TAS2770 I2S External Source

Applications Engineering – Low Power Audio & Actuators

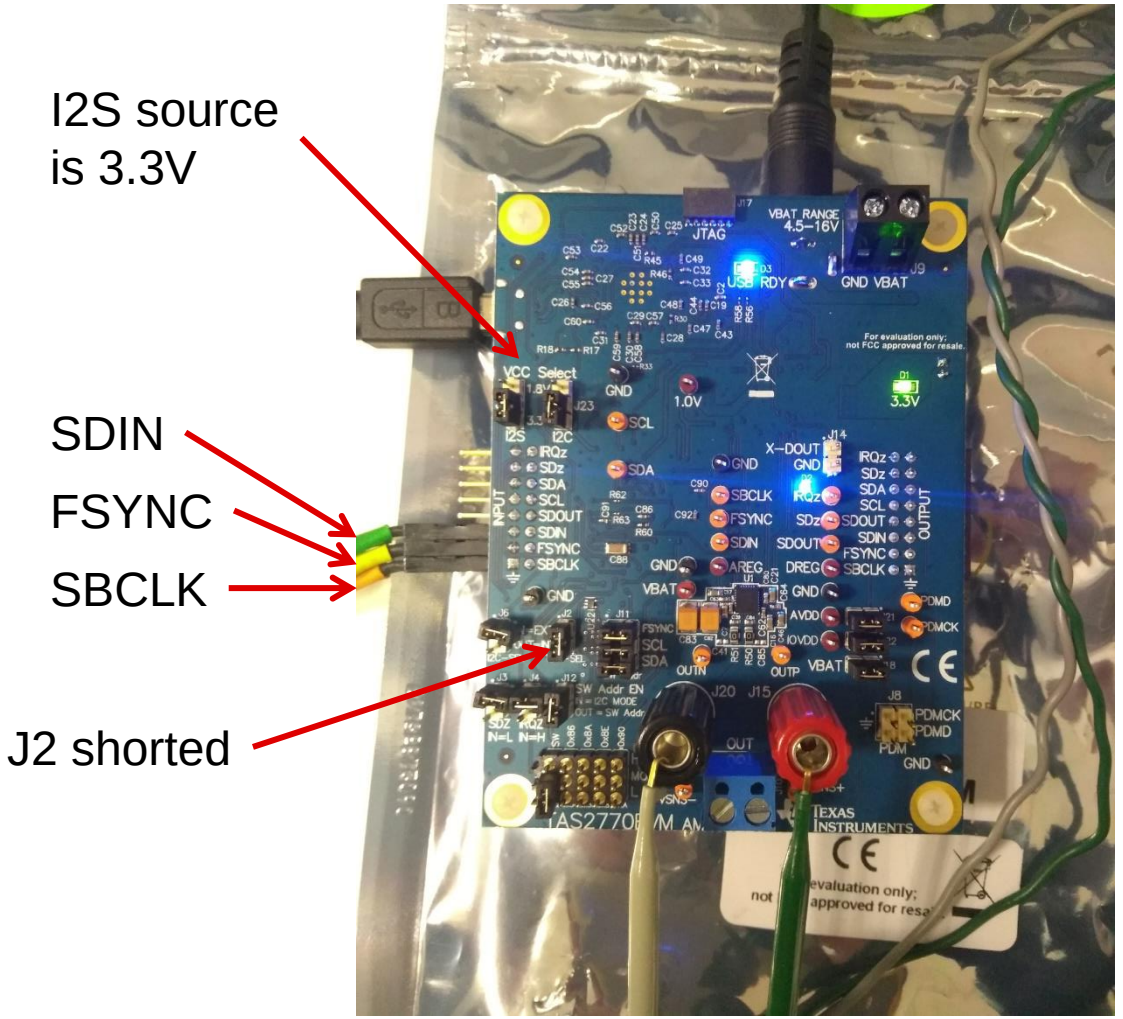
Default On-Board Audio Source (USB)

- TDM format
  - FSYNC single bit pulse
- 8 channels (slots)
- 32-bit slot length
- 24-bit word length
- FSYNC = 48kHz
- SBCLK = 32*8*FSYNC = 12.288MHz

