



森霸传感科技股份有限公司

SENBA SENSING TECHNOLOGY CO., LTD.



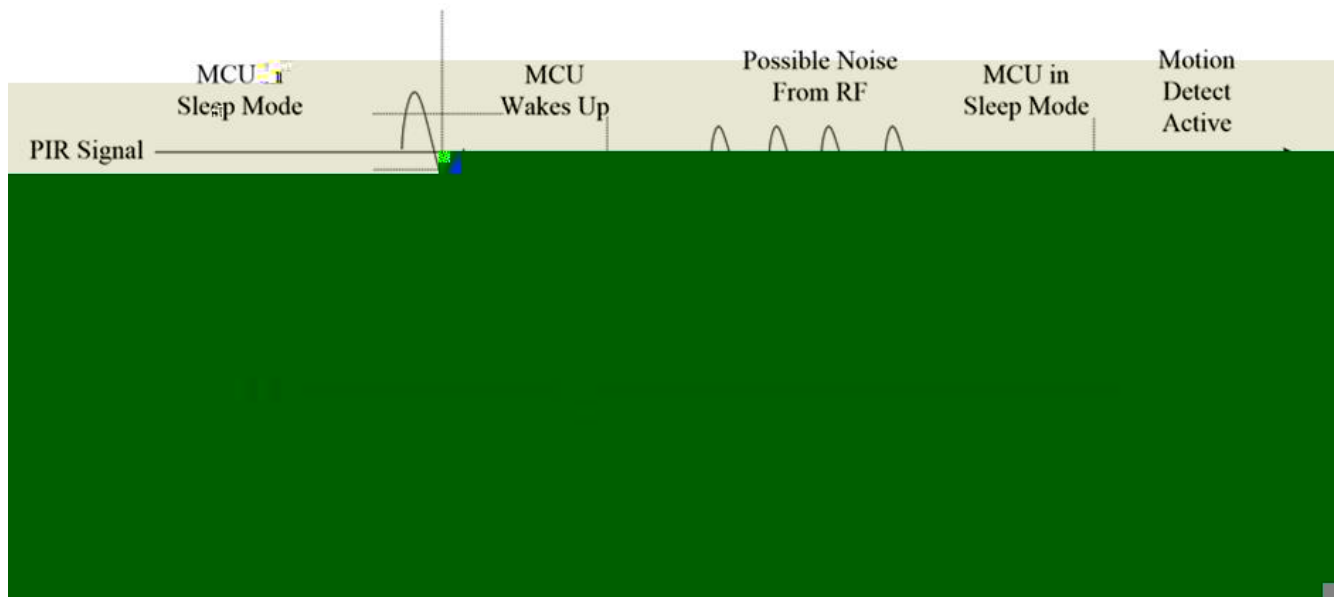
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3.

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

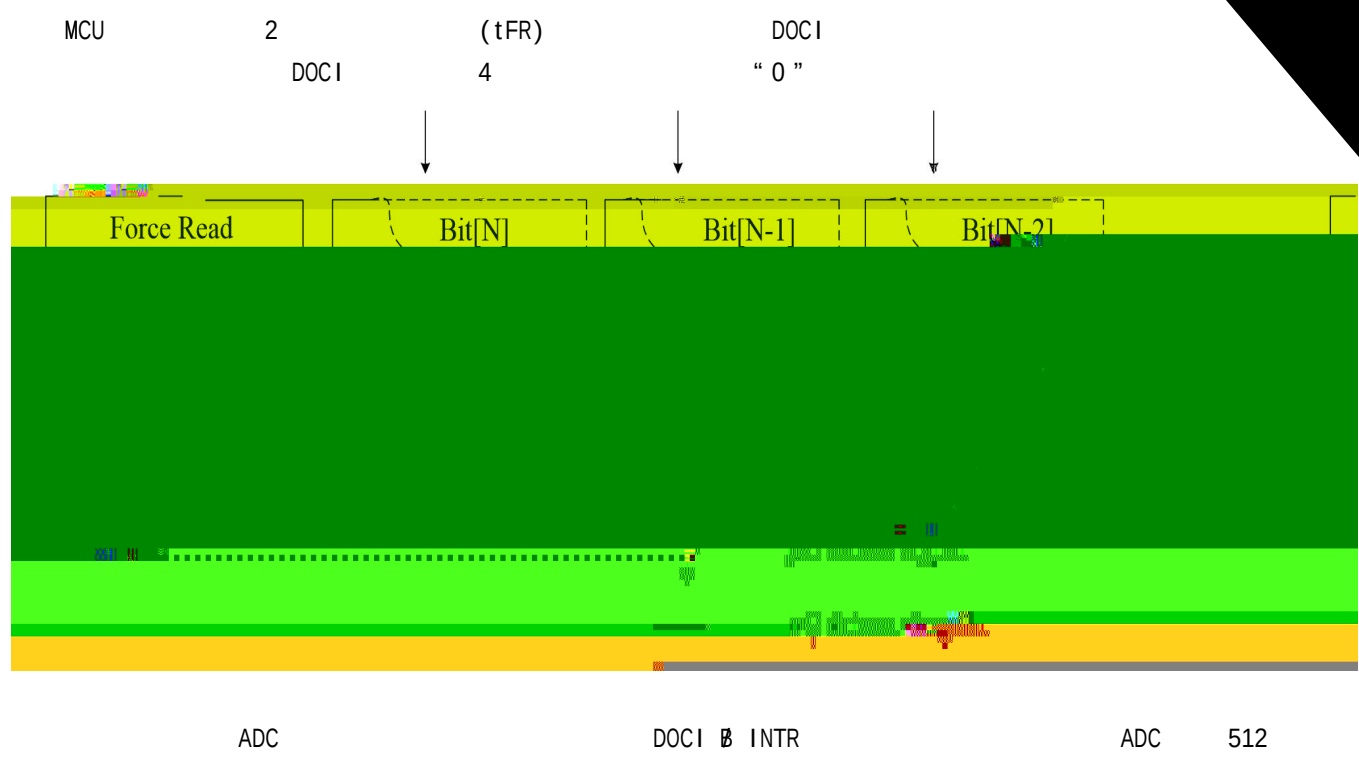
16



0 = 1 =

7) ADC

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





[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)

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

2)

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

4.2

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

4.3

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



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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



