RPI

J1
Raspberry_PI_2_3

Pin	Name		Name	Pin
rpi_8	GPIO14/TXD		ID_SD/GPIO0	rpi_27
rpi_10	GPIO15/RXD		ID_SC/GPIO1	rpi_28
rpi_36	GPIO16		SDA/GPIO2	rpi_3
rpi_11	GPIO17		SCL/GPIO3	rpi_5
rpi_12	GPIO18/PWM0			
rpi_35	GPIO19/MISO1		GCLK0/GPIO4	rpi_7
rpi_38	GPIO20/MOSI1		GCLK1/GPIO5	rpi_29
rpi_40	GPIO21/SCLK1		GCLK2/GPIO6	rpi_31
rpi_15	GPIO22		CE1/GPIO7	rpi_26
rpi_16	GPIO23		CE0/GPIO8	rpi_24
rpi_18	GPIO24		MISO0/GPIO9	rpi_21
rpi_22	GPIO25		MOSI0/GPIO10	rpi_19
rpi_37	GPIO26		SCLK0/GPIO11	rpi_23
rpi_13	GPIO27		PWM0/GPIO12	rpi_32
			PWM1/GPIO13	rpi_33

GND

Logic Level Shifting

+5V
+3.3V

C1 0.1uF
C2 0.1uF

GND

U1 TXB0108PWR
U2 TXB0108PWR
U3 TXB0108PWR
U4 TXB0108PWR

GND

IO Header

J4
rpi_extension_conn

J5
rpi_extension_5V_conn

+3V3 +3.3V

+5V +5V

GND

+5V +5V

GND

Enable Circuit

+5V

J2 Ext_EN

rpi_37

R1 470R

D1 D

D2 D

R2 100R

D3 LED_red

GND

LED_red D4

EN

R3 10K

GND

Power IN/OUT

+5V

J3 PWR_5V

GND