



### I2S3 Configuration

Parameter Settings | NVIC Settings | DMA Settings | GPIO Settings

Configure the below parameters :

- Generic Parameters**
  - Transmission Mode: Mode Master Transmit
  - Communication Standard: I2S Philips
  - Data and Frame Format: 16 Bits Data on 16 Bits Frame
  - Selected Audio Frequency: 8 KHz
  - Real Audio Frequency: 8.0 KHz
  - Error between Selected and Real: 0.0 %
- Clock Parameters**
  - Clock Source: I2S PLL Clock
  - Clock Polarity: Low

Buttons: Apply, Ok, Cancel

### TRACE32 PowerView for ARM

B:~data.list

```

365 /* Configure the I2S Slave with the I2S Master parameter values */
366 tmpreg |= (uint32_t)(SPI_I2SCFGR_I2SMOD | hi2s->Init.Standard | hi2s->Init.DataFormat | hi2s->Init.CPOL);
367
368 /* Write to SPIx I2SCFGR */
369 I2SxEXT(hi2s->Instance)->I2SCFGR = tmpreg;
370
371 hi2s->ErrorCode = HAL_I2S_ERROR_NONE;
372 hi2s->State = HAL_I2S_STATE_READY;
373
374 return HAL_OK;
375
376
377 /**
378  * @brief Deinitializes the I2S peripheral
379  * @param hi2s: pointer to a I2S_HandleTypeDef structure that contains
380  * the configuration information for I2S module
381  * @retval HAL status
382  */
383 HAL_StatusTypeDef HAL_I2S_DeInit(I2S_HandleTypeDef *hi2s)
384 {
385 /* Check the I2S handle allocation */
386 if(hi2s == NULL)
387 {
388 return HAL_ERROR;
389 }
390
391 hi2s->State = HAL_I2S_STATE_BUSY;
392
393 /* DeInit the low level hardware
394 HAL_I2S_MspDeInit(hi2s);
395
396 hi2s->ErrorCode = HAL_I2S_ERROR_NONE;
397 hi2s->State = HAL_I2S_STATE_READY;
398
399 /* Release Lock */
400 __HAL_UNLOCK(hi2s);
401
402 return HAL_OK;
    
```

B:~per

SPI_SR	XXXX	RXDMAEN	Disabled	I2S	I2S	I2SE	Disabled
SPI_DR	0000	DATA_IN		I2S	Master/Transmit	PCMSYNC	Short
SPI_CRCP	XXXX			I2SSTD	I2S Philips	CKPOL	Low
SPI_RXCR	XXXX			DATLEN	16-bit	CHLEN	16-bit
SPI_TXCR	XXXX			SPI_I2SCFGR	0A00	ODD	I2SDIV #2
SPI_I2SPR	00B7	WCKOE	Disabled				I2SDIV B7

B:~ I2Sdiv = 183

Buttons: trigger, devices, trace, Data, Var, List, PERF, SYStem, Step, Go, Break, symbol, Frame, Register, FPU, MMX, other, previous

Status: stopped