

LED output pin polarity

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|--------|------------|---------------------------------------------------------------------------------------|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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 | RW | LEDPOL | | | | | | LED output pin polarity | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ActiveLow | 0 | | | | Led active on output pin low | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ActiveHigh | 1 | | | | Led active on output pin high | | | | | | | | | | | | | | | | | | | | | | | | | | | |

8.16.7.26 SAMPLEPER

Address offset: 0x508

Sample period

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|-----------|----------|-------|----|----|----|-------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A | A | 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 | 0 | | | |
| ID | R/W | Field | Value ID | Value | | | | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | RW | SAMPLEPER | | | | | | Sample period. The SAMPLE register will be updated for every new sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 128us | 0 | | | | 128 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 256us | 1 | | | | 256 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 512us | 2 | | | | 512 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1024us | 3 | | | | 1024 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2048us | 4 | | | | 2048 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4096us | 5 | | | | 4096 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8192us | 6 | | | | 8192 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 16384us | 7 | | | | 16384 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 32ms | 8 | | | | 32768 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 65ms | 9 | | | | 65536 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 131ms | 10 | | | | 131072 μs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

8.16.7.27 SAMPLE

Address offset: 0x50C

Motion sample value

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|--------|----------|---------|----|----|----|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|
| 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 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | 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 | R | SAMPLE | | [-1..2] | | | | Last motion sample | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The value is a 2's complement value, and the sign gives the direction of the motion. The value '2' indicates a double transition.

8.16.7.28 REPORTPER

Address offset: 0x510

Number of samples to be taken before REPORTRDY and DBLRDY events can be generated