

I ² S signal	I ² S pin	Direction	Output value	Comment
MCK	As specified in PSEL.MCK	Output	0	
LRCK	As specified in PSEL.LRCK	Input	Not applicable	
SCK	As specified in PSEL.SCK	Input	Not applicable	
SDIN	As specified in PSEL.SDIN	Input	Not applicable	
SDOUT	As specified in PSEL.SDOUT	Output	0	

Table 44: GPIO configuration before enabling peripheral (Slave mode)

8.11.10 Registers

Instances

Instance	Domain	Base address	TrustZone		DMA	Split access	Description
			Map	Att			
I2S20 : S	GLOBAL	0x500DD000	US	S	SA	No	Inter-IC sound interface I2S20
I2S20 : NS		0x400DD000					

Configuration

Instance	Domain	Configuration
I2S20 : S	GLOBAL	Available GPIO port: P1
I2S20 : NS		

Register overview

Register	Offset	TZ	Description
TASKS_START	0x000		Starts continuous I2S transfer. Also starts MCK generator when this is enabled
TASKS_STOP	0x004		Stops I2S transfer and MCK generator. Triggering this task will cause the event STOPPED to be generated.
SUBSCRIBE_START	0x080		Subscribe configuration for task START
SUBSCRIBE_STOP	0x084		Subscribe configuration for task STOP
EVENTS_RXPTRUPD	0x104		The RXD.PTR register has been copied to internal double-buffers. When the I2S module is started and RX is enabled, this event will be generated for every ceil(RXTXD.MAXCNT/4) words received on the SDIN pin.
EVENTS_STOPPED	0x108		I2S transfer stopped.
EVENTS_TXPTRUPD	0x114		The TDX.PTR register has been copied to internal double-buffers. When the I2S module is started and TX is enabled, this event will be generated for every ceil(RXTXD.MAXCNT/4) words that are sent on the SDOUT pin.
EVENTS_FRAMESTART	0x11C		Frame start event, generated on the active edge of LRCK
PUBLISH_RXPTRUPD	0x184		Publish configuration for event RXPTRUPD
PUBLISH_STOPPED	0x188		Publish configuration for event STOPPED
PUBLISH_TXPTRUPD	0x194		Publish configuration for event TXPTRUPD
PUBLISH_FRAMESTART	0x19C		Publish configuration for event FRAMESTART
INTEN	0x300		Enable or disable interrupt
INTENSET	0x304		Enable interrupt
INTENCLR	0x308		Disable interrupt
ENABLE	0x500		Enable I2S module
CONFIG.MODE	0x504		I2S mode
CONFIG.RXEN	0x508		Reception (RX) enable
CONFIG.TXEN	0x50C		Transmission (TX) enable