Micro Sounder S-100 Sound Effects Generator  
  
This board is centered around the Texas Instruments SN76477 sound effects generator chip. Most mechanical and natural sounds can be constructed from three basic functions: a single frequency, varying frequencies, and random noise. The SN76477 is designed to produce these functions or a combination of them so that custom sounds can be constructed. Parameters to these functions are provided via capacitors, resistors, logic levels and analog voltages.  
The board is comprised of 8 output ports controlling 6 D-to-R networks, 4 capacitor selectors, 2 D-to-A converters, 8 control bits and a spare 8-bit port for external use. Sounds are generated by outputting appropriate values to the appropriate ports.  
The manual includes BASIC source code listings for utilities to experiment and create sounds by varying each parameter until the desired sound is reached. The parameters for a number of pre-configured sounds are provided and it also includes BASIC listings for 2 games that incorporate sounds. With these resources and examples, developing custom sounds for you own projects is not difficult.