

DUTY CYCLE CALCUALTION:- Model- NBS5800

Out duty cycle is very low (<1%). The application uses less than 2Kbytes of data per transaction (one 802.11 frame=2346 Bytes). At 11Mb/s data rate it is maximum 2.1327ms per frame:

$2346\text{Bytes} \times 10\text{bits} = 23460\text{ bits}$
 $23460\text{bits} / (11\text{mb/s}) = 2.1327\text{ms}$

In our application the time between transactions is 10sec minimum (very conservative estimate, typically it is 1-2 minutes). That makes

$2.13\text{ms} / 10\text{s} \times 100 = 0.00213\%$

Obviously our duty cycle is way bellow 1%!

Best Regards,

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