

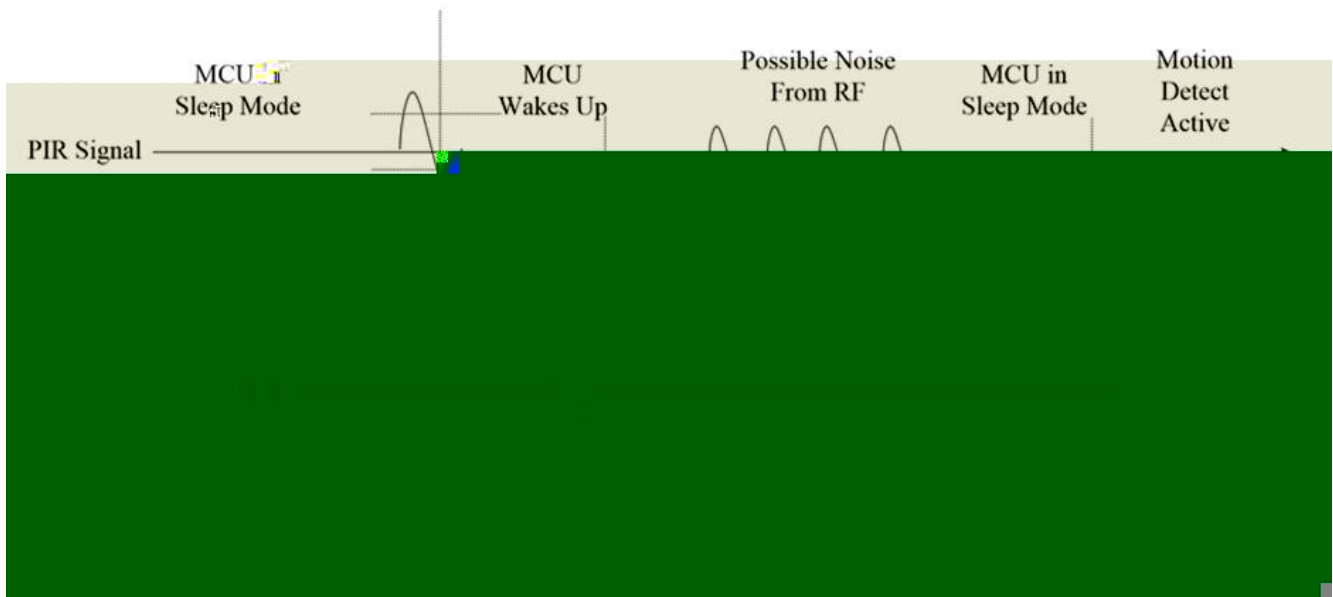






3. _____

RS412 PIR RS412
ADC



6 (SERIN)

SERIN

INT/DOCI

SERIN

16

RS412

3.2

SERIN

DOCI

:

1)

/

6.5 v

=

*6.5 v

2)

0

:

0.5s ~ 8s

=

*0.5s

3)

1 ~ 4

=

+1

4)

2s~8s

=

*2s+2s

5)

0 =

1 =

6)

