

LM4930 Evaluation Package Instructions

The LM4930 Evaluation Package includes the following:

LM4930 Demoboard
I²C Card
I²C Cable
Software (Form Website)

Hardware Installation Instructions:

- 1) Plug the I²C Card to the parallel port (LPT1) of the PC.
- 2) Connect the LM4930 Demoboard to the I²C Card with the I²C Cable. Refer to the Silkscreen for the corresponding pin locations of SCL, SDA, extV_{DD} and GND. The I²C Cable uses the following color coding scheme:

(Green – SCL; Blue – NC; Orange – SDA)
(White/Green – extV_{DD}; White/Blue – GND)

SCL (pin2)	NC (pin4)	SDA (pin6)		Green	Blue	Orange
extV _{DD} (pin1)	GND (pin3)	NC (pin5)		White/Green	White/Blue	

I²C Silkscreen Pinout (Eval board/ I²C Card)

Code for I²C Cable

Location of I²C
Interface on
Eval Board

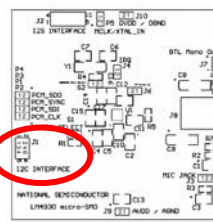


FIGURE 12. Pin Markings for LM4930 demo board

I²C Card Instructions:

- 1) Attach the I²C Card to the PC's parallel port using the I²C Card's male DB-25 connector.
- 2) The LED indicator on the I²C card will light up when a proper connection is made.
- 3) Attach the I²C Cable to the I²C Card's corresponding 6-pin header.
- 4) The I²C Card can be powered up either through the PC's parallel port (pcVdd) or the LM4930 Demoboard's power supply (extVdd).

- 5) For pcVdd operation, the slide switch on the I²C Card must be set to the pcVdd position.
- 6) For extVdd operation, the slide switch on the I²C Card must be set to the extVdd position.

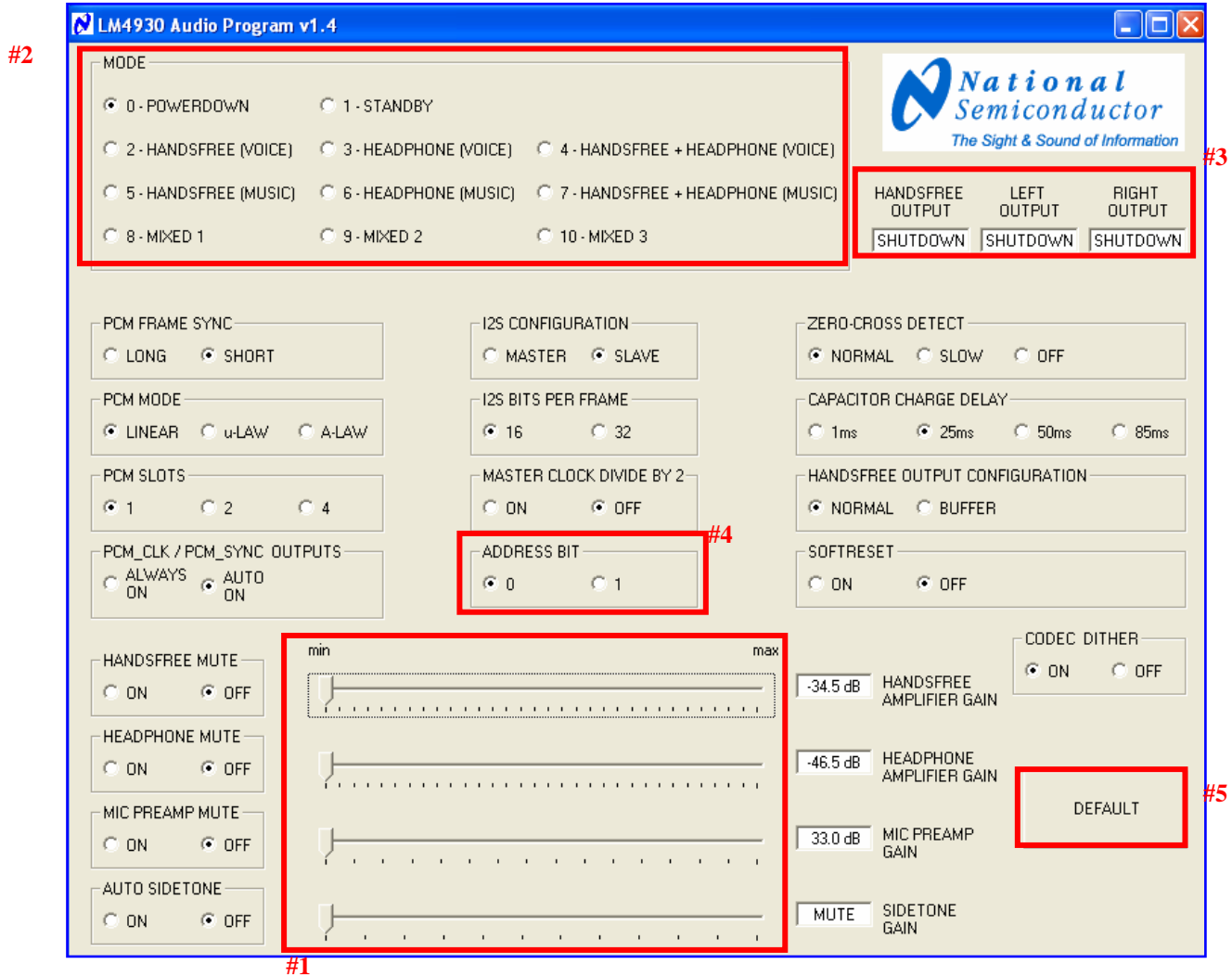
LM4930 Demoboard Instructions:

- 1) The supply pin, ground pin, inputs, and outputs are all easily accessed through the header pins of the LM4930 Demoboard. Each header pin is labeled accordingly on the Demoboard's Silkscreen layer.
- 2) Attach the I²C Cable to the LM4930 Demoboard's corresponding 6-pin header.
- 3) Connect a power supply to the Vdd and GND pin of the LM4930 Demoboard for power-up.
- 4) Connect input through the I2S interface (pin designations on datasheet)
- 5) More detailed instructions and connection descriptions can be found in the LM4930 datasheet

Software Installation Instructions:

- 1) A Windows95/98/NT/2000/XP operating system is required.
- 2) Run *setup.exe* to begin the software installation.
- 3) Run *LM4930customerv1_4.exe* to begin the software program.

Software Instructions (Please see screen shot above):



- 1) Volume controls are accessed through the slider bars on bottom of GUI interface.
- 2) Output modes and other features are accessed through the radio buttons on top of GUI.
- 3) The status of each audio output is given in the corresponding text boxes located in the top right section of the GUI.
- 4) The ADR bit setting must correspond to the jumper (S1) setting on the LM4930 Evaluation Board (ADR SELECT) for proper operation.
- 5) The DEFAULT button resets the GUI back to the default state.