

Register overview

Register	Offset	TZ	Description
TASKS_START	0x000		Task starting the quadrature decoder
TASKS_STOP	0x004		Task stopping the quadrature decoder
TASKS_READCLRACC	0x008		Read and clear ACC and ACCDBL
TASKS_RDCLRACC	0x00C		Read and clear ACC
TASKS_RDCLRDBL	0x010		Read and clear ACCDBL
SUBSCRIBE_START	0x080		Subscribe configuration for task START
SUBSCRIBE_STOP	0x084		Subscribe configuration for task STOP
SUBSCRIBE_READCLRACC	0x088		Subscribe configuration for task READCLRACC
SUBSCRIBE_RDCLRACC	0x08C		Subscribe configuration for task RDCLRACC
SUBSCRIBE_RDCLRDBL	0x090		Subscribe configuration for task RDCLRDBL
EVENTS_SAMPLERDY	0x100		Event being generated for every new sample value written to the SAMPLE register
EVENTS_REPORTRDY	0x104		Non-null report ready
EVENTS_ACCOF	0x108		ACC or ACCDBL register overflow
EVENTS_DBLRDY	0x10C		Double displacement(s) detected
EVENTS_STOPPED	0x110		QDEC has been stopped
PUBLISH_SAMPLERDY	0x180		Publish configuration for event SAMPLERDY
PUBLISH_REPORTRDY	0x184		Publish configuration for event REPORTRDY
PUBLISH_ACCOF	0x188		Publish configuration for event ACCOF
PUBLISH_DBLRDY	0x18C		Publish configuration for event DBLRDY
PUBLISH_STOPPED	0x190		Publish configuration for event STOPPED
SHORTS	0x200		Shortcuts between local events and tasks
INTENSET	0x304		Enable interrupt
INTENCLR	0x308		Disable interrupt
ENABLE	0x500		Enable the quadrature decoder
LEDPOL	0x504		LED output pin polarity
SAMPLEPER	0x508		Sample period
SAMPLE	0x50C		Motion sample value
REPORTPER	0x510		Number of samples to be taken before REPORTRDY and DBLRDY events can be generated
ACC	0x514		Register accumulating the valid transitions
ACCREAD	0x518		Snapshot of the ACC register, updated by the READCLRACC or RDCLRACC task
PSEL.LED	0x51C		Pin select for LED signal
PSEL.A	0x520		Pin select for A signal
PSEL.B	0x524		Pin select for B signal
DBFEN	0x528		Enable input debounce filters
LEDPRE	0x540		Time period the LED is switched ON prior to sampling
ACCDBL	0x544		Register accumulating the number of detected double transitions
ACCDBLREAD	0x548		Snapshot of the ACCDBL, updated by the READCLRACC or RDCLRDBL task

8.16.7.1 TASKS_START

Address offset: 0x000

Task starting the quadrature decoder

When started, the SAMPLE register will be continuously updated at the rate given in the SAMPLEPER register.