MAIN BOARD (BOTTOM) PIN MAP

			LP	PLC
POWER JACK (24V DC)				
			PL_4	1
			PL_5	2
			PM_5	3
			PM_4	4
RX (2)			PA_6	5
		A4	PD_7	6
CLK (2)		A12	PD_3	7
SCL (0)			PB_2	8
SDA (0)			PB_3	9

			LP	PLC
Reg (3.5A)	+5V			10
Reg (3.5A)	+5V			11
LaunchPad			+5V	12
	GND			13
	GND			14
	GND			15
LaunchPad			+3.3V	16
LaunchPad			+3.3V	17
LaunchPad			+3.3V	18

			LP	PLC
CS (2)		A13	PD_2	19
		A7	PD_4	20
		A6	PD_5	21
		A19	PK_3	22
		A18	PK_2	23
TX (4)		A17	PK_1	24
RX (4)		A16	PK_0	25
SCL (1)			PN_5	26
SDA (1)			PN_4	27

PLC	LP	CPN	CONN	INFO
54	PP_2	SSR	AC	120V
53			AC	MAX8A
52	PL_2	RELAY 2	O2	
51			O1	Closed
50			IN	
49	PL_3	RELAY 1	O2	
48			O1	Closed
47			IN	
46		GND		

PLC	LP	CPN	CONN	INFO
45		+24V	Power supply	
44	PG_1	INPUT 4	IN-	
43			IN+	10~24V
42	PK_4	INPUT 3	IN-	
41			IN+	10~24V
40	PK_5	INPUT 2	IN-	
39			IN+	10~24V
38	PM_0	INPUT 1	IN-	
37			IN+	10~24V

PLC	LP	CPN	CONN	INFO
36		+24V		
35		+24V		
34		+24V		
33	PM_1	OUT6	LOW	
32	PM_2	OUT5	LOW	
31	PH_0	OUT4	LOW	
30	PH_1	OUT3	LOW	
29	PK_6	OUT2	LOW	
28	PK_7	OUT1	LOW	

Legend
I2C
Serial UART
SPI
analogRead()
digitalRead(), digitalWrite()
PWM: digitalRead(), digitalWrite(), analogWrite()

GPIO (TOP) PIN MAP

		LP	GPIO		GPIO	LP		
MOSI(1)	A9	PE_4	1		26	PE_5	A8	MISO(1)
CLK(1)	A11	PB_5	2		25	PB_4	A10	CS(1)
SCL (2)		PL_1	3		24	PL_0		SDA (2)
TX (3)		PA_5	4		23	PA_4		RX (3)
MISO(2)	A15	PD_0	5		22	PE_0	A3	
		PN_2	6		21	PE_1	A2	
		PN_3	7		20	PE_2	A1	
		PM_7	8		19	PE_3	A0	
		PM_6	9		18	PM_3		
TX (2)		PA_7	10		17	PH_2		
MOSI(2)	A14	PD_1	11		16	PH_3		
		+3.3V	12		15	+5V		
		GND	13		14	RESET		

1602 LCD DISPLAY PIN MAP

LCD PIN	PIN NAME	LAUNCHPAD
1	GND	GND
2	VCC	+5V
3	Contrast	Potentiometer
4	RS	PP_4
5	R/W	GND
6	EN	PQ_0
7	DB0	GND
8	DB1	GND
9	DB2	GND
10	DB3	GND
11	DB4	PP_1
12	DB5	PP_0
13	DB6	PC_7
14	DB7	PC_6
15	BL+	+5V
16	BL-	GND

LED / BUTTONS PIN MAP

NAME (L>>R)	LAUNCHPAD
GREEN LED	PG_0
YELLOW LED	PF_3
RED LED 1	PF_2
RED LED 2	PF_1
BUTTON 1	PQ_1
BUTTON 2	PP_3
BUTTON 3	PQ_3
BUTTON 4	PQ_2
BLUE SMD LED	PP_5