

Top Board			
Item	Component	Qty.	Description
1	Printed Circuit Board	1	doogie_top_board
2	Raspberry Pi	1	Raspberry Pi Zero W
3	Micro Sd	1	Memory Card microSD 16GB Class 10 SanDisk
4	Voltage Regulator	1	5V voltage regulator Pololu Step-Up U1V10F5
5	Imu	1	3 axes accelerometer and gyro 6-DOF MPU 6050
6	A / D Converter	1	Analog Digital Converter channels 4 ADS1115
7	Analog Multiplexer	1	Module Multiplexers 74HC4051 8 channels Sparkfun
8	Pin Male Bar 1X12	1	Pin bar 1×40 180° 20mm
9	Pin Bar Male 2X40	1	Pin bar 2×40 180°
10	Pin Female Bar 2X20	1	Pin Bar 2 × 20 Male And Female
10	Push Button	2	Key Touch Push-Button
11	Led	2	3mm LEDs
12	Buzzer	1	Active buzzer 5V
13	Transistor	1	NPN transistor BC337
14	Diode	1	Rectifier diode 1N4007
15	Resistor	1	Resistor 750Ω 1 / 4W
16	Resistor	1	Resistor 390Ω 1 / 4W
17	Resistor	1	Resistor 820Ω 1 / 4W
18	Resistor	2	Resistor 10k 1 / 4W

Bottom Board			
Item	Component	Qty.	Description
1	Printed Circuit Board	1	doogie_bottom_board
2	Voltage Regulator	1	Boost Converter DC Adjustable Step Up
3	H Bridge	1	TB6612FNG Dual Motor Driver Carrier
4	Pin Female Bar 1X12	1	Pins bar 1 × 40 Female 180°
5	Pin Male Bar 2X3	2	Pin bar 180° 2 x 40 (used on the board top)
6	Connector	1	Connector JST XH male wrapped
7	3 Terminals Switch	2	Switch 3 Terminals Toggle Switch SPDT
8	Phototransistor	4	Infrared Phototransistor 5mm IR receiver
9	Infrared Emitter	4	Infrared IR transmitter LED 5mm
10	Transistor	3	NPN transistor BC337
11	Mosfet	1	P-Channel MOSFET TO220 IRF4905
12	Resistor	1	Resistor 33Ω 1 / 4W
13	Resistor	2	Resistor 47Ω 1 / 4W
14	Resistor	3	Resistor 680Ω 1 / 4W
15	Resistor	4	Resistor 1k8Ω 1 / 4W
16	Motor	2	30: 1 Micro Metal Gearmotor HP 6V motor shaft extended
17	Pair Of Magnetic Encoder	1	Pair of magnetic metal micro motor encoder Gearmotors, 12 CPR 2.7-18V
18	Pair Of Wheels	1	Pololu wheel pair 32 × 7mm
19	Par Motor Brackets	1	Motor Bracket - 3D Printing
20	IDC Female connector	2	IDC female connector - 6-way
21	Flat Cable	1	Flat Cable - 6 parts (1m)
22	Battery	1	Li-Ion 18650 3.7V 2200mAh 2C
23	Support For Battery	1	Support for battery 18650

Auxiliaries			
Item	Component	Qty.	Description
1	USB/Micro USB Adapter	2	Cable USB to Micro USB
2	HDMI/Mini HDMI Adapter	1	HDMI Female Adapter Mini HDMI Male