PIN#	NAME	ATMEGA169 FUNCTIONS											BTFLY		Application
		CLK	INTER	LCD	ANALG	USART	USI	TWI	SPI	JTAG	TIMER/CNTR		assign	Connect	assign
1	LCDCAP												LCDCAP		
2	PE0		PCINT0			RxD							RS232 rec	J406-1	
3	PE1		PCINT1			TxD							RS232 xmt	J406-2	
4	PE2		PCINT2		AIN0	XCK							LEFT PB		
5	PE3		PCINT3		AIN1								RIGHT PB		
6	PE4		PCINT4			USCK		SCL						J405-1	reset button
7	PE5		PCINT5				DI	SDA						J405-2	standby button
8	PE6		PCINT6				DO							J405-3	Light sensor input
9	PE7	CLK0	PCINT7												
10	PB0		PCINT8						/SS					J400-1	
11	PB1		PCINT9						SCK					J400-2	
12	PB2		PCINT10						MOSI					J400-3	
13	PB3		PCINT11						MISO					J400-4	
14	PB4		PCINT12								OCOA(TC0)	PWMA2	PUSH PB	J400-5	
15	PB5		PCINT13								OC1A(TC1)	PWMB1	Beeper	J400-6	
16	PB6		PCINT14								OC1B(TC1)	PWMA1	UP PB	J400-7	
17	PB7		PCINT15								OC2A(TC2)	PWMA0	DWN PB	J400-8	
18	PG3			SEG24							T1		LCD19		
19	PG4			SEG23							T0		LCD17		
20	/RESET												~RESET	J402-6	
21	VCC														
22	GND														
23	XTAL2	TOSC2													
24	XTAL1	TOSC1												J402-10	
25	PD0			SEG22							ICP1		LCD15	J401-1	
26	PD1		INT0	SEG21									LCD16	J401-2	
27	PD2			SEG20									LCD18	J401-3	
28	PD3			SEG19									LCD13	J401-4	
29	PD4			SEG18									LCD11	J401-5	
30	PD5			SEG17									LCD12	J401-6	
31	PD6			SEG16									LCD14	J401-7	
32	PD7			SEG15									LCD9	J401-8	
33	PG0			SEG14									LCD21		
34	PG1			SEG13									LCD20		
35	PC0			SEG12									LCD10		
36	PC1			SEG11									LCD7		
37	PC2			SEG10									LCD23		
38	PC3			SEG9									LCD22		
39	PC4			SEG8									LCD8		
40	PC5			SEG7									LCD5		
41	PC6			SEG6									LCD26		
42	PC7			SEG5									LCD25		
43	PG2			SEG4									LCD6		
44	PA7			SEG3									LCD4		
45	PA6			SEG2									LCD29		
46	PA5			SEG1									LCD28		
47	PA4			SEG0									LCD27		
48	PA3			COM3									COM3		
49	PA2			COM2									COM2		
50	PA1			COM1									COM1		
51	PA0			COM0									COM0	J402-8	
52	VCC														
53	GND														
54	PF7				ADC7					TDI				J402-9	
55	PF6				ADC6					TDO				J402-3	
56	PF5				ADC5					TMS				J402-5	
57	PF4				ADC4					TCK				J402-1	
58	PF3				ADC3								VCP OUT		
59	PF2				ADC2								Light		
60	PF1				ADC1								Voltage	J407-1	Battery sense input
61	PF0				ADC0								Temperat.		
62	AREF				AREF								VCP		
63	AGND				AGND								AnGND		
64	AVCC				AVCC								AnVCC		
GND	J400-9	J401-9	J405-4	J406-3	J407-2										
VCCext		J400-1	J401-10	J402-4											