

Bill Of Materials for 18650LI-ION-ST7735_SCH

0 Modules

Quantity	References	Value	description
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Sub-totals:

8 Capacitors

Quantity	References	Value	description
5	C1-C4,C7	4.7u	Capacitor el. SMC-B
3	C5-C6,C8	0.47u	Capacitor SMD1206

Sub-totals:

41 Resistors

Quantity	References	Value	description
16	R1,R5-R6,R10,R12,R16-R17,R21-R22,R26-R27,R31-R32,R36-R37,R41	470	Resistor SMD1206
11	R2-R3,R9,R13-R14,R19,R23-R24,R29,R34,R39	10K	Resistor SMD1206
4	R4,R18,R28,R38	0.4	Resistor SMD2512
4	R7,R15,R25,R35	1K5	Resistor SMD1206
1	R8	6K8	Resistor SMD1206
4	R11,R20,R30,R40	1	Resistor SMD2512
1	R33	4K7	Resistor SMD1206

Sub-totals:

10 Integrated Circuits

Quantity	References	Value	description
4	U1,U4,U7,U9	PC817	1-CHANNEL TRANSISTOR OUTPUT TYPE PHOTO COUPLER
4	U2,U5,U8,U10	TP4056	1A Linear Li-Ion Battery Charger SOP127
2	U3,U6	LM358N	Dual Operational Amplifiers

Sub-totals:

12 Transistors

Quantity	References	Value	description
4	Q1,Q3,Q6,Q10	IRFR9210	Power MOSFET D2PACK
4	Q2,Q5,Q9,Q12	IRL2910	N-Channel MOSFET Transistor
4	Q4,Q7-Q8,Q11	ZVN3310F	N-CHANNEL FET SOT23

Sub-totals:

25 Miscellaneous

Quantity	References	Value	description
4	B1-B4	3.6	BATTERY 18650 HOLDER
2	D1-D2	TS4148	Diode SMD
2	J1-J2	TBLOCK-M2	CONNECTOR MKDSN 5.08
1	LCD1	ST7735R	COLOR TFT DISPLAY 1.8
8	LED1,LED3-LED4,LED6-LED7,LED9,LED11,LED13	LED-RED	LED 5MM
4	LED2,LED5,LED8,LED12	LED-GREEN	LED 5MM
1	NANO1	ARDUINO NANO V2	
1	RV1	5K	Multi turn potentiometer
2	SW1-SW2		Tactile SWITCH B3F-40XX

Sub-totals:
