

ID	Name	Designator	Footprint	Quantity	Manufacturer Part	Manufacturer	Supplier	Supplier Part	_Price	LCSC Assembly
1	HEADER-FEMALE-2.54_1X4 TH	ESP_PROG1	HDR-4X1/2.54	1	Header-Female-2.54_1x4	LCSC	LCSC	C44527	\$0.0323	
2	3.3K	SD_R5,SD_R6	0603	2	RC0603JR-073K3L	YAGEO	LCSC	C114432	\$0.001745	
3	3.3KΩ(332)	SD_R10,SD_R11	0603	2	RC0603JR-073K3L	YAGEO	LCSC	C114432	\$0.001745	
4	M-WifiEsp8266	MW1	M-WIFIESP8266	1	ESP-12F(ESP8266MOD)	Ai-Thinker	tostratonic	BTMWESP		
5	Terminal Block	P1	SCREW_TERMINAL-5MM-2	1	Screw Terminal Block: 2-Pin	Unknown	Master	Unknown		
6	ATMEGA2560-16AU	U5	TQFP-100_L14.0-W14.0-P0.50-LS16.0-BL	1	ATMEGA2560-16AU	MICROCHIP	LCSC	C22460	\$7.117344	Yes
7	22pf	X1_C2,X1_C1,X2_C8	C0603	3						
8	22pf	X2_C7	C0603	1			LCSC			
9	100nF	SD_C6	0603	1	CC0603KRX7R9BB104	YAGEO	LCSC	C14663	\$0.003414	
10	100nF	AS5_C12,AS5_C11,AS3_C13,AS3_C5	C0402	4	CC0402ZRY5V7BB104P	YAGEO	LCSC	C327414	\$0.0027	Yes
11	USB-MINI-5P-PEG	CN1	MICRO-USB-SMD_MINI 5P	1	USB-MINI-5P-PEG	ValuePro	LCSC	C69074	\$0.06377	
12	CH340G	U2	SOIC-16_L9.9-W3.9-P1.27-LS6.0-BR	1	CH340G	WCH	LCSC	C14267	\$0.360938	Yes
13	74LVC125APW,118	SD_U9	TSSOP-14	1	74LVC125APW,118	Nexperia	LCSC	C6059	\$0.11536	
14	4 pin push button	ESP_RST	4 PIN PUSH BUTTON	1						
15	2k	ESP_R8	R0603	1						
16	1K	TX_UB_R3,AS5_R1,AS3_R4,RX_UB_R2	R0603	4						
17	10k	ESP_R9	R0603	1						
18	1k	ESP_R7	R0603	1						
19	P2	DHT22	HDR-TH_3P-P2.54-V	1	Header-Female-2.54_1x3	Boom Precision Elec	LCSC	C146243	\$0.0445	
20	whiteLEDSMD	TX_LED3,RX_LED2,AS3_LED4,AS5_LED1	LED-0805	4	whiteLEDSMD	KENTO	LCSC	C34499	\$0.015	Yes
21	RX Jumper	RX_JUMP	HDR-TH_2P-P2.54-V	1	826629-2	TE Connectivity	LCSC	C86471	\$0.209086	
22	TX Jumper	TX_JUMP	HDR-TH_2P-P2.54-V	1	826629-2	TE Connectivity	LCSC	C86471	\$0.209086	
23	PROG JUMPER	PROG_JUMP	HDR-TH_2P-P2.54-V	1	826629-2	TE Connectivity	LCSC	C86471	\$0.209086	
24	16MHz	XTAL1	16MHZ_OSC [PCB]	1	OSC-16MHz	SHIVRAM	SHIVRAM	OSC-16MHz		
25	12MHz	XTAL2	16MHZ_OSC [PCB]	1	OSC-16MHz	SHIVRAM	SHIVRAM	OSC-16MHz		
26	AMS1117 3.3V	U1	AMS1117 3.3V	1	AMS1117-3.3	AMS	LCSC	C6186	\$0.099528	Yes
27	U4	BMP180	PIN_STRIP_4	1						
28	TF-15×15	CARD1	SD-MICRO-1	1	TF-15×15	SOFNG	LCSC	C111196	\$0.160703	
29	OLED 0.91" I2C	OLED1	OLED 0.91 INCH I2C	1			LCSC	C44527	\$0.0323	

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30	AMS1117 5V	U3	SOT-223_L6.5-W3.5-P2.30-LS7.0-BR	1	AMS1117-1.5	SK	LCSC	C166063	\$0.0496	Yes
31	CR2032-BS-2-1	B1	BAT-TH_BS-2-1	1	BS-2-1	Q&J	LCSC	C70376	\$0.060935	
32	10uF	AS3_C4,AS3_C3,AS5_C10,AS5_C9	C0805	4	CL21A106KPFNNNG	Samsung Electro-Mechanics	LCSC	C307523	\$0.0232	Yes
33	DS3231SN#	U6	SOIC-16_L10.3-W7.5-P1.27-LS10.3-BL	1	DS3231SN	MAXIM	LCSC	C9866	\$2.134688	