









	Active	Idle	Sleep	1000
CPU	5 mA	2 mA	5 µA	
Radio	7 mA (TX)	4.5 mA (RX)	5 µA	
EE-Prom	3 mA	0	0	Panasoni
LED's	4 mA	0	0	CR2354
Photo Diode	200 µA	0	0	560 mA
Temperature	200 µA	0	0	
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components	Packet reception work breakdown	CPU Utilization	Energy (nj/Bit)
	0.05%	0.20%	0.33
ket	1.12%	0.51%	7.58
itio handler	26.87%	12.16%	182.38
adio decode thread	5.48%	2.48%	37.2
FM	66.48%	30.08%	451.17
adio Reception	-		1350
dle	-	54.75%	<u> </u>
otal	100.00%	100.00%	2028.66





















```
interface Clock {
    command result_t setRate(char interval, char scale);
    event result_t fire();
}
interface Send {
    command result_t send(TOS_Msg *msg, uint16_t length);
    event result_t sendDone(TOS_Msg *msg, result_t success);
}
interface ADC {
    command result_t getData();
    event result_t dataReady(uint16_t data);
}
Bidirectional interface supports split-phase operation
    CSE 521S
```







