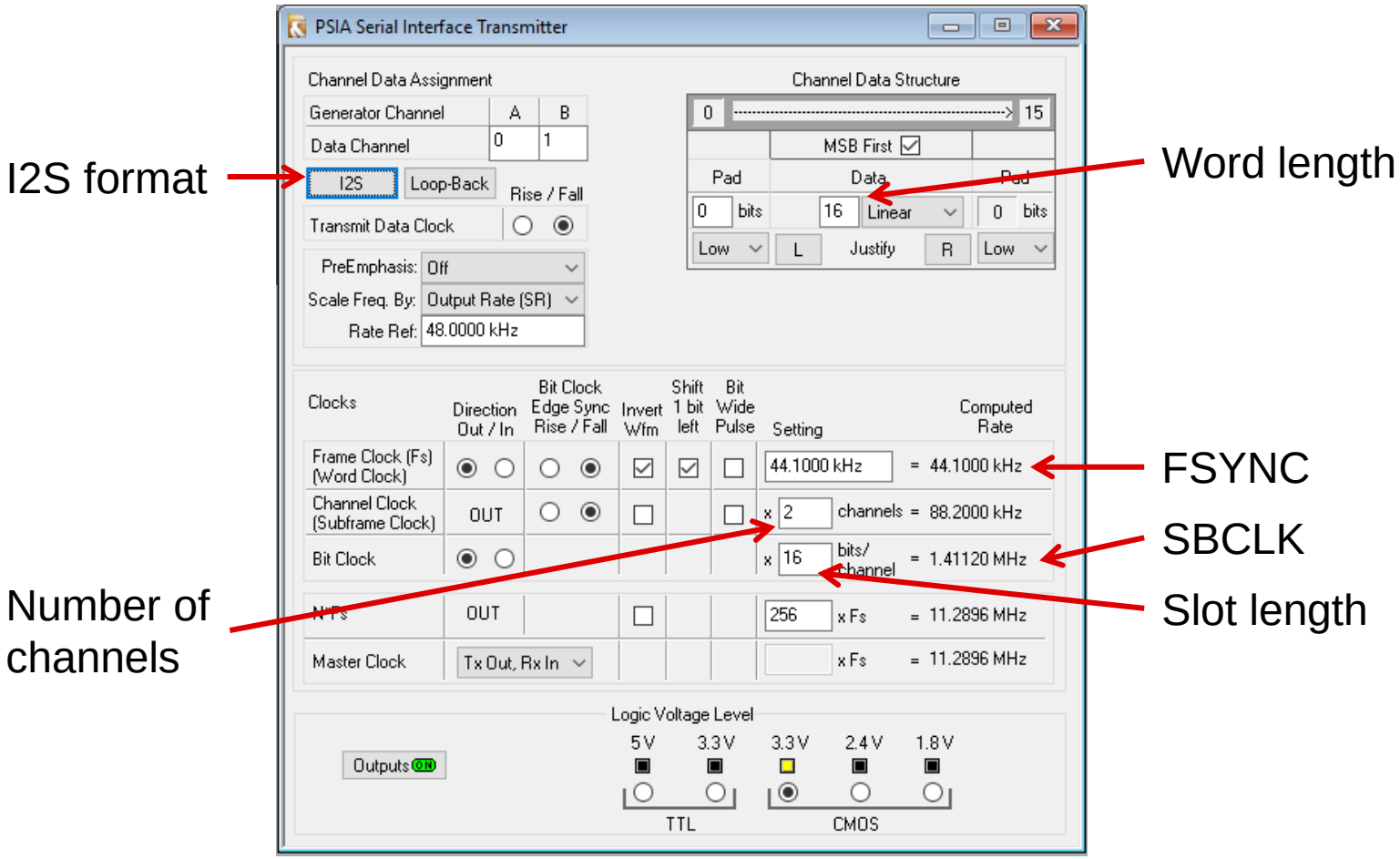
Custom Input Data Requirements (External)

