

Arduino Pin	IDE Pin	Signal	Function	Details
0	0	*Serial RX	Default serial communications	Serial communication on the Arduino are mirrored on these pins by default. Data can be monitored in the IDE using the serial monitor. You can also use these pins for other purposes.
1	1	*Serial TX	Default serial communications	
2	2	RS LED On	Used by IR Sensor illumination LEDs	These LEDs illuminate the surface for the sensors. Turn these off for high light conditions.
~3	3	Buzzer Control	Used by Zumo for audio out	
4	4	RS Left	Used by IR Sensor	These are the inputs from the outer two sensors on the reflectance array at the front of the Zumo.
~5	5	RS Right	Used by IR Sensor	
~6	6			
7	7	Right Mot Dir	LOW = Forward, HIGH = Backward	These pins are tied to the dual H bridge that runs the tracks.
8	8	Left Motor Dir	LOW = Forward, HIGH = Backward	
~9	9	Right Mot PWM	Used by motor driver	
~10	10	Left Mot PWM	Used by motor driver	
~11	11			
12	12	User Button	Low = Button Pushed	This is the little user button at the back.
13	13	*Yellow LED	HIGH = LED on	This LED is the little yellow status LED on the side. It can be used for other functions.
A0	A0			
A1	A1	*Battery Level	Voltage divider output	You can use a voltage divider to read the how much power is left in your battery pack.
A2	A2			
A3	A3			
A4	A4	SDA	Used by Accelorometer & Compass	These pins are connected to the accelorometer and magnetometer. You can use these to detect things like impacts and orientation. Note that you will have to turn off the motors and take the compass reading while stationary to get a proper reading.
A5	A5	SCL	Used by Accelorometer & Compass	

Note: * These pins can be rerouted to handle other functions as needed by your design.

Zumo Configuration Notes: