

PacSat Current Requirments  
 22/12/14  
 N5BRG  
 Assumes design is similar to Fox  
 Assumes 25 Degrees C  
 All values are in milliAmps

Device	Function	Clk Rate	Voltage	Qty	1X Active Current Write	1X Active Current Read	1X Standby	1X Sleep Current	Estimated Current	Power	Notes
TMS570	CPU	160 MHz	Vcc	1.2	1	160			160	192	
			Pipeline Mode	Vcp		3.3	6	6	3	9.9 If A/D useds 3ma each	
			Vio	3.3		30	15	20	66		
LBIST/PBIST mode	** Reduce current by .85/MHz,below 160 MHz	80 MHz	Vcc	1.2	1	215					
			Vcp	3.3		6	6				
			Vio	3.3		30	15				
** Reduce current by .85/MHz, below 160 MHz			Vcc	1.2	1	215					
			Vcp	3.3		6	6				
			Vio	3.3		30	15				
AX5043	Radio TXRX		3.3	5	6			30	99		
MMZ09312BT1	TX Power Amp		Vcc	5	1	74			74	370	
			Vbias	5	1	4			4	20	
	RX Amp/Divider		Vcc	5	1						
	RBP-140+		Filter	0	1	0					
	5VA-331+		PreAmp	5	1	5			5	25	
	SCPS-4-62+		Devider	0	1	0					
MR25H40	MRAM	2 MHz	3.3	4	9.3	6.4	0.081	0.002	18.6	61.38	Per Burns measurments
MAX1556A 95% Eff	VREG		8 Bat V	2	8			0.016	16	128	
DS28E83	1Wire Sec		3.3	1	0.12				0.12	0.396	
STWD100NTWY3F	WDogT		3.3	1	0.013		0.013	0.013	0.013	0.0429	
MAX4995	I limit		3.3	4	0.17		0.17	0.17	0.17	0.561	
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									Total Po	972	