Bill Of Materials for mark vu meter 14ch

Design Title — `mark vu meter 14ch`
Author
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Total Parts In Design — `48`

Notes

RV4,RV5,RV6, I used RK09K113-LIN10K ALPS they dont fit perfectly but you can make it work
SW1 and SW2 are simple tectile switches
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Gen1 is a ARDUINO MEGA 2560 PRO ....pro version is important because it has smaller pcb then the normal one.
U4 is a SI5351Board ....both GEN1 and U4 can be ordered for a few bucks at alieexpress

If you want to use a microphone, you will need a cheap conden mic.
IF you want to switch between mic and line in, like in my setup, you will need a toggle switch. If you are only using one of the two, you can use a jumper on the pcb

Power supplly is critical. make sure it has 5V on the output. If leds are behaving strange....check the power is not to high/low

And offcourse you'll need ledstrips...

0 Modules

Quantity	References	Value	Stock Code	Unit Cost
Sub-totals:				£0,00

16 Capacitors

Quantity	References	Value	Stock Code	Unit Cost
2	C1-C2	1u	Digikey P14505-ND	
2	C3-C4	0.01u	Digikey C1206C183J2RACTU-ND	
10	C5-C8,C10-C15	0.1u	Digikey 478-1556-2-ND	
2	C9,C17	470U	Digikey P5155-ND	
Sub-totals:				£0,00

12 Resistors

Quantity	References	Value	Stock Code	Unit Cost

3	R1-R2,R12	100k		Digikey RT1206FRE07100KL-ND	
1	R3	680k		Digikey RT1206FRE07680KL-ND	
5	R4,R6-R8,R10	10.0k		Digikey RT1206CRD0710KL-ND	
1	R5	470		Digikey 311-470FDKR-ND	
2	R9,R11	22.0K		Digikey 311-22.0KFDKR-ND	
Sub-totals:					£0,00

4 Integrated Circuits

Quantity	References	Value	Stock Code	Unit Cost
2	U1,U3	MCGEQ7		
1	U2	LM358N		
1	U4	SI5351BOARD		
Sub-totals:				£0,00

0 Transistors

Quantity	References	Value	Stock Code	Unit Cost
Sub-totals:				£0,00

1 Diodes

Quantity	References	Value	Stock Code	Unit Cost
1	D1	DIODE		
Sub-totals:				£0,00

15 Miscellaneous

Quantity	References	Value	Stock Code	Unit Cost
1	GEN1	ARDUINO MEGA 2560 PRO		
1	J1	CONN-H2		
2	J2,J7	SIL-100-15		
1	J4	CONN-H4		
1	J5	TBLOCK-I3		
1	J6	TBLOCK-I2		
1	JP1	JUMPER2		
1	RV1	100K	Digikey 3252W-203LF-ND	
1	RV2	500K	Digikey 3252W-204LF-ND	
3	RV4-RV6	1k		
2	SW1-SW2	PUSH-BUTTON		
Sub-totals:				£0,00

Totals:					£0,00

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