

QTY	Part	Value
1	C1	100u / 16v
7	C2, C3, C4, C5, C6, C7, C8	10u / 16v
59	C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C16, C27, C30, C55, C60, C62, C67, C68, C69, C70, C71, C72, C73, C75, C76, C77, C78, C79, C80, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C118, C119, C121, C122	100n / 50v
21	C2, C29, C33, C34, C35, C36, C37, C38, C46, C49, C50, C51, C52, C85, C86, C87, C88, C89, C116, C117, C120	10n / 100v
27	C31, C32, C39, C40, C41, C42, C43, C44, C45, C47, C48, C53, C54, C56, C57, C58, C59, C61, C63, C63, C64, C65, C74, C81, C82, C83, C84	1u / 50V
6	C28, C109, C110, C114, C115, c123	100n/200V
3	C111, C112, C113	1n / 50v
1	C66	4u7 / 10v
1	D1	1N4001
7	D2, D3, D4, D5, D8, D16, D17	1N4148
4	D6, D7, D14, D15	NTS245SFT1G
6	D9, D10, D11, D12, D13, D18	SS110B
1	U1	TC7662AEPASOIC
1	IC1	LF33CDT-DPAK
1	IC2	
1	IC3	LP2992 3v3
1	IC4	INA193AQDBVRQ1
5	IC5, IC6, IC7, IC8, IC9	TS27L2C
1	IC10	TL081D
1	IC11	ADR381
1	IC12	MAX3232
1	IC13	STM32F427VGT6 or STM32F427VIT6
1	JP4	PINHD-2X3/90
1	JP5	PINHD-2X8/90
1	JP6	PINHD-2X10/90
1	JP7	PINHD-2X4/90
1	JP8	PINHD-2X6/90
1		Female header 2x3
5		Female header 2x2
1		Female header 2x4
1		Female header 2x6
1		Female header 1x6
8		Female header 1x2
1		Crimp Contacts M20-1180046 (pack of 100)

7805

1	JP47	PINHD-2X3
1	ST3	PINHD-1X6
3	ST4, ST5, ST6	PINHD-1X2
1	DSP1	PINHD-2X20
1	L1	WE74451147/47uH
2	LED1, LED2	RGB LED WE 150141M173100
1	MOD1	ESP-07S (ESP8266)
1	OSC1	OSZ8MHz
1	Q1	QOSC_AURELAURIS7050
		IRLML6401
		IRLML2502
8	Q2, Q3, Q4, Q10, Q13, Q14, Q15, Q16	standard Pch Mosfet (Vgs must be <= 2.5v, so it switches with 3,3v logic. Example: IRLML6401)
6	Q5, Q6, Q7, Q8, Q9, Q11	standard Nch Mosfet (Vgs must be <= 2.5v, so it switches with 3,3v logic. Example: IRLR120NPbF)
35	R1, R2, R3, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R38, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R92, R93, R94, R101	1kOhm-Ferrit WE 742792096
2	R26, R44	0 Ohm
8	R4, R5, R6, R7, R8, R9, R39, R91	100 Ohm
1	R25	220 ohm
c28	R27, R29, R32, R33, R37, R43, R45, R46, R47, R48, R49, R50, R76, R77, R78, R79, R80, R81, R89, R110, R112, R114	1k
14	R28, R36, R40, R41, R53, R54, R55, R56, R58, R59, R95, R109, R111, R113	100k
12	R30, R31, R34, R42, R82, R88, R96, R97, R98, R99, R100, R115	10k
1	R87	10k / 0.1%
2	R83, R84	390k / 0.1%
1	R102	2k2
1	R75	22k
1	R35	1M
2	R85, R86	8K2
1	R103	680R
1	R90	50k
1	DSP1	LCD touch display

