

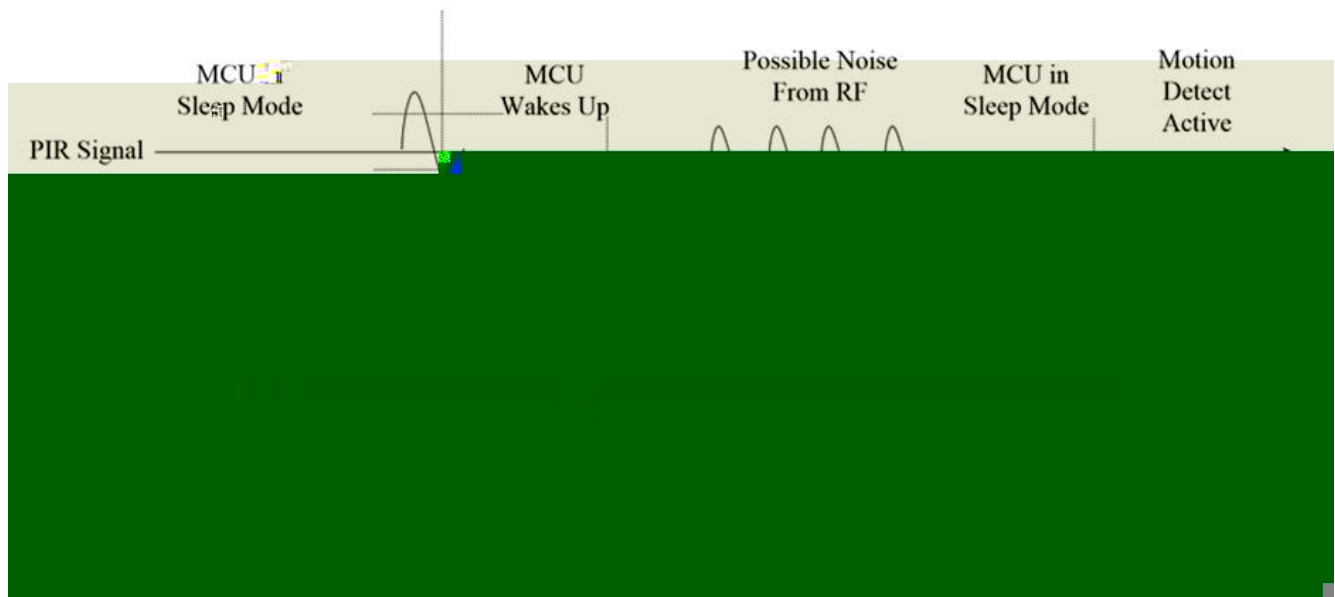






3.