- I2S format
  - FSYNC 50%
- 2 channels
- 16-bit slot length
- 16-bit word length
- FSYNC = 44.1kHz
- SBCLK = 16*2*FSYNC = 1.4112MHz

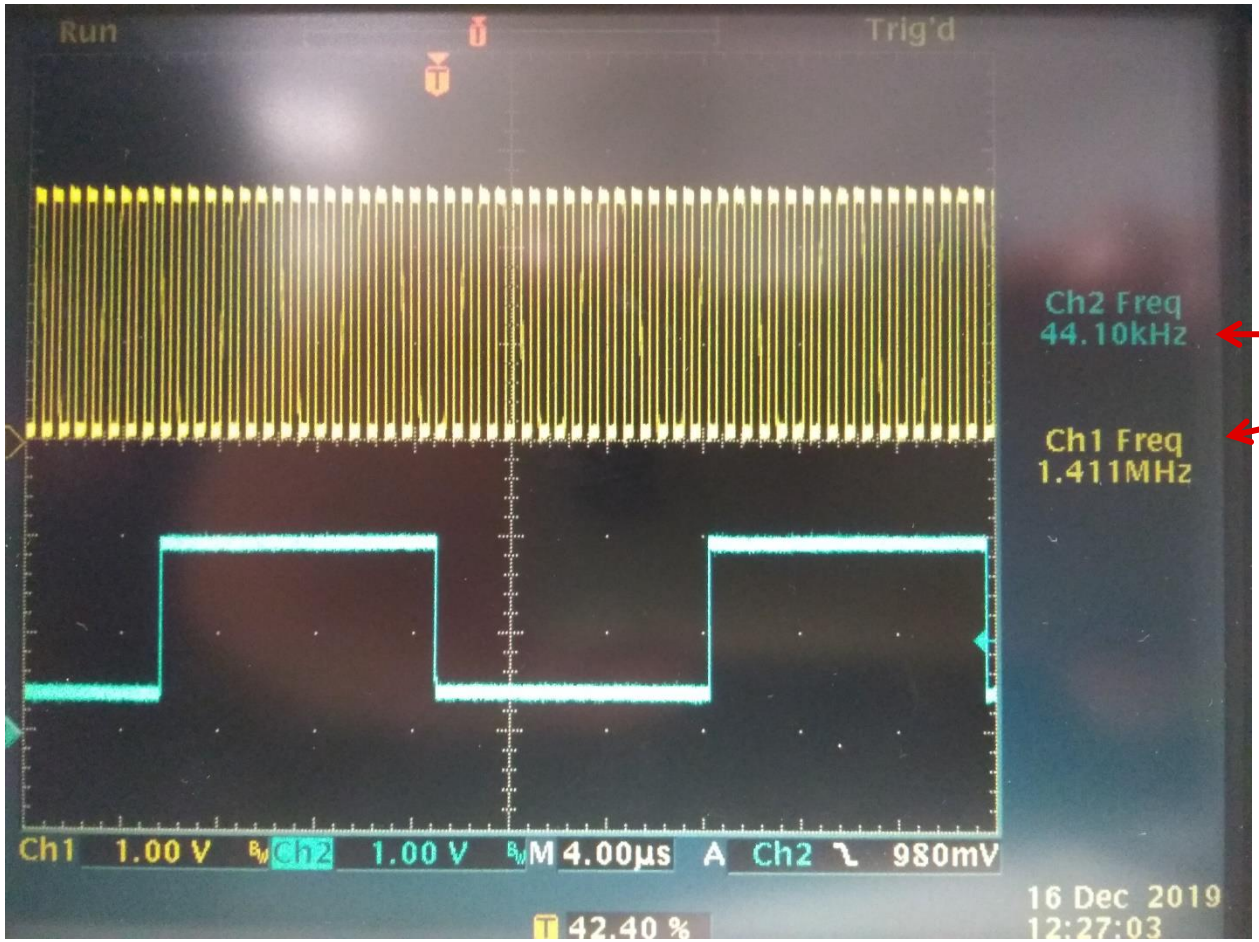
Hardware Setup



Audio Source Configuration



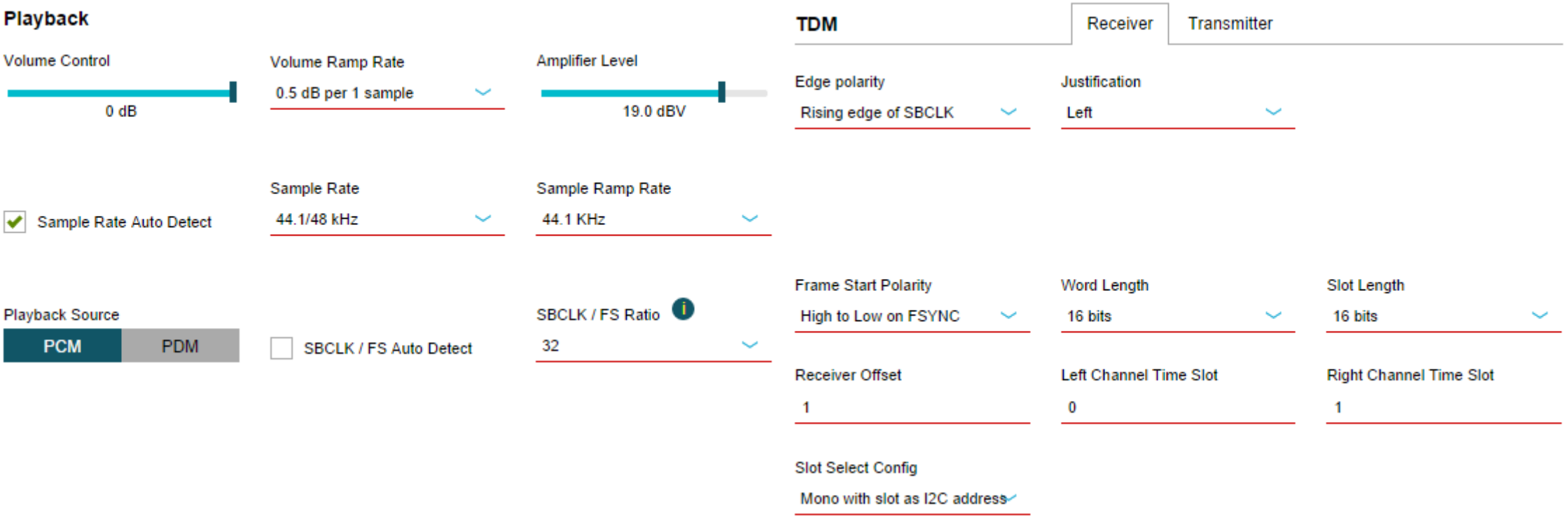
Audio Source Configuration



