

## PCB Ordering instructions:

Go to [JLCPCB instant quote](#) and add Gerber file (Figure 1a).

Select default settings and preferred PCB color (Figure 1b).

Under PCB settings select SMT assembly and indicate quantity (2 or 5) (Figure 1c).

a

The screenshot shows the JLCPCB website's instant quote interface. The 'PCB' tab is selected. A large blue button labeled 'Add gerber file' is centered. Below it, text indicates file size limits (up to 10 MB) and provides links for 'Instructions for ordering' and 'Upload History'. On the left, 'Base Material' is set to 'FR-4' and 'Aluminum'. 'Layers' are set to '2'. 'Dimensions' are '100 \* 100 mm'. On the right, the 'Charge Details' sidebar shows a 'Special Offer' of £1.52, a 'Build Time' of 1-2 days, a 'Calculated Price' of £1.52, a 'Weight' of 0.28kg, and a 'Shipping Estimate' of £17.47 via DHL Express Worldwide (3-7 business days). A 'SAVE TO CART' button is present.

b

The screenshot shows the JLCPCB website's instant quote interface after file upload. The 'PCB' tab is selected. It displays 'Detected 2 layer board of 75x100mm/2.95x3.94 inches' and a message: 'Your upload has finished processing. Enter the project details below and we'll move on to checking all the individual layers to make sure that they're correct.' Two images of the PCB are shown: one with components and one labeled 'MAKING'. The 'Charge Details' sidebar on the right shows a 'Special Offer' of £1.52, a 'Build Time' of 3 days, a 'Calculated Price' of £1.52, a 'Weight' of 0.28kg, and a 'Shipping Estimate' of £17.47 via DHL Express Worldwide (3-7 business days). A 'SAVE TO CART' button is present.

c

The screenshot shows the JLCPCB website's instant quote interface at the 'SMT Assembly' step. The 'SMT Assembly' tab is selected. It includes a toggle for 'Free SMT Assembly for your PCB order' (currently on). Text instructions state: 'Only accept single sided placement, we recommend you choose the side which has more SMD parts.' and '\*The parts that are not in JLCPCB SMT Parts Library won't be placed on your board.' Below, two images of the PCB are shown: one with components and one labeled 'MAKING'. Radio buttons allow selection of 'Assemble top side' (selected) or 'Assemble bottom side'. At the bottom, 'SMT QTY' is set to '2'. The 'Charge Details' sidebar on the right shows a 'Special Offer' of £1.52, an 'SMT Price' of £6.09 (including Setup Fee, Stencil, Panel, Large Size, Components, Extended components fee, and SMT Assembly), a 'Build Time' of 3 days (72 hours), a 'Calculated Price' of £8.75, and a 'Weight' of 0.28kg. A 'NEXT' button is at the bottom.

Figure 1

Click next and add the BOM and PnP files (Figure 2a-b).  
Click next and review if any parts are unavailable. If yes, order from a different supplier (e.g. Mouser, Farnell, Digikey ...). (Figure 2c).  
Click next to see the position of each part on the PCB; save to cart and complete payment (Figure 3).

**a**

**b**

**c**

Uploaded BOM Data			Review Matched Parts						
Designator	Name	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select	
C6	470nF	C0805	CL21B474KBENNNE C13967 50V 470nF X7R ±10% 0805 Multilayer ...	20	JLCPCB	Basic	£ 0.2213	<input checked="" type="checkbox"/>	
SW2	TS-1187A-B-A-B	SW-6MD_4P-L5-F...	TS-1187A-B-A-B C318884 No NC 50mA 5.1mm 100mΩ 10000 160g...	5	JLCPCB	Basic	£ 0.0622	<input checked="" type="checkbox"/>	
R9	22K	R0805	0805WRF2202TSE C17560 ±1% 125mW Thick Film Resistors 150V...	20	JLCPCB	Basic	£ 0.0415	<input checked="" type="checkbox"/>	
C7,C4	10nF	C0805	CL21B103KBANNNC C1710 50V 10nF X7R ±10% 0805 Multilayer C...	20	JLCPCB	Basic	£ 0.0935	<input checked="" type="checkbox"/>	
U1	L9958NP	POWERSO-24_L10...	L9958XP C443848 PowerSO-24 Motor Driver ICs ROHS	2	JLCPCB	Extended	£ 10.7481	<input checked="" type="checkbox"/> Inventory shortage	
C10,C11,C1...	1nF	C0805	CL21B105KBENNNE C28323 50V 1nF X7R ±10% 0805 Multilayer Co...	20	JLCPCB	Basic	£ 0.1479	<input checked="" type="checkbox"/>	
R17,R19,R2...	1.8K	R0805	0805WRF1801TSE C17398 ±1% 125mW Thick Film Resistors 150V...	20	JLCPCB	Basic	£ 0.0354	<input checked="" type="checkbox"/>	
U4,U9	MAX3185KASA-T	SO-8_L4-9-W3.9...	MAX3185KASA-T C52028 SO-8 ADC/DAC - Specialized ROHS	4	JLCPCB	Extended	£ 16.5553	<input checked="" type="checkbox"/>	

Figure 2

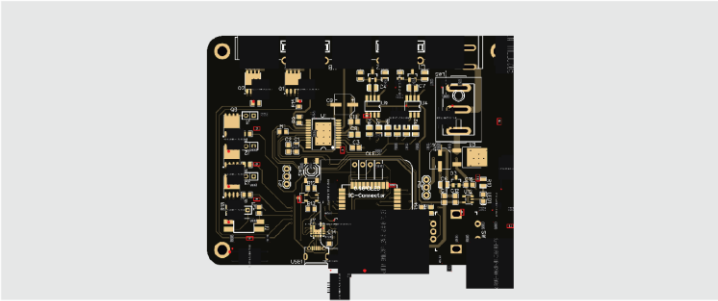
a

PCB

UPROB DUM/A.FL

SELECT PARTS

Review Parts Placement



The parts placement is for reference purposes only. Our engineer will review and fix the components orientation in 4-6 hours after you place the order. You can check the result in your order history.

Selected Parts(26 Items) [Download Selected Parts List](#)

Charge Details

PCB Price

Special Offer

£ 1.52

SMT Price

Setup fee

£ 6.15

Stencil

£ 1.15

Panel

£ 0.00

Large Size

£ 0.00

Components

£ 51.34

Extended components fee

£ 25.36

SMT Assembly

£ 1.24

Hand-soldering labor fee

£ 2.69

Manual Assembly

£ 0.61

Build Time

PCB: 3 days

£ 0.00

b

MMBT2222A-G

Q3,Q4

15

JLPCPB

£ 0.2409

TS-1187A-B-A-B

SW2

5

JLPCPB

£ 0.0622

CL21B105KBFNNNE

C10,C11,C13

20

JLPCPB

£ 0.1429

[Show All](#)

Unselected Parts(8 Items) [Download Table](#)

Designator	Comment	Footprint	Qty
SM	SMALL_SERVO	1X03	1
JP1	JUMPER-3PTH	1X03	1
J1,J2,J3,J4	CON_HEADER_1X02-PTH	M1X2	4
OLED1	0.96OLED_4P	0.96OLED_4P	1
U1	L9958XP	POWERSO-24_L10.5-W7.6-P0.80-LS10.5-BL	1
<a href="#">Show All</a>			

Build Time

PCB: 3 days

£ 0.00

SMT: 120 hours

Total Price

£90.09

Weight

365.10g

SAVE TO CART

By placing your order, pls read the [Terms and Conditions of JLPCB SMT Service](#).

Figure 3