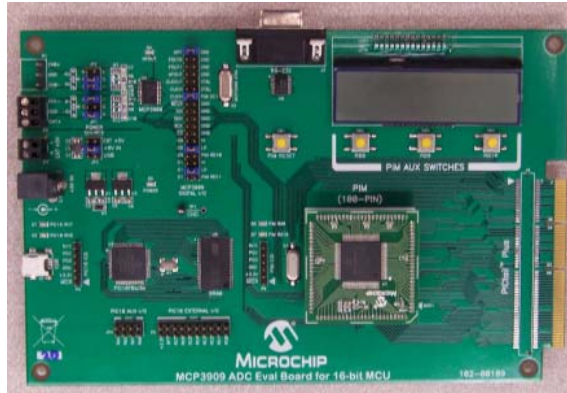


Part Number: MCP3909EV-MCU16

MCP3909 ADC Evaluation Board for 16-Bit MCUs

Devices Supported: MCP3909



Summary Description:

The MCP3909 ADC Evaluation Board for 16-Bit MCUs system provides the ability to evaluate the performance of the MCP3909 dual channel ADC. It also provides a development platform for 16-bit PIC based applications, using existing 100-pin PIM systems compatible with the Explorer-16 and other high pincount PIC demo boards. The system comes with programmed PIC24FJ128GA010 and dsPIC33FJ256GP710 PIM modules that communicate both to on-board LCD and a LabView GUI for both in-circuit and PC signal processing.

Features:

- Dual 16-bit ADC MCP3909 output display using Serial communication to PC Software Interface
- Simultaneous 15 ksps at 81 dB SINAD performance on dual 16-Bit MCP3909 channels
- Spectral Analysis using DFT dsPIC33F calculations, resolution of TBD AH
- System and ADC performance analysis through graphical PC tools showing Noise Histogram, Frequency Domain (FFT), Time domain scope plot, and statistical numerical analysis
- Robust hardware design with analog grounding and analog/digital separation, allowing low noise evaluation of MCP3909 devices. Separate power supplies and power planes - 4 layer board
- Pigtail Plus connectors for Explorer-16 daughter board compatibility