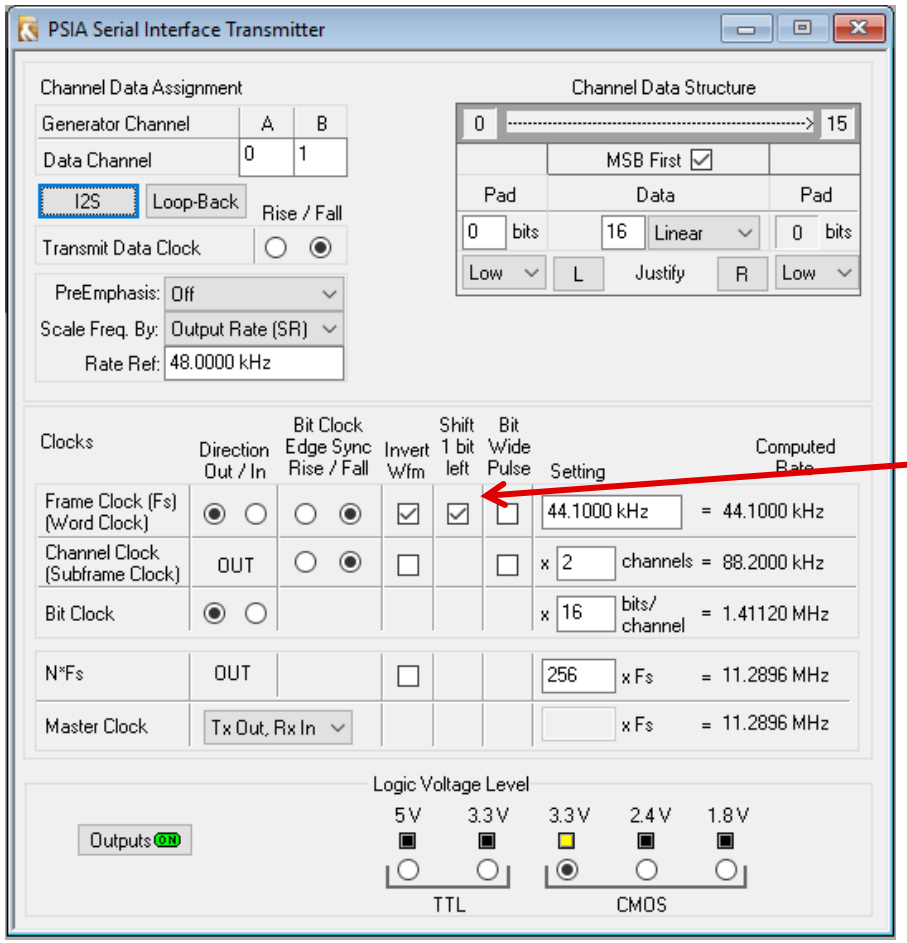
FSYNC

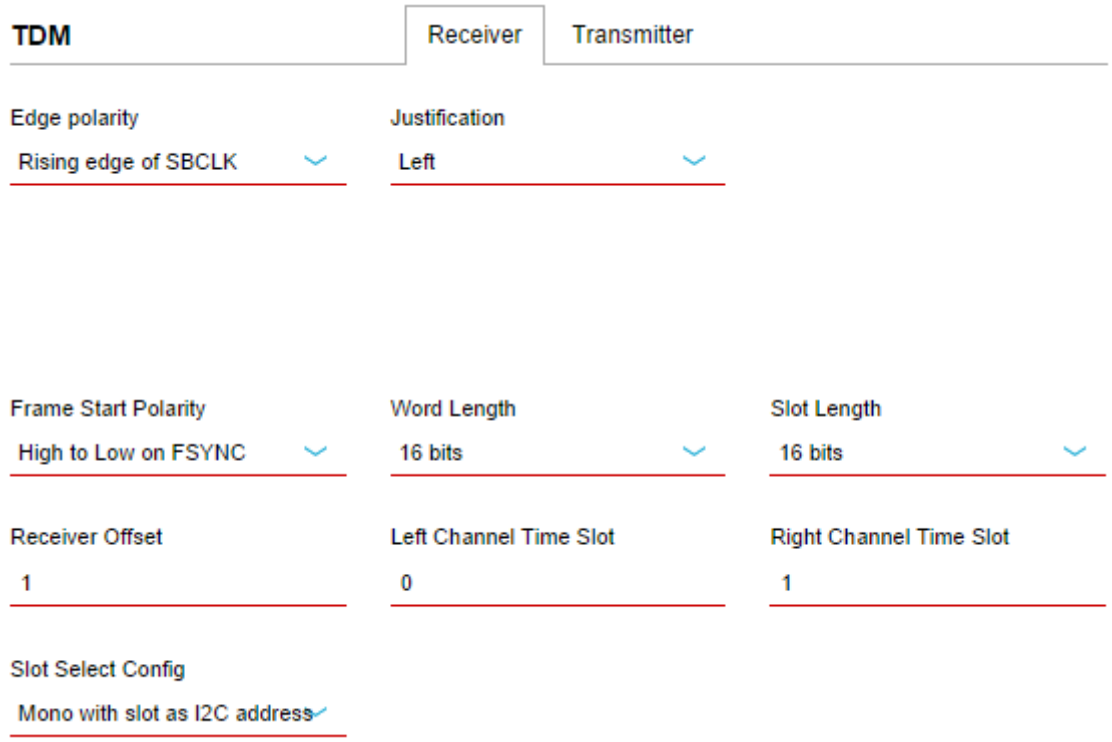
SBCLK

Device Configuration (Advanced Mode)