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

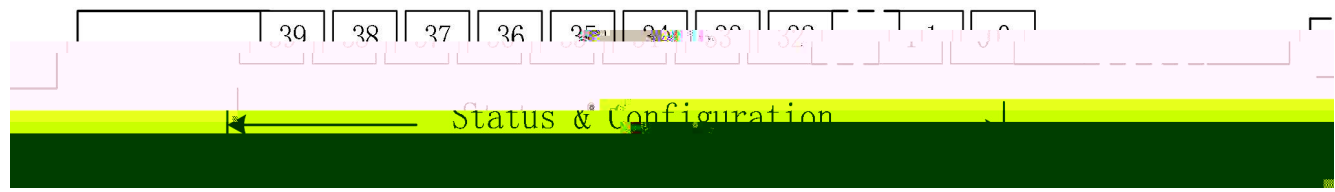
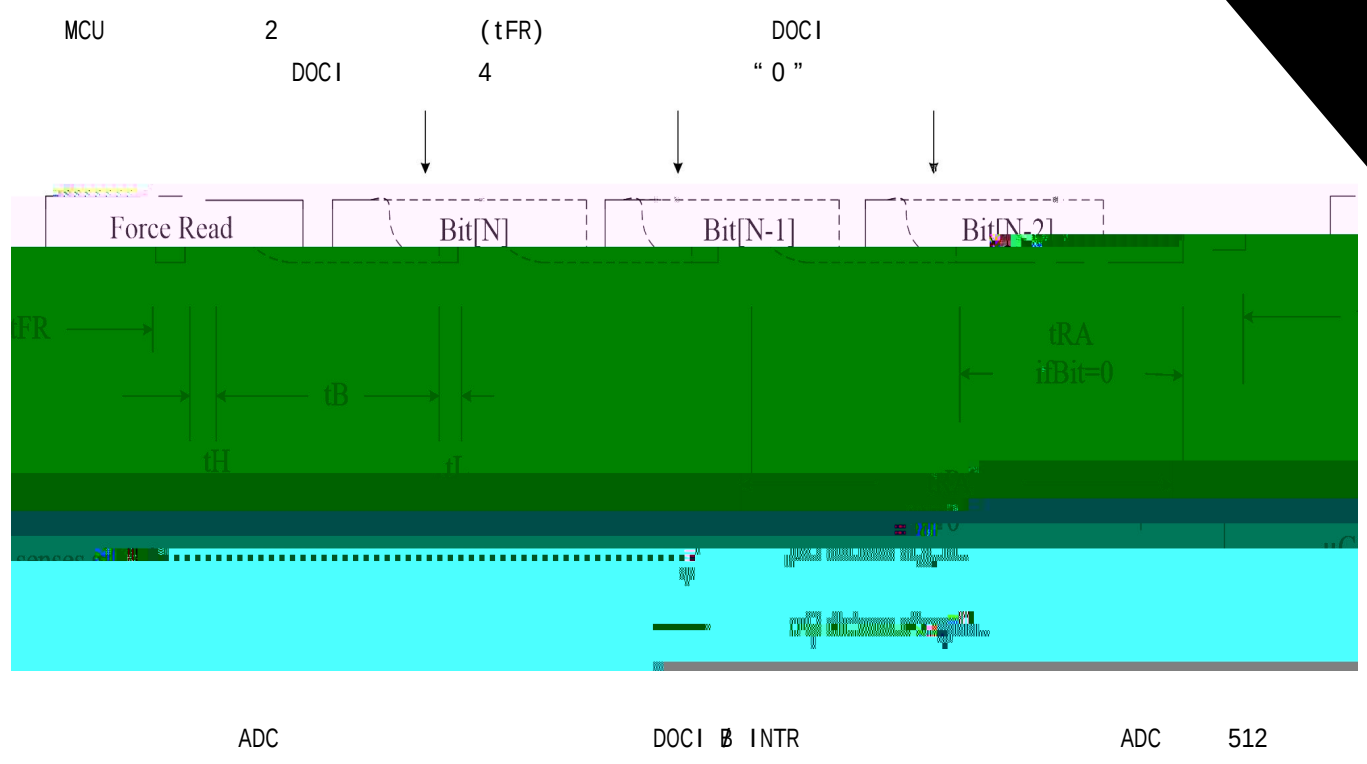
16



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)

$$\text{VPIR} = (\text{ADC}_{\text{out}} - \text{ADC}_{\text{offset}}) \times 6.5 \text{ v}$$

2)

$$\text{VPIR} = \text{ADC}_{\text{out}} \times 6.5 \text{ v}$$

4.2

$$\text{VDD} = (\text{ADC}_{\text{out}} - \text{ADC}_{\text{offset}}) \times 650 \text{ V.}$$

4.3

$$\begin{aligned} \text{ADC}_{\text{offset}}(\text{Tcal}) &= \text{Tcal} + (\text{ADC}_{\text{out}} - \text{ADC}_{\text{offset}}(\text{Tcal})) / 80 \times \text{count} / K \\ \text{ADC}_{\text{offset}} &= \text{ADC}_{\text{offset}}(\text{Tcal}) @ \text{VIN} = 0 = 2^{13} \\ \text{ADC}_{\text{offset}}(\text{Tcal}) &= \text{ADC}_{\text{offset}}(\text{Tcal}) = 8200 @ 300\text{k} \end{aligned}$$





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



