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## Ordering from JLCPCB

[jlcpcb.com](https://jlcpcb.com) fabricates PCBs and assembles them as well, meaning they can produce a fully-populated PCB, shipped directly to you.

The Traquito Jetpack tracker Add-on Module is available to you directly through this service.

There are 3 files you will need to provide to JLCPCB during the ordering process. You don't need to know anything about these files, just submit them and JLCPCB will take care of the rest.

 [bom\\_jlcpb.csv](#)  
 [cpl\\_jlcpb.csv](#)  
 [TraquitoJetpackV1-gerbers.zip](#)

The files are:

- BOM ("bill of materials" aka list of parts)
- cpl part placement file (describes where each component should be placed/soldered on the PCB)
- gerber files in a .zip (describes the PCB itself - track location, shape of board, etc)

A walkthrough of how to order is presented below.

## Please Note!

The steps below should "just work."

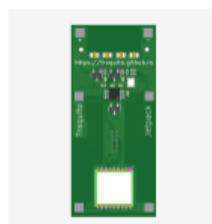
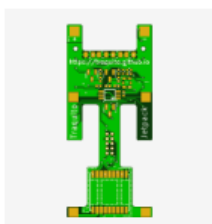
If you find yourself having to do something unexpected to "get it to work" then something is probably wrong. Please reach out for help!

**Please make sure you have an account created, and that you're logged in, before beginning.**

Also, note that JLCPCB sometimes shows the PCB outline as a rectangle, depending on a bug on their side. The order is fine, though, this is known and you can continue.

Preview of board may look like either of these two.

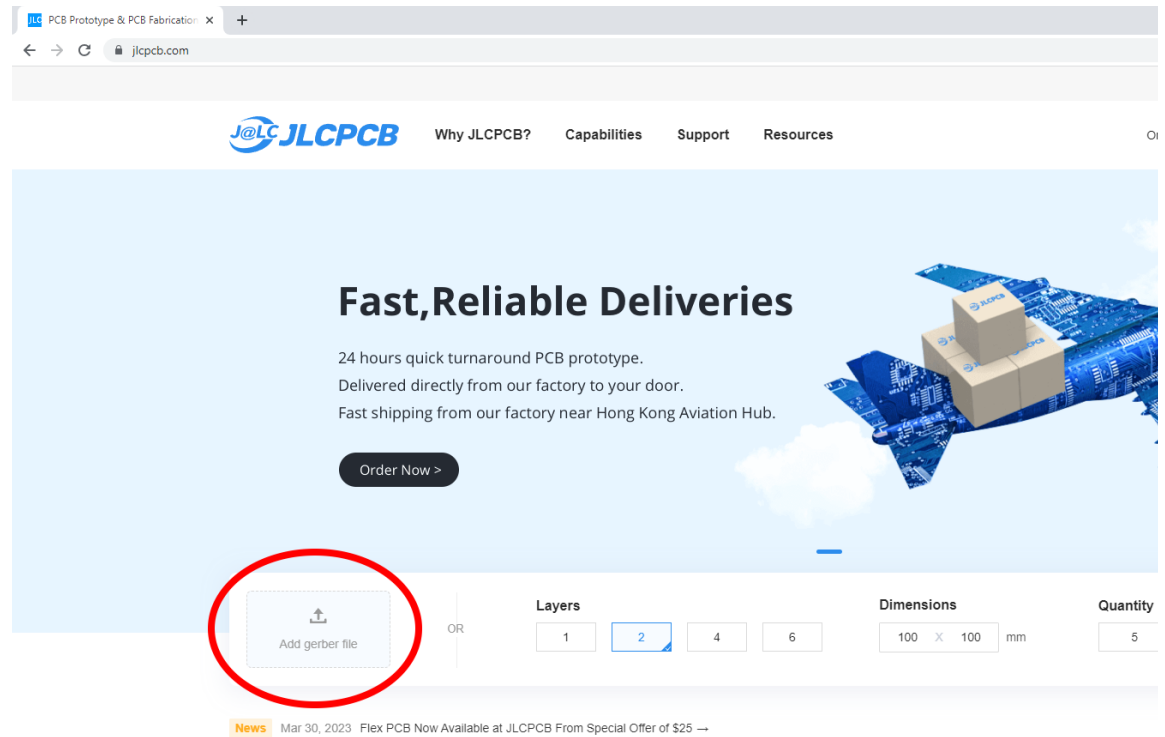
The boxy version is due to a rendering bug at JLCPCB, but the order is fine.



## Step 1

[jlcpcb.com](https://jlcpcb.com)



Drag the gerber zip file onto the circled target on the JLCPCB site.




## Step 2

This page appears and is mostly defaulted correctly.

You only need to change the parts highlighted in red.

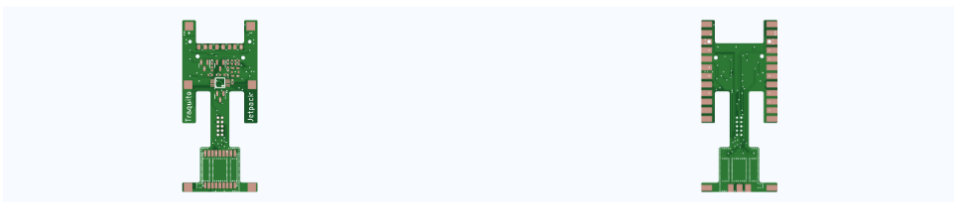
 USD

Standard PCB/PCBA

Advanced PCB/PCBA

SMT-Stencil

3D Printing



[← Back to Upload File](#) Detected 2 layer board of 50.95x22.6mm(2.01x0.89 inches) [Gerber Viewer](#)

Base Material

FR-4

Flex

Aluminum

Copper Core

Rogers

PTFE Teflon

Layers

1

2

4

High Precision PCB

6

8

10

12

14

16

18

20

Dimensions

22.6

\*

50.95

mm

PCB Qty

10

Product Type

Industrial/Consumer electronics

Aerospace

Medical

PCB Specifications

Different Design

1

2

3

4

Delivery Format

Single PCB

Panel by Customer

Panel by JLCPCB

PCB Thickness

0.4

0.6

0.8

1.0

1.2

1.6

2.0

PCB Color

Green

Purple

Red

Yellow

Blue

White

Black

Silkscreen

White

Surface Finish

HASL(with lead)

LeadFree HASL

ENIG

High-spec Options

Outer Copper Weight

1 oz

2 oz

Via Covering

Tented

Untented

Plugged

Epoxy Filled & Capped

Copper paste Filled & Capped

Board Outline Tolerance

±0.2mm(Regular)

±0.1mm(Precision)

Confirm Production file

No

Yes

Remove Order Number

No

Yes

Specify a location

Flying Probe Test

Fully Test

Gold Fingers

No

Yes

Castellated Holes

No

Yes

Advanced Options

4-Wire Kelvin Test

No

Yes

Paper between PCBs

No

Yes

Appearance Quality

IPC Class 2 Standard

Superb Quality

Silkscreen Technology

Ink-jet/Screen Printing Silkscreen

High-definition Exposure Silkscreen

Package Box

With JLCPCB logo

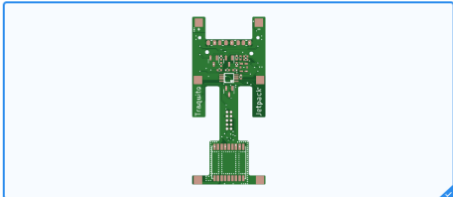

Blank box

PCB Remark

Leave a remark if you have any request

Choose Assembly

**PCB Assembly** coupon Free Assembly for your PCB order ☒

☒ Assemble top side ☐ Assemble bottom side

PCBA Type ☒ Economic ☐ Standard [What's the difference?](#)

Assembly Side ☒ Top Side ☐ Bottom Side ☐ Both Sides

PCBA Qty

Tooling holes ☐ Added by JLCPCB ☒ Added by Customer **Select this option**

Confirm Parts Placement ☐ No ☐ Yes

☒ I agree to the Terms and Conditions of JLCPCB assembly Service.

