
Quick Build Guide

Thank you for purchasing the USB 2.0 Hub kit. It is recommended that you follow this pictorial guide as it is designed to ensure you can successfully build your kit and have it working as soon as possible. If you have any issues, feel free to contact me via the store message platform. Now that is out of the way, let's get started!

Bill of materials

Comment	Quantity	Designator	Footprint
Connectors			
DUAL_USB_2.0_TYPE-A	2	J1, J2	Custom
TYPE-C-306DDW-ARP16	1	J3	Custom
Inductors			
600Ω @ 100MHz 2A	3	L1, L2, L3	0805
Capacitors			
100nF	7	C15, C16, C1, C5, C8, C9, C10	0603
100uF	2	C11, C12	3528X210N
10uF	4	C6, C7, C13, C14	0603
18pF	2	C3, C4	0603
1uF	1	C2	0603
IC			
GL852 USB HUB IC	1	U1	SOP28
SY6280	2	U2, U3	SOT23-5
Diode			
RED LED	3	PWR, UPWR1, UPWR2	0603
Crystal			
12MHZ	1	Y1	3225
Resistors			
10K	4	R4, R5, R9, R10	0603
2.2k	3	R2, R12, R13	0603
47K	1	R6	0603
5.1K	2	R1, R3	0603
6.8K	2	R8, R11	0603
680R	1	R7	0603
Other			
PCB	1	NA	NA

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Components

L1, L2, L3	C15, C16, C1, C5, C8, C9, C10	C11, C12	C6, C7, C13, C14	C3, C4	C2	U1	U2, U3	PWR, UPWR1, UPWR2	R7
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R4, R5, R9, R10	R2, R12, R13	R6	R1, R3	R8, R11	Y1	J3	J1, J2	Empty	Empty
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Component placement guide

