

Port	Description	Pin
1	Vcc for the right IR sensor	IR Module – Vcc 1
2	Ground for the right IR sensor	IR Module – GND 1
3	Output of the right IR sensor	IR Module – IN1
4	Vcc for the middle IR sensor	IR Module – Vcc 2
5	Ground for the middle IR sensor	IR Module – GND 2
6	Output of the middle IR sensor	IR Module – IN2
7	Vcc for the left IR sensor	IR Module – Vcc 3
8	Ground for the left IR sensor	IR Module – GND 3
9	Output of the left IR sensor	IR Module – IN3
10	Right IR Output to the Arduino	Arduino - 41
11	Middle IR Output to the Arduino	Arduino - 42
12	Left IR Output to the Arduino	Arduino - 43
13	RFID - SDA	Arduino - 53
14	RFID - SCK	Arduino - 52
15	RFID - MOSI	Arduino - 51
16	RFID - MISO	Arduino - 50
17	RFID – RST	Arduino - 5
18	RFID – Voltage input	Arduino - 3.3v pin
19	Left Motor – A	Motor Driver – Out 1
20	Left Motor – B	Motor Driver – Out 2
21	Right Motor – A	Motor Driver – Out 3
22	Right Motor – B	Motor Driver – Out 4
23	Motor Driver input to control the left motor A	Arduino – 6
24	Motor Driver input to control the left motor B	Arduino – 7
25	Motor Driver input to control the right motor A	Arduino – 8
26	Motor Driver input to control the right motor B	Arduino – 9
27	Trig pin of the right ultrasonic	Arduino – 46
28	Echo pin of the right ultrasonic	Arduino – 47
29	Trig pin of the left ultrasonic	Arduino – 48
30	Echo pin of the left ultrasonic	Arduino – 49
31	Trig pin of the back ultrasonic	Arduino – 44
32	Echo pin of the back ultrasonic	Arduino – 45