Special Note



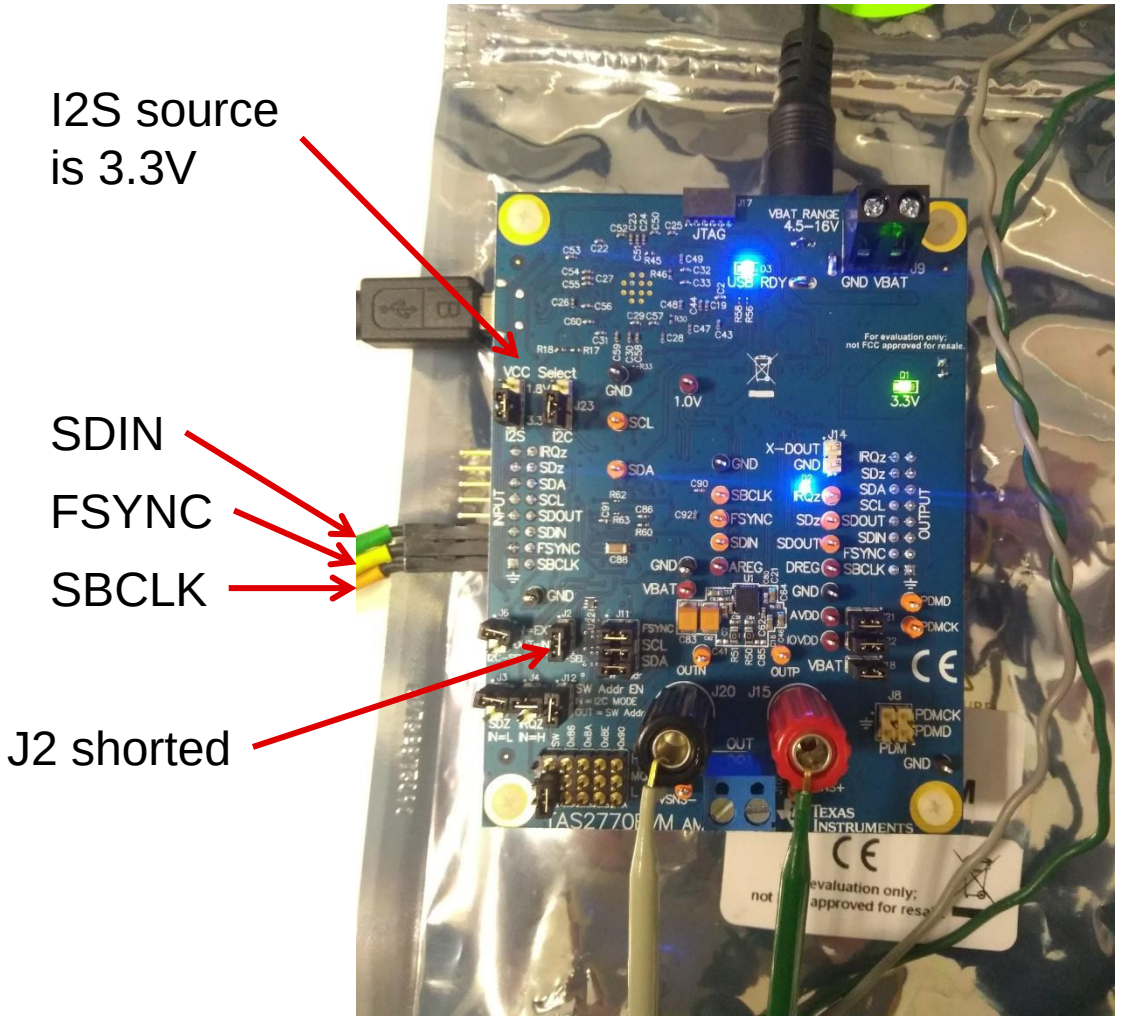


"Shift 1 bit left" is directly related to "Receiver Offset" configuration.
If "1 bit left" is un-checked, then receiver offset must be 0.

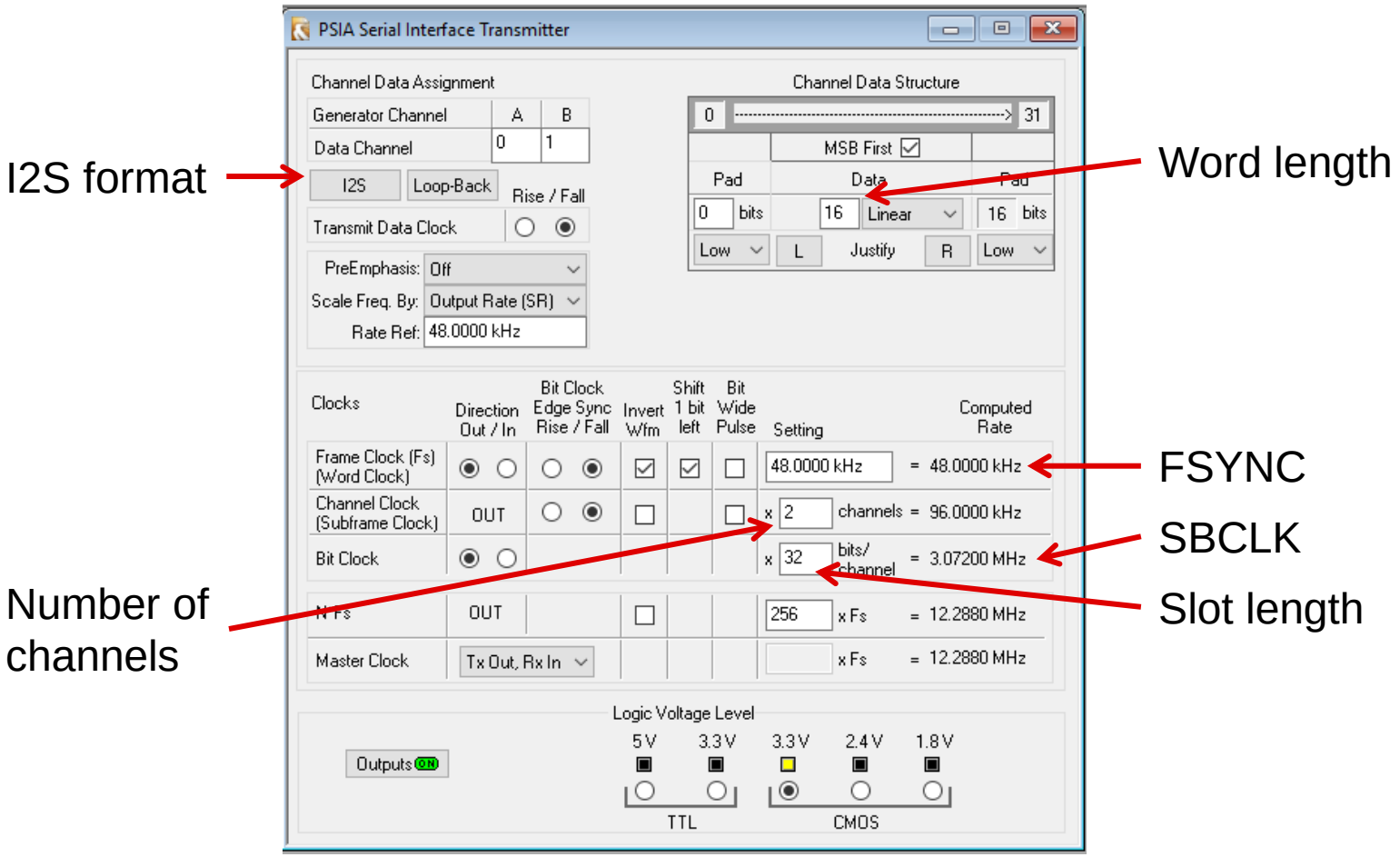
Custom Input Data Requirements (External)

- I2S format
  - FSYNC 50%
- 2 channels
- 16-bit slot length
- 32-bit word length
- FSYNC = 48kHz
- SBCLK = 32*2*FSYNC = 3.072MHz

