

STARS4ALL		TESS-W	PCBs electronic parts	
Item	Quantity	Reference	Part	Price
1	6	C1,C3,C4,C5,C8,C9	100nF	0.01
2	1	C2	470uF/16	0.11
3	2	C6,C7	22uF/10	0.06
4	1	D1	SMBJ15A TVS diode	0.20
5	1	F1	2A Resettable fuse	0.29
6	2	J3,J1	5 Pin Connector 0.098" Through Hole	0.028
7	4	J4,J8,J9,J11	2 Pin Header, Shrouded Connector 0.098" (2.50mm) Through Hole	0.14
8	1	J5	3.5mm Pitch 2 pin Straight PCB Screw Terminal Blocks Connector	0.10
9	1	J6	Tactile Switches SPST 0.05A 12V	0.41
10	2	J7,U2	4 Position Header, Shrouded Connector 0.098" (2.50mm) Through Hole	0.29
11	1	Q1	FZT603TA Sot223	0.21
12	3	R1,R2,R7	1K2 SMD 1206	0.02
13	1	R3	2K2 SMD 1206	0.02
14	4	R4,R5,R6,R9	10K SMD 1206	0.02
15	1	R8	12K SMD 1206	0.02
16	1	TVS1	ESD PESD3V3L2BT	0.1
17	1	U1	AT89S4051 MCU 4K FLASH 24MHZ	2.5
18	1	U3	TSL 237SM Light To Frequency Converter	3
19	1	U4	ESP8266 Esp-07 Wifi module	2.8
20	2	U5,U6	LD1117S33CTR 3v3 SOT-223	0.3
21	1	Y1	11.059MHz Low profile	0.4
22	1	PCB	2 Layer Green PCB	2.5
External electronic parts				
23	1		MLX90614ESF-BAA Infrared IR Sensor	6.2
24	1		Metal resistance 10W	2.7
25	1		2.4Ghz 6dbi flat PCB antenna 58*26*1.5mm	2.8
26	1		Micro USB charging data cable adapter	2.0
27	1		4 Pin Connector 15cm 24AWG With Socket	0.18
28	1		2 Pin Connector 15cm 24AWG With Socket	0.14