

ACM328 - FCC COMPLIANCE NOTES

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REVISION HISTORY

Version	Change Summary	Date	Author
0.00	Original Version	24/05/2005	BS1

Internal reference :

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1 OPERATING POWER LEVELS

Power control level PCL	Nominal transmit power level (dBm)	
	GSM850	PCS1900
0	-	29.3
1	-	27.0
2	-	25.0
3	-	23.5
4	-	22.0
5	32.0	20.0
6	30.0	18.0
7	28.0	16.0
8	26.5	14.0
9	25.0	12.0
10	23.0	10.0
11	21.0	8.0
12	19.0	6.0
13	17.0	4.0
14	15.0	2.0
15	13.0	0
16	11.0	-
17	9.0	-
18	7.0	-
19	5.0	-

2 DC VOLTAGES AND CURRENTS

The module requires a single DC supply. It is designed to operate over the voltage range of a Li-Ion or NiMH battery:

- Minimum operating voltage: 3.3 VDC
- Recommended maximum operating voltage: 4.2 VDC
- Absolute maximum operating voltage: 4.3 VDC

Note that due to the current and voltage discharge characteristics of NiCd and Pb batteries, these types of battery chemistry are *not* supported by the module.

Current consumption figures (estimated) are:

Mode	Current
Idle Mode – (paging repeat rate of 5)	3 mA typical
In Call (average current for 1 Rx, 1 Tx CS operation)	250 mA typical
In Call (average current, 1 Rx, 2 Tx GPRS operation)	500 mA typical
In Call - peak current	1700 mA typical
GPRS 3 slot receive, 2 slot transmit	560 mA typical
GPRS 4 slot receive, no transmit slots	125 mA typical
Off	40µA typical

3 TUNE-UP PROCEDURES

The RF subsystem is calibrated at time of manufacture. User adjustment of calibrated RF power levels and frequencies is not possible.