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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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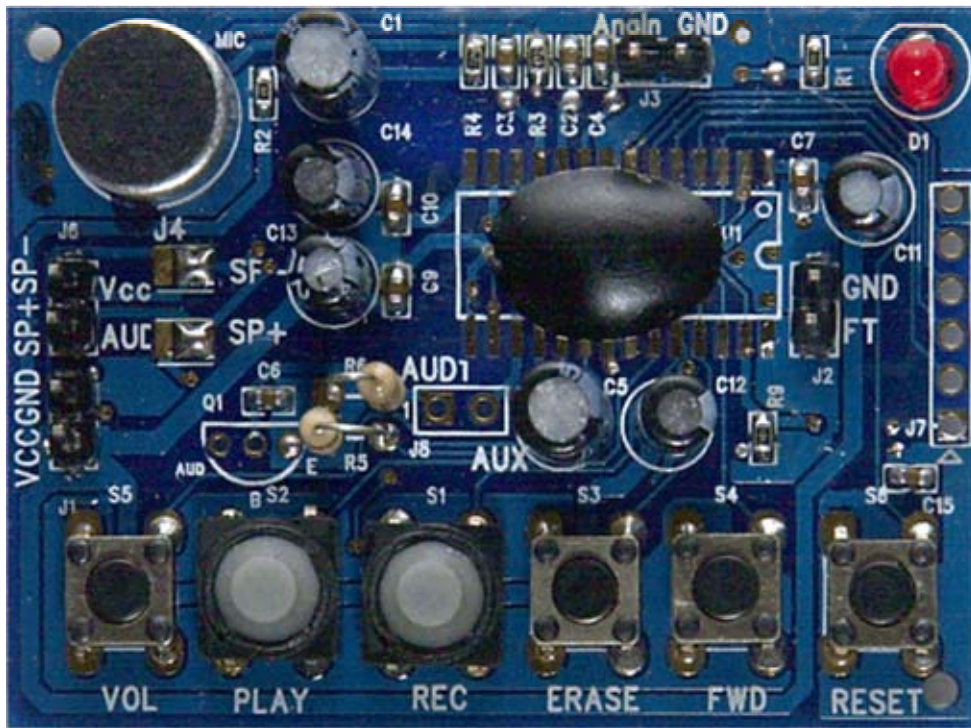
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# ISD-COB17x x x User's Manual



## DESCRIPTION:

The ISD-COB17<sub>xxx</sub> is a COB/demo board for ISD1700 series. It has either an ISD17<sub>xxx</sub> die or ISD17<sub>xxx</sub> SOIC unit assembled, where <sub>xxx</sub> represents the duration, to demonstrate the functionalities and voice quality of the ISD1700 device. The default settings for sampling frequency and output are 8kHz and PWM speaker outputs, respectively.


Product supported	Ordering Code
ISD1730 / 40 / 50 / 60 / 90 / 120 / 150 / 180 / 210 / 240	ISD-COB17 <sub>xxx</sub>

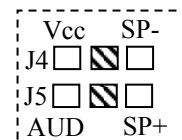
where <sub>xxx</sub> represents the duration

## CONTENTS OF THE KIT:

- The ISD-COB17<sub>xxx</sub> COB/Demo board
- User's manual

## HARDWARE CONNECTIONS:

- Connect a speaker and a power supply to the related terminals. Please ensure the polarity of the power is correct to avoid any damages to the demo board.
- When Analn recording or feed-through (FT) is required, simply connect the related signal to the Analn and ground points and/or connect FT jumper for FT mode.
- Speaker/AUD selection: Default setting is speaker output. If AUD is needed, remove the connection from center pad  to Sp- (Sp+) pad of J4 (J5) and re-connect the center pad to Vcc (AUD) of J4 (J5), as shown below. Also, need to install a jumper at J8 (AUD1-AUX) for AUD output.



## OPERATIONS:

### Standalone Operations:

To Record, simply press-and-hold the **REC** button and speak to the microphone. The LED stays on while recording. Release Record button to stop recording.

To Playback the recorded message, pressing **PLAY** button once plays the message and it stops automatically when completed. During playback, pressing **PLAY** button again will halt the playback operation. While playback operation, the LED flashes.

To Erase a message, simply pressing **ERASE** button will erase the message when it is the 1<sup>st</sup> or last message.

To Forward to the next message, pressing **FWD** button once will advance to the next message.

To change the Volume, pressing **VOL** button once will alter one volume level.

To Reset the device, pressing **RESET** button will bring the device back to its default state.

To vary the sampling frequency, change the Rosc (R5) to the desired value.

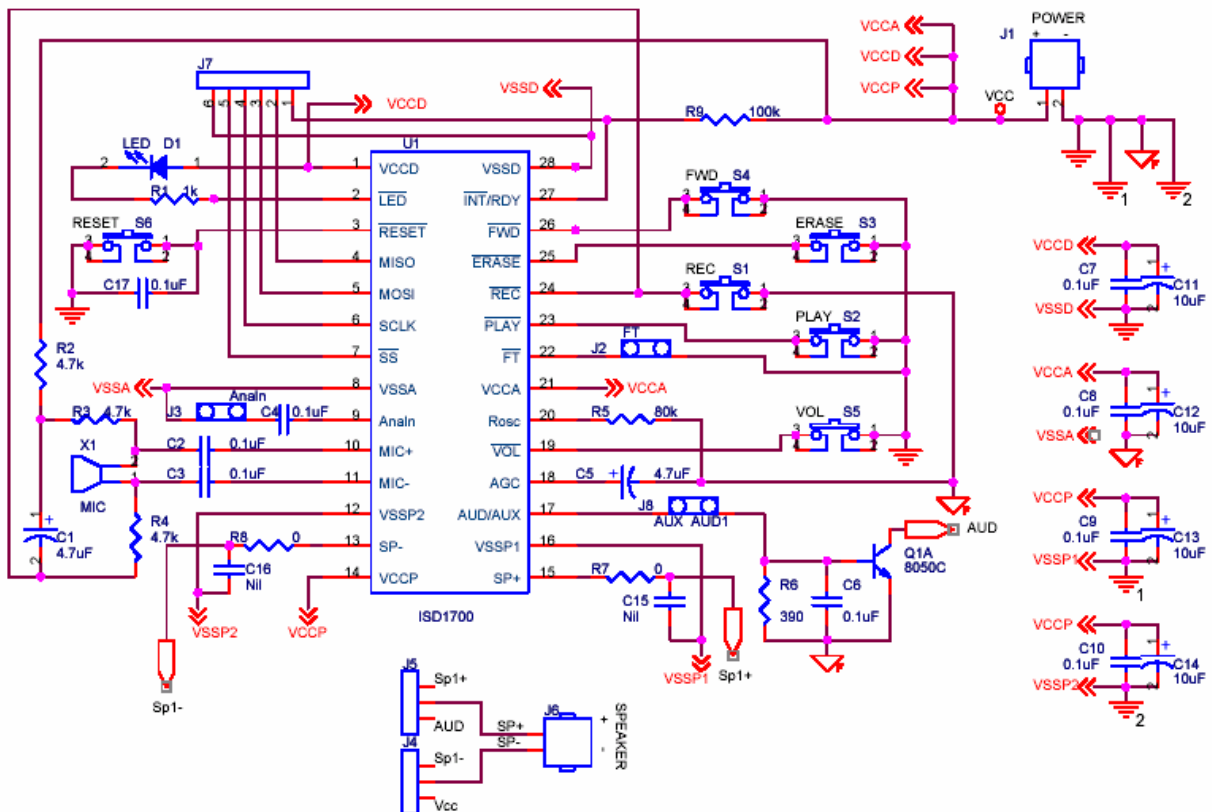
To feed-through (FT) AnIn signal to output, install jumper at J2, then connect signal to AnIn terminal.

### **SPI Operations:**

Simply connect the SPI signals to the SPI terminal and start running the program.

For other technical details on the ISD1700 series, please refer to the datasheet.

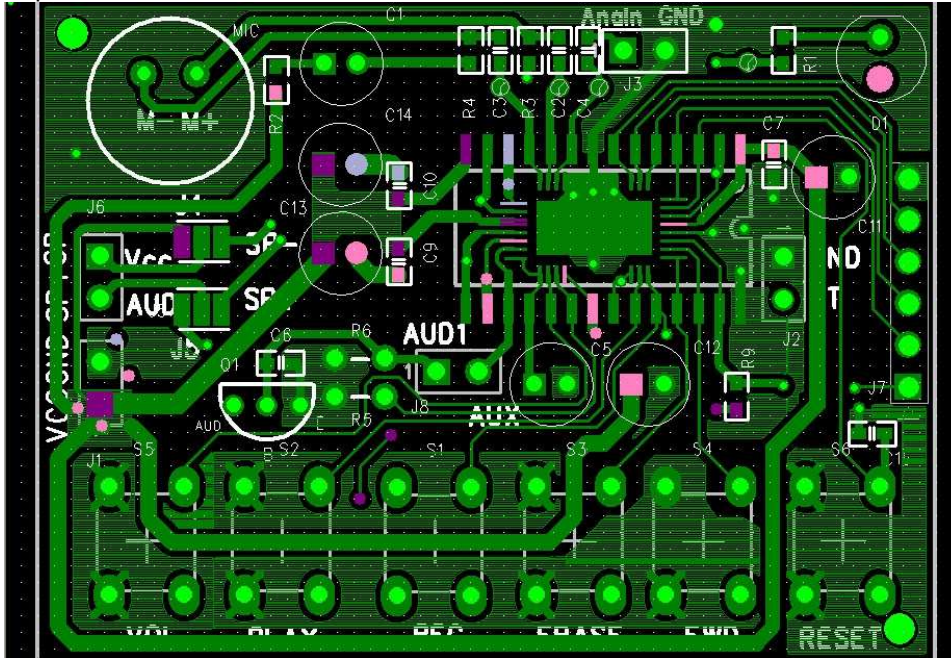
### **SCHEMATIC:**



**PCB LAYOUT PICTURES:**

Dimension: 54 mm x 40 mm

Top view:



Rear view:

