

BCM	wPi	Name	Physical	EZ Connect	PWM Hat
-	-	3.3V	1	3.3V	3.3V
2	8	SDA.1	3	G2, P3	SDA
3	9	SCL.1	5	G3, P5	SCL
4	7	GPIO.7	7	G4, P7	
-	-	0V	9	GND	GND
17	0	GPIO.0	11	G17, P11	
27	2	GPIO.2	13	G27, P13	
22	3	GPIO.3	15	G22, P15	
-	-	3.3V	17	3.3V	
10	12	MOSI	19	G10, P19	
9	13	MISO	21	G9, P21	
11	14	SCLK	23	G11, P23	
-	-	0V	25	GND	GND
0	30	SDA.0	27		
5	21	GPIO.21	29	G5, P29	
6	22	GPIO.22	31	G6, P31	
13	23	GPIO.23	33	G13, P33	
19	24	GPIO.24	35	G19, P35	
26	25	GPIO.25	37	G26, P37	
-	-	0V	39		

-	-	5V	2	5V	5V
-	-	5V	4		
-	-	0V	6	GND	GND
14	15	TxD	8	G14, P8	
15	16	RxD	10	G15, P10	
18	1	GPIO.1	12	G18, P12	
-	-	0V	14	GND	GND
23	4	GPIO.4	16	G23, P16	
24	5	GPIO.5	18	G24, P18	
-	-	0V	20		
25	6	GPIO.6	22	G25, P22	
8	10	CEO	24	G8, P24	
7	11	CE1	26	G7, P26	
1	31	SCL.0	28		
-	-	0V	30		
12	26	GPIO.26	32	G12, P32	
-	-	0V	34		
16	27	GPIO.27	36	G16, P36	
20	28	GPIO.28	38	G20, P38	
21	29	GPIO.29	40	G21, P29	

		+5.0V Digital Regulator	
microUSB	+5V	OUT+	
microUSB	GND	OUT-	Battery
		IN+	+11V
		IN-	GND

Eddie

EZ Connect	H-bridge left	H-bridge right	IMU	GPS Parallax 565K	LIDAR Lite v3
3.3V	"+5V"				
G2, P3			SDA (White, Blue)		SDA (Blue)
G3, P5			SCL (Yellow)		SCL (Green)
G4, P7	IN1				
GND	GND				
G17, P11	IN2				
G27, P13	IN3				
G22, P15	IN4				
3.3V		"+5V"			
G10, P19					
G9, P21					
G11, P23					
GND					GND (Black)
G5, P29					
G6, P31					
G13, P33					
G19, P35					
G26, P37					
5V			VCC (Red)		
5V				VCC	
GND			GND (Black)		
G14, P8					
G15, P10				SIO	
G18, P12		IN1			
GND				GND & /RAW	
G23, P16		IN2			
G24, P18		IN3			
G25, P22		IN4			
G8, P24					
G7, P26					
G12, P32					
G16, P36					
G20, P38					
G21, P29					
5V					VCC (Red)
5V					
3.3V					
3.3V					
GND		GND			
GND					

Eddie

PWM Hat		Arm	Pan-Tilt Camera	H-bridge left	H-bridge right
Channel	Pin				
0	SIG	Base			
0	VCC	Base			
0	GND	Base			
1	SIG	Shoulder			
1	VCC	Shoulder			
1	GND	Shoulder			
2	SIG	Elbow			
2	VCC	Elbow			
2	GND	Elbow			
3	SIG	Wrist Rot			
3	VCC	Wrist Rot			
3	GND	Wrist Rot			
4	SIG	Wrist Flex			
4	VCC	Wrist Flex			
4	GND	Wrist Flex			
5	SIG	Gripper			
5	VCC	Gripper			
5	GND	Gripper			
6	SIG		Pan		
6	VCC		Pan		
6	GND		Pan		
7	SIG		Tilt		
7	VCC		Tilt		
7	GND		Tilt		
8	SIG			ENA	
8	VCC				
8	GND				
9	SIG			ENB	
9	VCC				
9	GND				
10	SIG				ENA
10	VCC				
10	GND				
11	SIG				ENB
11	VCC				
11	GND				

Eddie

+5V					
GND					

Eddie

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Eddie

+5.5V Motor Regulator	
OUT+	
OUT-	Battery
IN+	+11V
IN-	GND

BCM	wPi	Name	Physical	PiJuice
-	-	3.3V	1	3.3V
2	8	SDA.1	3	SDA
3	9	SCL.1	5	SCL
4	7	GPIO.7	7	
-	-	0V	9	GND
17	0	GPIO.0	11	
27	2	GPIO.2	13	
22	3	GPIO.3	15	
-	-	3.3V	17	3.3V
10	12	MOSI	19	
9	13	MISO	21	
11	14	SCLK	23	
-	-	0V	25	GND
0	30	SDA.0	27	SDA
5	21	GPIO.21	29	
6	22	GPIO.22	31	
13	23	GPIO.23	33	
19	24	GPIO.24	35	
26	25	GPIO.25	37	
-	-	0V	39	GND

-	-	5V	2	5V
-	-	5V	4	5V
-	-	0V	6	GND
14	15	TxD	8	
15	16	RxD	10	
18	1	GPIO.1	12	
-	-	0V	14	GND
23	4	GPIO.4	16	
24	5	GPIO.5	18	
-	-	0V	20	GND
25	6	GPIO.6	22	
8	10	CEO	24	
7	11	CE1	26	
1	31	SCL.0	28	SCL
-	-	0V	30	GND
12	26	GPIO.26	32	
-	-	0V	34	GND
16	27	GPIO.27	36	
20	28	GPIO.28	38	
21	29	GPIO.29	40	