

MCP3551 Delta-Sigma ADC Demo Board

Part Number: MCP3551DM-PCTL

Devices Supported: MCP3551

Summary Description:

The MCP3551 Delta-Sigma ADC Demo Board is designed to demonstrate Microchip Technology's MCP3551 22-Bit Delta-Sigma Analog-to-Digital (ADC) Converter performance using DataView™ software installed on a PC. The demo board can be used with MPLAB® ICD2, PICkit™ 1 Flash Starter Kit, or PICkit™ 2 for developing demonstration/evaluation firmware. Optionally, a second installed MCP3551 can be used with an optional stimulus board (sold separately).

The board is designed to evaluate the MCP3551 with minimum Printed Circuit Board (PCB) noise. The PCB layout practices low-noise design to reduce the signal noise as much as possible in order to demonstrate the 22-Bit performance of the MCP3551.



Features:

- Three precision potentiometers for demonstrating the capabilities of the MCP3551
- On-board PIC18F4550 with USB for DataView communication
- USB interface for connecting to a PC
- DataView™ software with easy-to-read format and data logging
- Three headers/connectors for programming the PICmicro® using any of the following:
 - PICKit™1 Flash Starter Kit
 - PICKit™2
 - MPLAB® ICD2 (debugger and programmer)