ISD-ES2100DEMO

Board Description:

The ISD2100 board can be used in conjunction with the ISD15100 evaluation kit as daughter card to demonstrate all functionality of ISD2100 or as stand alone unit that can be connected to the user's system using the on board header pins. The board contains an ISD2100, a 3.5mm audio Jack and speaker header pins.

Power and Connectors:

Power:

Power is supplied to the ISD2100DEMO from the on board connectors if the board is used with the ISD15100 evaluation board. When the board is used a stand alone the J8 is used to connect +3V power to the board using external supplies connected via VCC and GND pins.

REFERENCE DESIGNATOR	Description	SUPPLY
GND	Ground	0V
VCC+	External Spply	2.7V to 3.6V

SPI Connection J1, J2

The user's microcontroller can communicate to the on-board ISD2100 via J2. An can monitor the signal on J1. Users need at least the four SPI signals plus a common ground. If users intend to implement digital-read or digital-write commands, they need to poll RDY/BSYB pin for data flow control as well.

Connector	Name	Description
J1, J2	pin1,2,3,4	VCC
J1, J2	Pin 5,6,7	No Connect
J1,J2	pin 8	RDY_BSYB/GPIO4
J1,J2	Pin9	INTB/GPIO3
J1,J2	Pin 10	SSB
J1,J2	Pin11	MOSI/GPIO0
J1,J2	Pin 12	MISO/GPIO2
J1,J2	Pin 13	SCLK/GPIO1
J1,J2	Pin14,15,16	GND

To use the ISD2100 Demo/daughter card with the ISD15100 evaluation kit, please follow the steps below:

1. Chip-erase the on-board ISD15108 chip.
   - This is to prevent the POI macro of the on-board ISD15108 chip from conflicting with the ISD2100 chip on the daughter card.
   - Unplug the ISD-ES15100_USB board and close the VPE15100.
2. Remove the two jumpers J17 SSB (**G**) and J21 RDY_BSYB (**H**).
   - In case the 0-ohm resistor R21 (next to the jumper J17 SSB) is on the board, remove it. Users don't need the 0-ohm resistor as it is fully controlled by the jumper J17.

3. Put the daughter card onto J19 (**F**).
4. Plug in the ISD-ES15100_USB board and launch the VPE2100

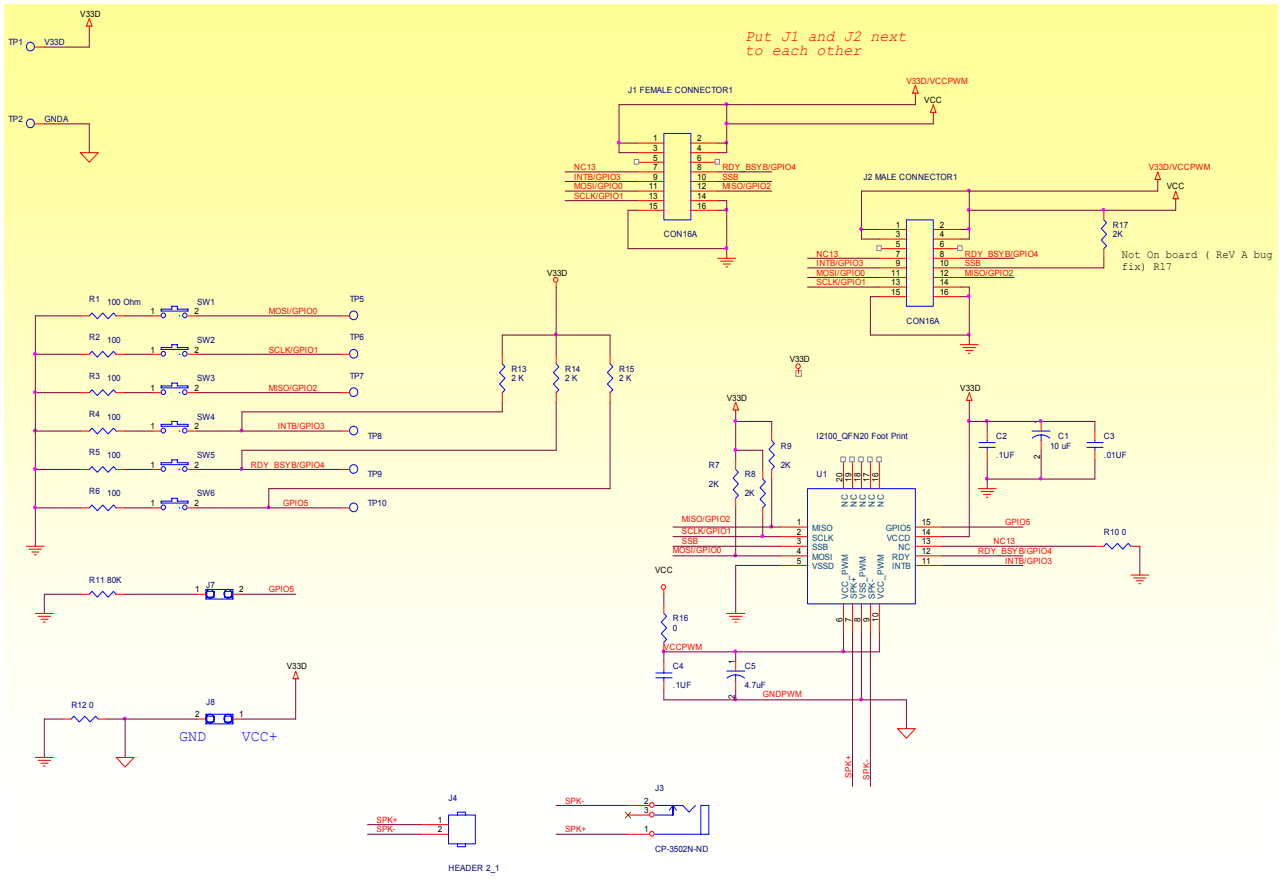

Fig1 ISD-ES210DEMO Schematics