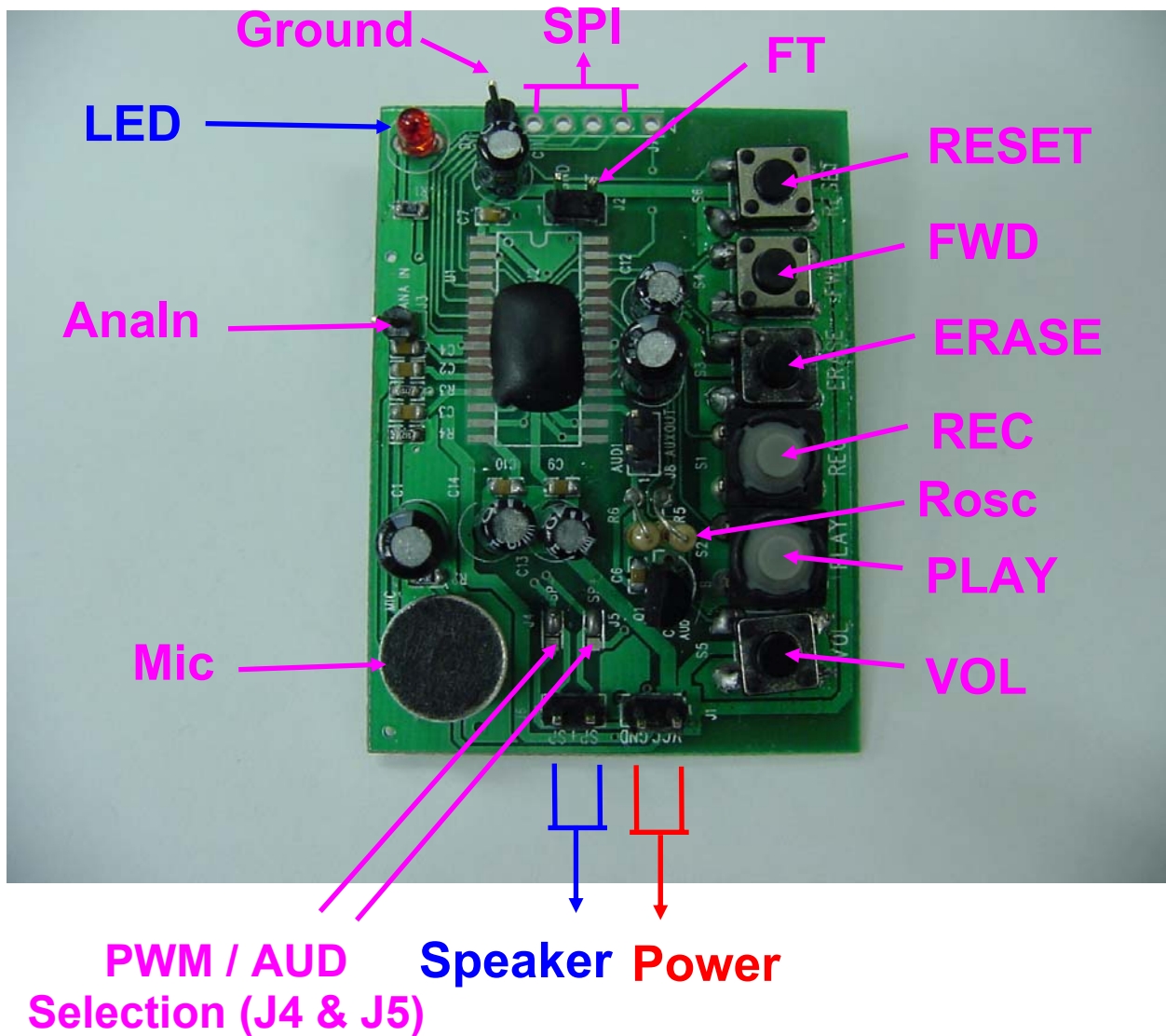



ISD-COB17x x x User Manual

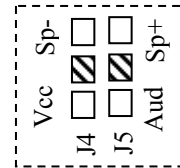
The ISD-COB17xxx is a COB/demo board for ISD1700 series. It has either a ISD17xxx die or ISD17xxx SOIC unit assembled to demonstrate the functionalities and voice quality of the ISD17xxx device. The picture below illustrates all the input controls and output selections. The default settings for sampling frequency and output are 8kHz and PWM speaker outputs, respectively.



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 AnaIn recording or feedthrough (FT) is required, simply connect the related signal to the AnaIn and ground points and/or connect FT jumper for FT mode.

- PWM/AUD selection: Default setting is PWM output. If AUD output 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 on the right.



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. During playback operation, the LED flashes.

To Erase a message, simply pressing **ERASE** button will erase the message when it is the 1st 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 to the desired value.

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 at:

http://www.winbond-usa.com/products/isd_products/chipcoder/

Schematic:

