Arduino Uno DDS Tone Board Hardware Block Diagram

Introduction
This diagram shows the connection between the major hardware components.

DDS Tone Board

Computer — USB — TxRx GND 5V — USB — Arduino Uno

12V

5V
Pin 13
Pin 12
Pin 11
Pin 10

Pin 9
Pin 6
Pin 5
Pin 3
GND

Header Sockets

ATTiny Program 1 Signal

POT — Var. Freq. Signal

State Switch — On-Off State Signal

LED — State LED Signal

DIP Switch — Uno Tone Signal Master

5V

PB2
PB1
PB0
PB5

ATTiny85

PB4 — DDS Tone Output Signal

PB3

ChebyShev Low Pass Filter — 5V

Slide Switch — 5V

HPF — POT.
LPF — POT.
BPF — POT.

AMP — 5V

POT.

Speaker