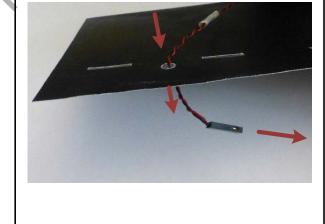
A. Creating the Speaker Housing

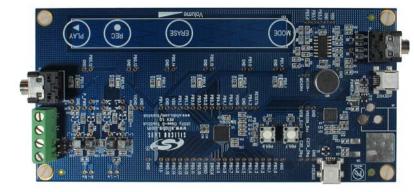
To assemble the speaker housing, use one cylinder cutout and the speaker. The second cylinder cutout is extra in case it's needed.



With the solid black side facing up, push the speaker cable through the round hole and pull it through.



Sev 0.1 10/12



- Class-D ToolStick Quick Start Guide (this document)
 - 2 x cylinder cutouts
 - 1 x 1 W speaker
 - 1 x male-to-male stereo cable
 - 2 x mini USB cables
 - Class-D ToolStick board

The Class-D ToolStick kit contains the following:

SAR ADCs, enhanced programmable counter array (EPCA), and capacitive sensing.

the integrated USB 2.0 full-speed transceiver, internal oscillator and phase-locked loop (PLL), up to 300 mA high-drive I/O, dual The Class-D ToolStick demonstrates direct-drive Class-D amplification using the SiM3U1xx high drive I/O. The kit demonstrates

CLASS-D TOOLSTICK KIT QUICK-START GUIDE



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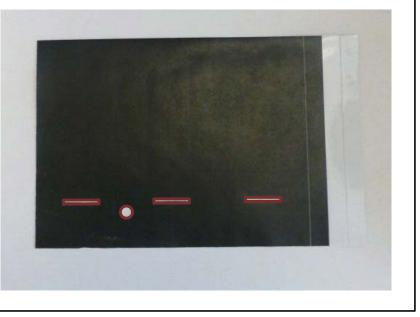
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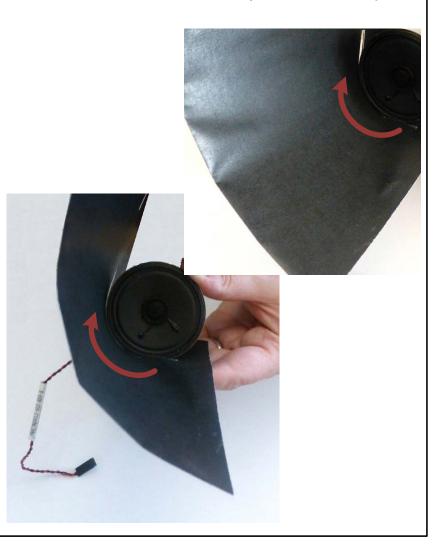
Mailing Address 400 W. Cesar Chavez Austin, TX 78701

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Pop out all of the tabs in the cylinder cutout.

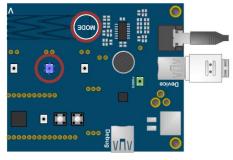


Place the edges of the speaker in the small rectangular tabs and roll the cylinder around the speaker.



blue LED indicates the current mode. switch to the other modes. The single Press and release the MODE button to

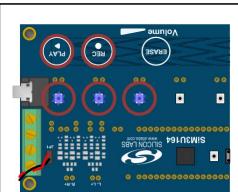
Mode 4 = Play/Record Flash Mode 3 = Play Prerecorded Flash Action Section 3 and 4 a Mode 1 = Stereo Audio Jack



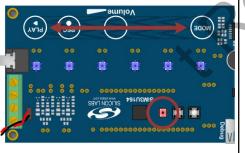
.gniyelq. and the blue LED (DS6) turns on when , plue LED (DS5) turns on when recording, button to play the recorded message. The **REC button to record and the PLAY** In Play/Record Flash mode, press the

6

9



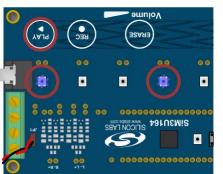
volume level. slider. The blue LEDs indicate the gnisnes evitiosqsD edt no nwob Change volume by sliding up and

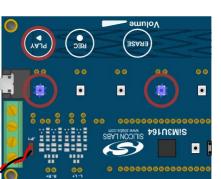


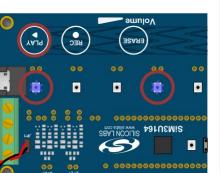
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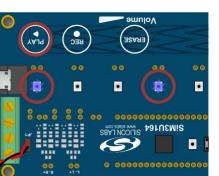
input source signal is too loud. Vote: The red LED (DS8) indicates when the

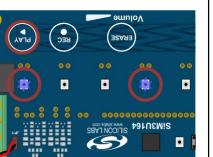
on when playing. Flash contents. The blue LED (DS6) turns PLAY button to hear the prerecorded 8 In Prerecorded Flash mode, press the











Application Notes:

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- AN726: Class-D ToolStick User's Guide
- AN670: Getting Started with the Silicon Labs Precision32 AppBuilder
- Au667: Getting Started with the Silicon Labs Precision32 IDE
- AN664: Precision32 CMSIS and HAL User's Guide

AU672: Precision32 si32Library Overview

Download the Precision32 software:

Class-D ToolStick Landing Page: http://www.silabs.com/32bit-software

http://www.silabs.com/toolstickclassd

http://www.liabs.com/Support%20Documents/TechnicalDocs/SiM3URandricthat SiM3U1xx Datasheet:

:IsunsM sonereference Manual:

fbq.MA_xxfSEMi8 -_xxfUEMi2\econlspintsTternstremuso002%tropqu2\mos.edslie.www\\:qth

MCU Knowledge Base:

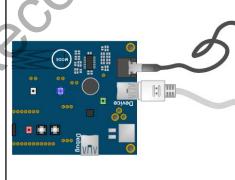
sage Base Support →Knowledge Base

Contact an Applications Engineer:

Quality Documents: tropport for the state of the state of

villeup/moo.edelie.www

-(19yeld). end to an input device (phone or MP3 in the kit to the jack (J1) and the other the male-to-male 3.5 mm stereo cable jack input mode. Attach one end of The default mode (Mode 1 is stereo



Play or record music using software. the device appears in Device Manager. cable, if it's not already connected. Ensure connector to the PC using the mini USB In USB mode, connect the Device USB



recording program is open. Note: Mode changing is disabled while a sound Utility Class-D ToolStick

Note: Check volumes in the System Mixer and

C. Relevant Documentation



in the application.

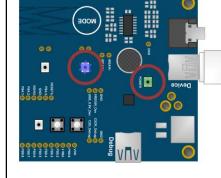
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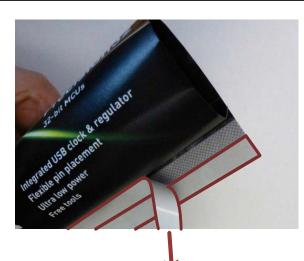
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the board is ready. Mode 1 LED (DS1) will turn on when on when power is applied. The blue The green POWER LED (DS7) turns

Nem





Press firmly to ensure a good hold.

the outside flap and stick the outside flap down.

Peel off the backing from the adhesive strips on

The speaker housing is now complete.



either USB connector (Debug or Power the Class-D RD board through

3

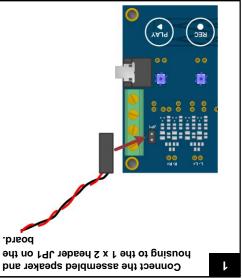


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B. Using the Demo



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