Pin	ATmega32U4	Arduino Pin Name	Misc.	LEDs	EH-MC17	DRV8848 Motor Driver	3DoT Shield Header	3DoT Sensor Header	SERVO A	SERVO B	IR Sensor Shield	Wheel Encoder Shield
1	PE6 (INT.6/AIN0)	D7										
2	Uvcc											
3	D-											
4	D+											
5	UGnd											
6	UCap											
7	VBus											
8	PB0 (SS/PCINT0)	D17 (SS)					J5-4 SS					
9	PB1 (PCINT1/SCLK)	D15 (SCK)					J5-3 SCK					
10	PB2 (PDI/PCINT2/MOSI)	D16 (MOSI)					J5-2 MOSI					
11	PB3 (PDO/PCINT3/MISO)	D14 (MISO)					J5-1 MISO					
12	PB7 (PCINT7/OC0A/OC1C/RTS)	#D11				AIN1/PWMA						
13	RESET						J3-1 RESET					
14	VCC						J3-6 v3.3	J2-3 v3.3				
15	GND						J3-7 GND	J2-4 GND				
16	XTAL2											
17	XTAL1											
18	PD0 (OC0B/SCL/INT0)	#D3					J3-2 SCL	J2-1 SCL				
19	PD1 (SDA/INT1)	D2					J3-3 SDA	J2-2 SDA				
20	PD2 (RXD1/INT2)	D0/RX1			TX		J3-4 RX					
21	PD3 (TXD1/INT3)	D1/TX1			RX		J3-5 TX					
22	PD5 (XCK1/CTS)	TXLED		BLINK								
23	GND						J5-7 GND					
24	AVCC											
25	PD4 (ICP1/ADC8)	D4/A6							SIG W - 1			
26	PD6 (T1/OC4D/ADC9)	D12/A10								SIG W - 1		
27	PD7 (T0/OC4D/ADC10)	#D6/A7				AIN2						
28	PB4 (PCINT4/ADC11)	D8/A8										
29	PB5 (PCINT5/OC1A/OC4B/ADC1	#D9/A8										
30	PB6 (PCINT6/OC1B/OC4B/ADC1	#D10/A10				BIN2						
31	PC6 (OC3A/OC4A)	#D5										
32	PC7 (ICP3/CLK0/OC4A)	#D13				BIN1/PWMB						
33	PE2 (/HWB)		Ext. SW									
34	VCC											
35	GND											
36	PF7 (ADC7/TDI)	A0/D18									IR_R_O	
37	PF6 (ADC6/TDO)	A1/D19									IR_R_I	
38	PF5 (ADC5/TMS)	A2/D20									IR_L_I	
39	PF4 (ADC4/TCK)	A3/D21									IR_L_O	
40	PF1 (ADC1)	A4/D22	TP1				J5-6 A4					
41	PF0 (ADC0)	A5/D23	VBATT_LVL									
42	AREF						J5-5 AREF					
43	GND											
44	AVCC											