Register overview

Register	Offset	TZ	Description
TASKS_START	0x000		Starts continuous PDM transfer
TASKS_STOP	0x004		Stops PDM transfer
SUBSCRIBE_START	0x080		Subscribe configuration for task START
SUBSCRIBE_STOP	0x084		Subscribe configuration for task STOP
EVENTS_STARTED	0x100		PDM transfer has started
EVENTS_STOPPED	0x104		PDM transfer has finished
EVENTS_END	0x108		The PDM has written the last sample specified by SAMPLE.MAXCNT (or the last sample after a STOP task has been received) to Data RAM
EVENTS_DMA.BUSERROR	0x110		This event is generated if an error occurs during the bus transfer.
PUBLISH_STARTED	0x180		Publish configuration for event STARTED
PUBLISH_STOPPED	0x184		Publish configuration for event STOPPED
PUBLISH_END	0x188		Publish configuration for event END
PUBLISH_DMA.BUSERROR	0x190		Publish configuration for event DMA.BUSERROR
INTEN	0x300		Enable or disable interrupt
INTENSET	0x304		Enable interrupt
INTENCLR	0x308		Disable interrupt
INTPEND	0x30C		Pending interrupts
ENABLE	0x500		PDM module enable register
MODE	0x508		Defines the routing of the connected PDM microphone signals
GAINL	0x518		Left output gain adjustment
GAINR	0x51C		Right output gain adjustment
RATIO	0x520		Selects the decimation ratio between PDM_CLK and output sample rate. Change PRESCALER accordingly.
PSEL.CLK	0x540		Pin number configuration for PDM CLK signal
PSEL.DIN	0x544		Pin number configuration for PDM DIN signal
SAMPLE.PTR	0x560		RAM address pointer to write samples to with EasyDMA
SAMPLE.MAXCNT	0x564		Number of bytes to allocate memory for in EasyDMA mode
PRESCALER	0x580		The prescaler is used to set the PDM frequency
DMA.TERMINATEONBUSERROR	0x700		Terminate the transaction if a BUSERROR event is detected.
DMA.BUSERRORADDRESS	0x704		Address of transaction that generated the last BUSERROR event.

8.14.7.1 TASKS_START

Address offset: 0x000

Starts continuous PDM transfer

Bit number		31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
ID		A
Reset 0x00000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ID	R/W	Field	Value ID	Value	Description
A	W	TASKS_START			Starts continuous PDM transfer
			Trigger	1	Trigger task

8.14.7.2 TASKS_STOP

Address offset: 0x004

Stops PDM transfer

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