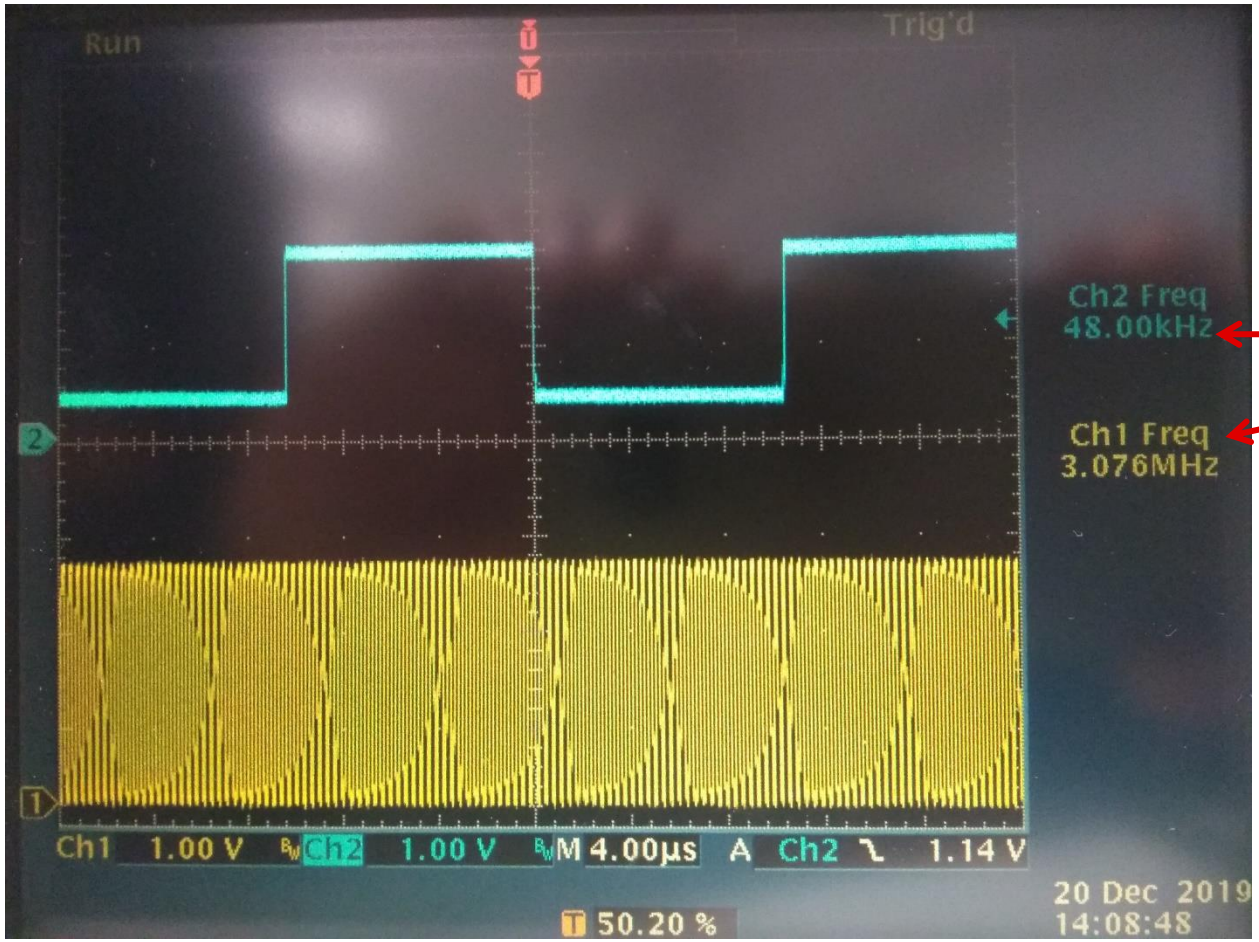
Hardware Setup



Audio Source Configuration



Audio Source Configuration



FSYNC

SBCLK

Device Configuration (Advanced Mode)