Device	Package	Mouser	Price
CPOL	E2.5-7	661-E-160L101MF11D	0.55
CAP	0805	187-CL21A106KOQNNNG	0.046
CAP	0805	80-C0805C104M5R	0.035
CAP	0805	710-885382207009	0.09
CAP	0805	187-CL21B105KBFNNNF	0.089
CAP	1206	710-885342208002	0.16
CAP	0805	710-885382207004	0.09
CAP	0805	187-CL21A475KPFNNNE	0.043
DIODE	MELF (SOD-106)	755-1SR156-400TE25	0.39
DIODE	MINIMELF (SOD-80)	512-LL4148	0.116
DIODE	MINIMELF (SOD-123FL-2)	863-NTS245SFT1G	0.31
DIODE	MELF (SOD-123F-2)	750-CDBMT1100-HF	0.46
IC	SO08	579-TC7662BCOA	2.34
IC	DPACK	511-LF33CDT-TR	0.98
IC	SMT		
IC	SOT23-5	926-2992AIM53.3/NOPB	1.41
IC	SOT23-5	595-INA193AQDBVRQ1	3.24
IC	SO08	511-TS27L2CDT	0.67
IC	SO08	511-TL081CDT	0.47
IC	SOT23	584-ADR381ARTZ-R2	2.95
IC	SO16	700-MAX232CSE	3.75
IC	TQFP100	511-STM32F427VGT6	14.88
PIN		200-TSW10308GDRA	0.72
PIN		200-TSW-11008GDRA017	3.28
PIN		200-TSW-11008GDRA017	3.28
PIN		200-TSW10408GDRA	0.89
PIN		200-TSW10608GDRA	1.89
		855-M20-1070300	0.3
		855-M20-1070200	0.21
		798-A18D254C	0.64
		855-M20-1070600	0.51
		855-M20-1060600	0.28
		855-M20-1060200	0.096
		855-M20-1180046	6.97

PIN		200-TSW10307GD	0.71
PIN			
PIN			
PIN		200-TSW-123-21-L-D	5.18
IND	WE-PD3	710-74455147	2.37
LED	PLCC4_WE_LED	710-150141M173100	0.84
WIFI	ESP8266-12	223-ESP-07S	10.08
OSC	QOSC_AQO7015	449-LFSPXO018045REEL	1.3
	SOT23	942-IRLML6401TRPBF	0.46
FET	SOT23	942-IRLML2502TRPBF	0.57
FET	DPACK	942-IRLR120NTRLPBF	1.07
RES	0805	710-742792096	0.22
RES	0805	71-CRCW0805100RFKEAC	0.063
RES	0805	652-CR0805FX-2200ELF	0.03
RES	0805	603-RC0805FR-071KL	0.036
RES	0805	652-CR0805FX-1003ELF	0.023
RES	0805	652-CR0805FX-1002ELF	0.027
RES	0805	652-CRT0805BY1002ELF	0.179
RES	0805	667-ERJ-PB6B3903V	0.36
RES	0805	652-CR0805FX-2201ELF	0.025
RES	0805	667-ERJ-6ENF2202V	0.078
RES	0805	71-CRCW08051M00FKEAC	0.063
RES	0805	603-RC0805FR-078K2L	0.036
RES	0805	667-ERJ-6ENF6803V	0.075
POTI	MINIPOTI	652-3296Y-1-503LF	2.17
		https://www.amazon.com/cart/smart-	55

Total

Digikey

\$0.55
\$0.32

\$2.07

\$1.89

\$2.40

\$0.96
\$0.27
\$0.04
\$0.39
\$0.81
\$1.24
\$2.76

\$2.34

TC7662BCOA-ND

2.33

\$0.98

\$0.00

\$1.41

LP2992IM5X-3.3/NOPB

1.41

\$3.24

296-21443-2-ND

3.24

\$3.35

\$0.47

\$2.95

\$3.75

\$14.88

497-17449-ND

14.89

\$0.72

\$3.28

\$3.28

\$0.89

\$1.89

\$0.30

\$6.97

\$0.71		
\$0.00		
\$0.00		
\$5.18		
\$2.37		
\$1.68		
\$10.08	ESP-07S-ND	9.79

\$1.30

\$0.46

\$4.56

\$6.42

\$7.70

\$0.50

\$0.03

#VALUE!

\$0.32

\$0.32

\$0.18

\$0.72

\$0.03

\$0.08

\$0.06

\$0.07

\$0.08

\$2.17

\$55.00

#VALUE!

ebay

833-SI2333-TP

942-IRLML6244TRPBF