a single point calibration may be needed.



Devices Supported: MCP39F501

Features

Package Contents

- Displays Active, Reactive and Apparent Power, RMS Current, RMS Voltage, Line Frequency, Power Factor and Temperature using PC software
- Event notifications, such as Over Current, Over Power, Over/Under Frequency, Over/Under Temperature, and Voltage Sag/Surge
- Device configuration through PC software, including Event Notifications, Gain Calibration, EEPROM, Calculation Multipliers, and I/O settings
- 120V and 220V operation

Documentation & Software

[Back To Top](#)

Documents	Last Updated	Size	
MCP39F501 Energy Metering & Power Monitoring Demo Board (ARD00455) Schematics	4/28/2015 9:19:24 AM	455KB	
MCP39F501 Energy Metering & Power Monitoring Demo Board Software v2.2	8/19/2014 3:21:09 PM	6MB	
MCP39F501 Power Monitor Demo Board User's Guide	2/15/2014 8:41:14 AM	817KB	
MCP39F501 Energy Metering & Power Monitoring Demo Board (ARD00455) BOM	12/20/2013 9:10:46 PM	26KB	
MCP39F501 Energy Metering & Power Monitoring Demo Board (ARD00455) Gerbers	12/20/2013 7:54:00 PM	631KB	
MCP39F501	12/18/2013 4:04:04 PM	2KB	



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