

Register map

Created with [Corsair](#) v1.0.4.

Conventions

Access mode	Description
rw	Read and Write
rw1c	Read and Write 1 to Clear
rw1s	Read and Write 1 to Set
ro	Read Only
roc	Read Only to Clear
roll	Read Only / Latch Low
rolh	Read Only / Latch High
wo	Write only
wosc	Write Only / Self Clear

Register map summary

Base address: 0x90000000

Name	Address	Description
SPI_TX_LOW	0x00000000	Transmit data register low (lower 32 bits)
SPI_TX_HIGH	0x00000004	Transmit data register high (higher 32 bits)
SPI_RX_LOW	0x00000008	Receive data register low (lower 32 bits)
SPI_RX_HIGH	0x0000000c	Receive data register high (higher 32 bits)
CONTROL_REG	0x00000010	SPI Control register
STATUS_REG	0x00000014	SPI Status register

SPI_TX_LOW

Transmit data register low (lower 32 bits)

Address offset: 0x00000000

Reset value: 0x00000000



Name	Bits	Mode	Reset	Description
DATA_LOW	31:0	rw	0x00000000	Data to transmit (lower 32 bits)

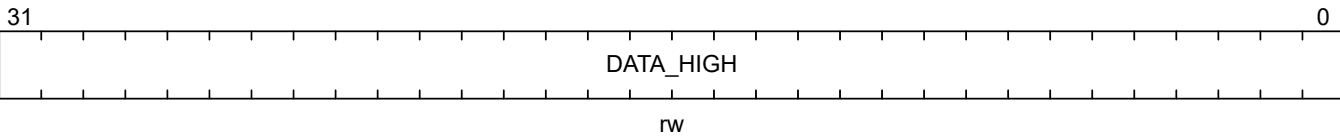
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SPI_TX_HIGH

Transmit data register high (higher 32 bits)

Address offset: 0x00000004

Reset value: 0x00000000



Name	Bits	Mode	Reset	Description
DATA_HIGH	31:0	rw	0x00000000	Data to transmit (higher 32 bits)

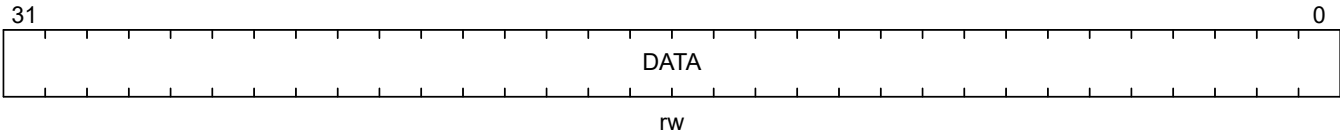
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SPI_RX_LOW

Receive data register low (lower 32 bits)

Address offset: 0x00000008

Reset value: 0x00000000



Name	Bits	Mode	Reset	Description
DATA	31:0	rw	0x00000000	Data received (lower 32 bits)

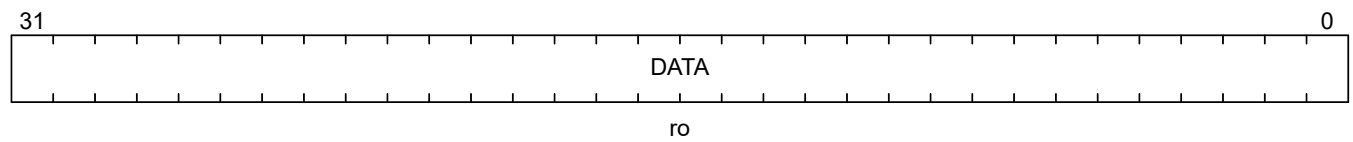
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SPI_RX_HIGH

Receive data register high (higher 32 bits)

Address offset: 0x0000000c

Reset value: 0x00000000



Name	Bits	Mode	Reset	Description
DATA	31:0	ro	0x00000000	Data received (higher 32 bits)

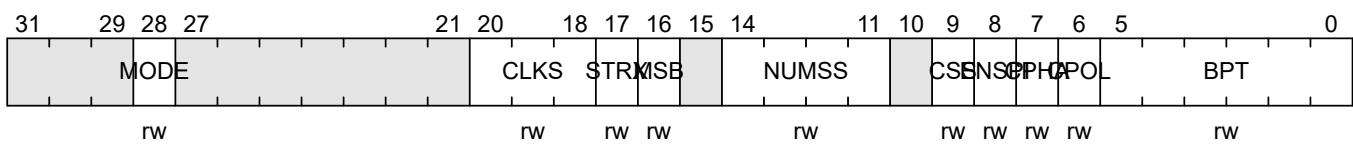
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CONTROL_REG

SPI Control register

Address offset: 0x00000010

Reset value: 0x000d0208



Name	Bits	Mode	Reset	Description
-	31:29	-	0x0	Reserved
MODE	28	rw	0x0	0 - Master mode, 1 - Slave mode
-	27:21	-	0x0	Reserved
CLKS	20:18	rw	0x3	Clock selection
STRX	17	rw	0x0	Start transmit/receive
MSB	16	rw	0x1	MSB first enable
-	15	-	0x0	Reserved
NUMSS	14:11	rw	0x0	Slave number selection (0~15)
-	10	-	0x0	Reserved
CSS	9	rw	0x1	Automatic slave select enable
ENSPI	8	rw	0x0	Enable SPI
CPHA	7	rw	0x0	Clock phase
CPOL	6	rw	0x0	Clock polarity
BPT	5:0	rw	0x8	Bits per transfer (0 -> 1 bit, 63 -> 64 bits)

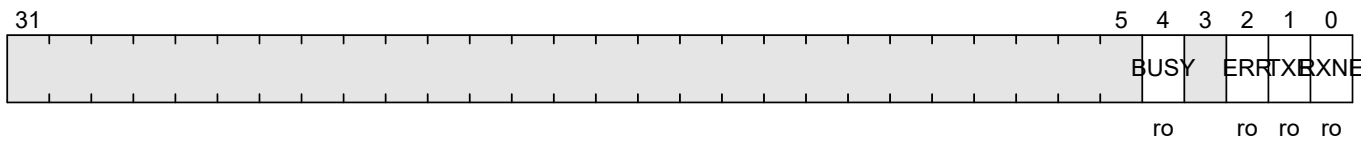
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STATUS_REG

SPI Status register

Address offset: 0x00000014

Reset value: 0x00000000



Name	Bits	Mode	Reset	Description
-	31:5	-	0x000000	Reserved
BUSY	4	ro	0x0	SPI Busy flag
-	3	-	0x0	Reserved
ERR	2	ro	0x0	Error flag (future use)
TXE	1	ro	0x0	TX empty (ready for transmit)
RXNE	0	ro	0x0	RX not empty (data received)

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