ADC

16



0 = 1 =

7) ADC

ADC	ADC	:
PIR	BFP	= 0
PIR	LPF	= 1
	= 2	
	= 3	



威利士
WILLIS TOWERS WATSON

0.15%

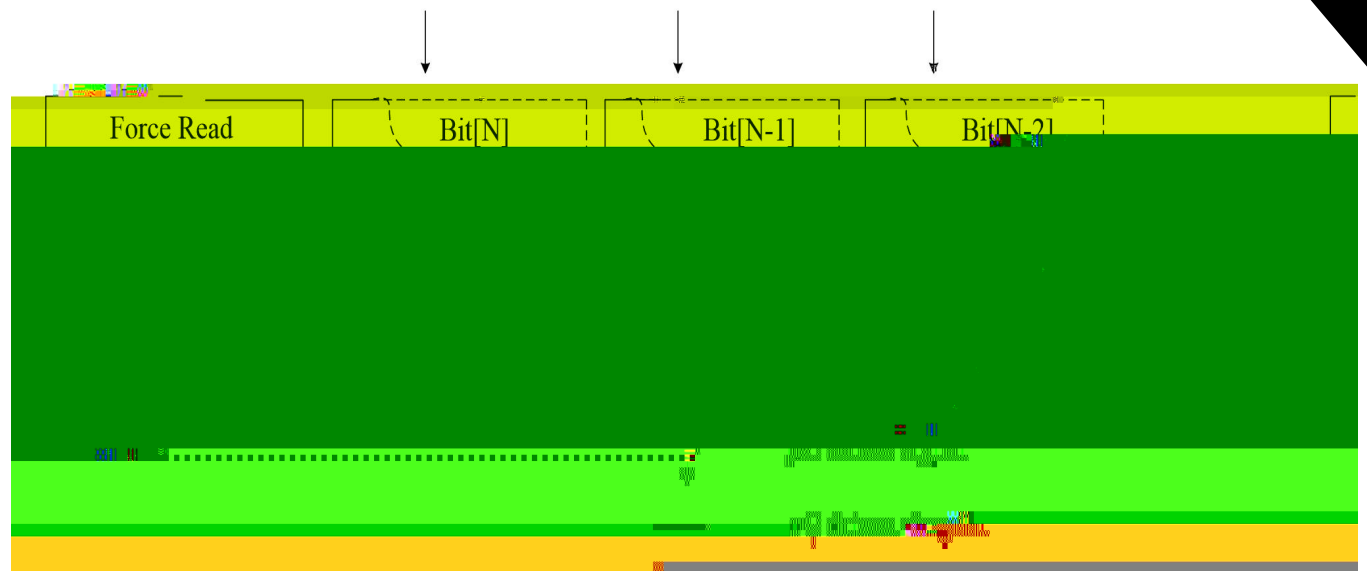
MCU

2

(tFR)
4

DOC1
"0"

DOC1

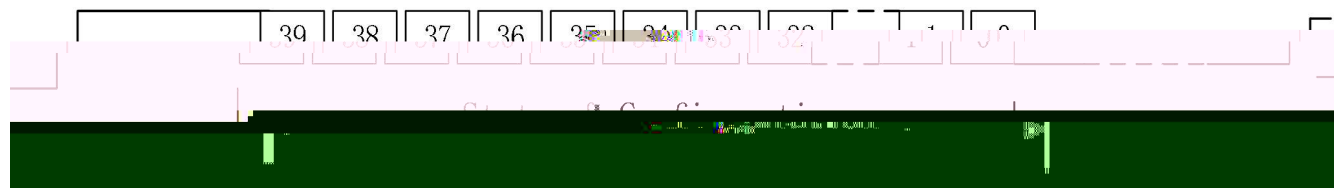


ADC

DOC1 & INTR

ADC

512





[16:13]	[3:0]	"H" "L"
[12:11]	[1:0]	
[10:9]	[1:0]	
[8]		0= 1 =
[7]		0= 1 =
[6:5]	[1:0] ADC	0 = PIR (HPF) 1 = PIR (LPF) 2 = 3 =
[4:1]		
[0]		1= 0=

4.

4.1 PIR

1)

$$\text{ADC [6:5] PIR LPF (=1)}$$
$$\text{VPIR} = (\text{ADC_out} - \text{ADC_offset}) * 6.5 \text{ v}$$

2)

$$\text{ADC [6:5] PIR HPF (=0)}$$
$$\text{VPIR} = \text{ADC_out} * 6.5 \text{ v}$$

4.2

$$\text{ADC [6:5] (=2)}$$
$$\text{VDD} = (\text{ADC_out} - \text{ADC_offset}) * 650 \text{ V.}$$

4.3

$$\text{ADC [6:5] (=3)}$$
$$= \text{Tcal} + (\text{ADC_out} - \text{ADC_offset}(\text{Tcal})) / 80 * \text{count} / K$$
$$\text{ADC_offset} = \text{ADC @ VIN} = 0 = 2^{13}$$
$$\text{ADC_offset}(\text{Tcal}) = \text{ADC} = 8200 @ 300k$$



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SENBA SENSING TECHNOLOGY CO., LTD.



1	35	95 RH	500H		
2	-40	500H		3H	:1
3	80	500H			
4	-40	1H/	1H/40	1H/10	2
5	260 ± 5	10S			15



