

Component	Pin	Function / Role	Source Ref	Output Ref	Electrical Inputs		Temperature		Power + Efficiency			Noise + Ripple Design		Passive Components		Protection / Documentation			Name	Date sheet	Design	Distributor						
					V_in (V)	V_out (V)	I_ipk (mA)	I_peak (mA)	trace_in	I_peak_out (mA)	trace_out	Duty (%)	P_out (mW)	η (%)	P_in (mW)	P_low (mW)	Noise Sensitivity	Allowed Ripples/Noise (mVpp)	Ext. Ripple (mVpp)	Post Filter Type	Local Capacitance (F)	Resistor (Ω)	Inductance (H)	Protection				
Zee 2.0 LiPo Battery 220mAh 7.4V DC/DC Convertor with 0.1Ω Zener Diode	-	-	-	-	-	-	-	-	-	12 A	150 mili	540 mili	-	-	-	-	-	-	-	-	-	-	-	Two 3.7 V 1800 mAh Li-Po cells in series. Total capacity 7.4V 220 mAh. Full charge current 150 mA for all pins. No need 100 mA. No 1.2V zener diodes (ZD) 2.4-3.6V zener diodes (ZT) Lightning protection: PTC current drawn from battery cell.	1.15	you need connector on your board	Weonder	
LFD-210 servo	-	Digital I/O Positive pole of power supply Ground	-	Man power source	BAT_7.4V	-	-	7.4 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
LD-100MG servo	-	White WinchSignal input Black WinchSignal output Black WinConnect to ground	-	High-precision PWM digital servo used for base servos (above pins)	BAT_7.4V	-	-	7.4V	-	100 mA	3000 mA	75 mil	181 mil	-	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder
Buck 5V(T225)	-	White WinchSignal input Black WinchSignal output Black WinConnect to ground	-	High-precision PWM digital servo used for base servos (above pins)	BAT_7.4V	-	-	7.4V	-	100 mA	3000 mA	75 mil	181 mil	-	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder
T7 Motor 1	-	1 pin for power another to ground	-	Drive motor (Mecanum wheel)	Buck_5V	-	-	5V	-	100 mA (maximal)	1.2 A	-	51 mil	-	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder
T7 Motor 2	-	-	-	Drive motor (Mecanum wheel)	Buck_5V	-	-	5V	-	-	1.2 A	-	51 mil	-	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder
T7 Motor 3	-	-	-	Drive motor (Mecanum wheel)	Buck_5V	-	-	5V	-	-	1.2 A	-	51 mil	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder	
T7 Motor 4	-	-	-	Drive motor (Mecanum wheel)	Buck_5V	-	-	5V	-	-	1.2 A	-	51 mil	-	-	-	-	-	-	-	-	-	-	Ratio 1:42. Weight 20 g. Speed 150 RPM. Size 23x21x15 mm. Works with TurboPulseMaster/PulseCapN 4WD.	1.15	1.15	Weonder	
Motor Driver ICs 1x 1 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	You need 1x 12 V from power bus. Every time you pulse between them will it actually turn the DC motors.	1.15	1.15	Weonder	
Motor Driver ICs 1x 2 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 3 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 4 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 5 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 6 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 7 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 8 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 9 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 10 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 11 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 12 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 13 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 14 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 15 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 16 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 17 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 18 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 19 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 20 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 21 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 22 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 23 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 24 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 25 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 26 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 27 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 28 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 29 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 30 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 31 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 32 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 33 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 34 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 35 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 36 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 37 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 38 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 39 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 40 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 41 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 42 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 43 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 44 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 45 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 46 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 47 VM	-	-	-	-	-	-	-	-	-	0.9 A	23 mil	30 mil	-	-	-	-	-	-	-	-	-	-	-	-	1.15	1.15	Weonder	
Motor Driver ICs 1x 48 VM	-																											