Speech Field Development Board

FEATURES

- 5 Volts ±5%, Single Supply Operation
- Expandable to 256K Bits of EPROM
- Supports LPC Synthesis, Formant Synthesis, and Allophone Synthesis
- On Board Crystal Oscillator
- Dimensions: 4" x 6.25"
- Cable Length: 14"

DESCRIPTION

The Speech Field Development System is an EPROM based version of the SP0256 Speech Processor and speech ROMs. It is used to demonstrate and test synthetic speech or complex sounds before they are committed to masked ROM. The SFD2000 emulates up to 256K bits of expansion ROM.
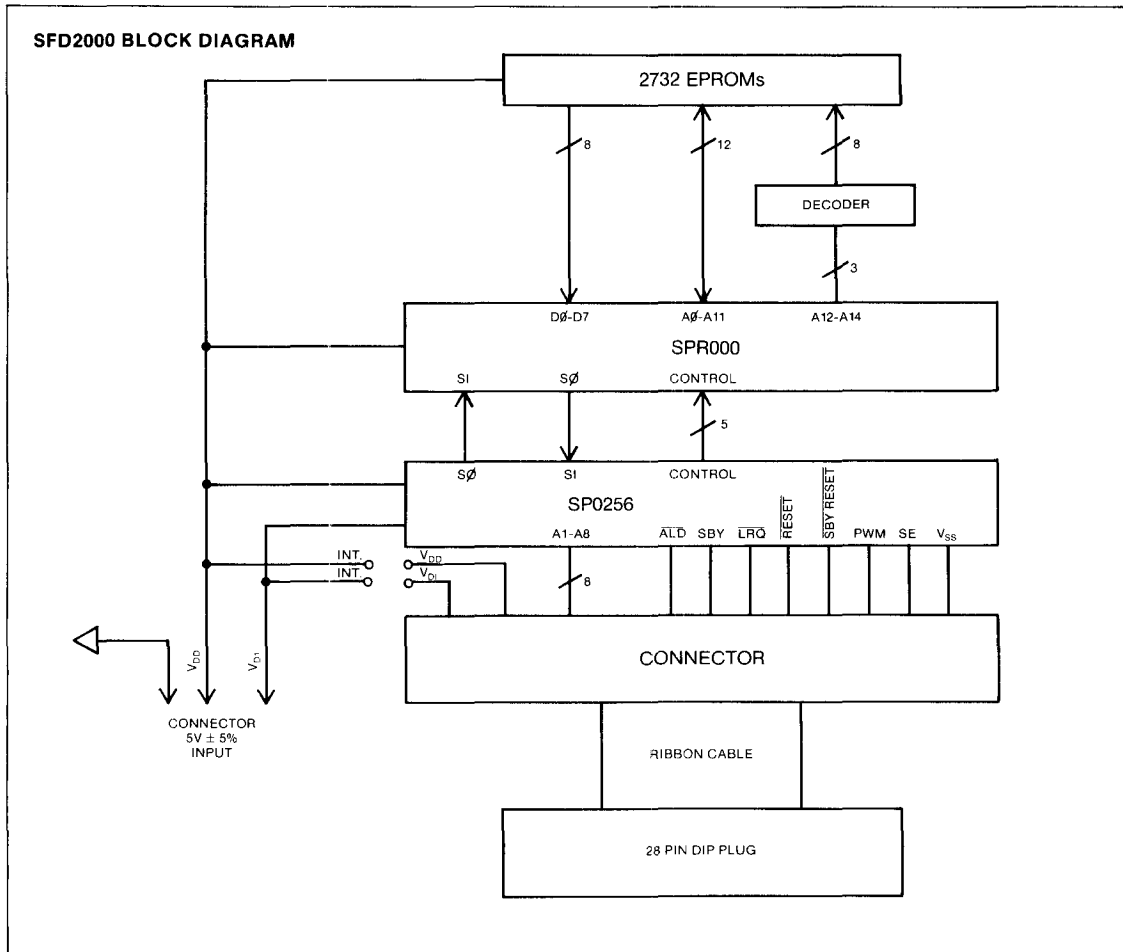
The address, DAC output and control signals are made available on a 28 pin header/cable that connects to the board. Power (V_{D1} and V_{DD}) for the module is supplied via a 3 pin connector or can be strapped for internal operation. The voltage input to V_{D1} and V_{DD} lines must be limited to 5 Volts ±5%.

The SP0256 Speech Processor executes the 8 bits of data and modifies the appropriate parameters of the Vocal Tract Model (VTM) to create the desired sound sequence.

The SFD module comes complete with an SP0256, SPR000 and sockets for eight 2732 EPROMs. A cable is provided to interface the SFD2000 to the user's system.

DATA MANUAL

A complete description of the SFD2000 system is contained in the Speech Field Development Data Manual.

SFD2000 BLOCK DIAGRAM

AUDIO