5	4	3	2	1
D				D
C MAIN SYSTEM	CONTROL VOLATGE OR ON/OFF SWITCH	MAIN RELAY L LED		C CELLS
B	LOW NOISE POWER SUPPLY OUTPUT	OPTIONAL DELAY SURGE RELAY BATTERY TPUT LED BATTERFAC	CHARGER E	IAL CHARGER
A 5	4	3	Title BATTERY MANAGEME Size A Document Number A DES Date: Thursday, February 14, 2013	A INT BOARD BLOCK DIAGRAM IGN BY IAN Sheet 2 of 5



Standard configuration

J6 or J7 : Control voltage input J1 or J2: Charger input J8 or J9: Battery input J3 and J5 or J4: Output J4 optional output monitoring J10 potional battery monitoring K2 or K3: Relay D4: IN4148 F1: MICROSMD110F-2 or just short R4: 0 ohm 2010 or just short R1 and R2: 1K 0603 D2 and D3: LED 0603 Current limiting configuration J6 or J7 : Control voltage input J1 or J2: Charger input J8 or J9: Battery input J3 and J5 or J4: Output J4 optional output monitoring J10 potional battery monitoring K2 or K3 and K1 or K4: Relay D4,D5, D6: IN4148 F1: MICROSMD110F-2 or just short R3,R4,R5: 3.6 ohm 2010 R1 and R2: 1K 0603 D2,D3: LED 0603 C1,C2 100n 0603 C1 10u 1206 R6 47K 0603 (adjust to change the delay time) U1 555 SOTC8 296-14635-1-ND

Possible Part Numbers

Relays: G2RL-2 DC5, Z3087-ND G2R-2-DC5, G2R-2-DC5-ND 8-1393792-5, PB383-ND Or function and pin to pin compatible

Connectors: PH2.0mm 2P DIP, 455-1704-ND 1935161 TERM BLOCK PCB 2POS 5.0MM, 277-1667-ND BERGSTIK II .100" SR STRAIGHT , 609-3500-ND

Other components: FUSE: MICROSMD110F-2 RES 3.3ohm 2010 RHM3.3BGCT-ND LED CHIPLED 587NM YLW 0603 SMD, 475-2558-1-ND RES 1.0K OHM 1/10W 5% 0603 SMD, 311-1.0KGRCT-ND 555 296-14635-1-ND

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le	BATTERY MANAGEMENT BOARD APPLICATION NOTE						
ze A	Document Number Design by: Ian					Rev 2.5	
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2 1							