**Click here when finished**

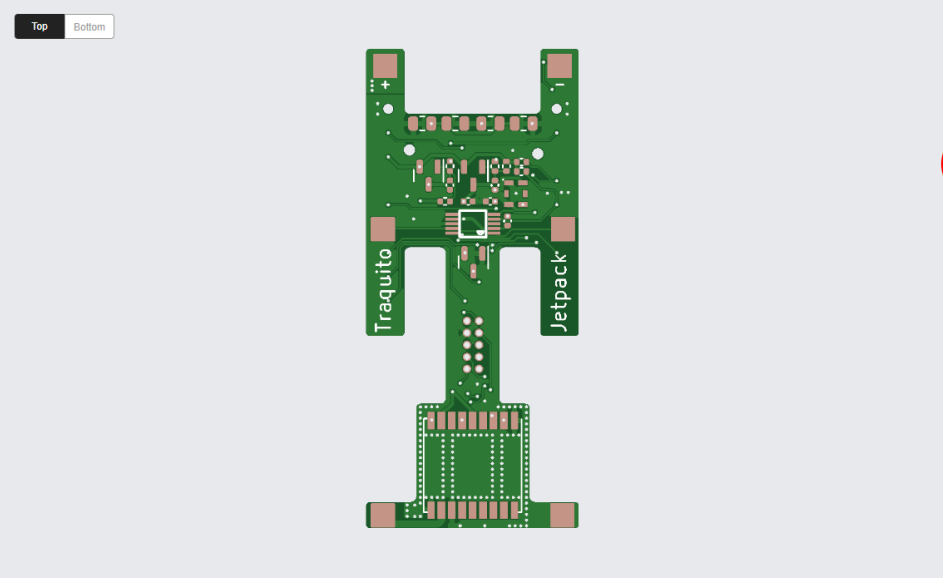
**Stencil** Order together with PCB ☐

### Step 3

Click Next.

TraquitoJetpackV1-gerbers [🔗](#)

**PCB** Bill of Materials Component Placements Quote & Order Automatically saved, last updated on 12 June,

 [← Change PCB specifications](#)

PCBA Type: Economic  
Assembly Side: Top Side  
PCBA Qty: 10

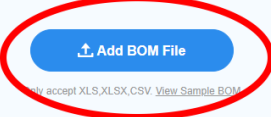
**Just click Next**

### Step 4

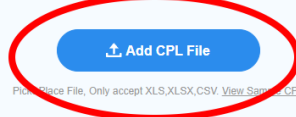
Provide the BOM and placement files.

TraquitoJetpackV1-gerbers [🔗](#)

PCB **Bill of Materials** Component Placements Quote & Order Automatically saved, last updated on 12 Ju



Click, then select bom\_jlcpb.csv



Click, then select cpl\_jlcpb.csv

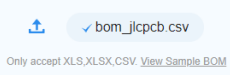
Not sure where to start? Check our [SMT FAQs page](#).

Process BOM & CPL

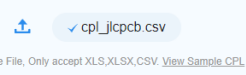
Click to continue when ready.

TraquitoJetpackV1-gerbers [🔗](#)

PCB **Bill of Materials** Component Placements Quote & Order Automatically saved, last updated on 12 Ju

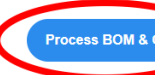


Only accept XLS,XLSX,CSV. [View Sample BOM](#)



Pick&Place File, Only accept XLS,XLSX,CSV. [View Sample CPL](#)

Not sure where to start? Check our [SMT FAQs page](#).

Click here when done 

## Step 5

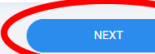
Click Next.

PCB **Bill of Materials** Component Placements Quote & Order Automatically saved, last updated on 12 June,

Top Side Total 11 parts detected | 11 Parts confirmed [Upload BOM/CPL](#)

Uploaded BOM Data			Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select
Q1,Q2	P-ChannelMO...		A03401A C15127 30V 4A 44mΩ@10V,4.3A 1.4W P Channel SOT-2...	20	JLPCB	Basic	\$0.8220	<input checked="" type="checkbox"/>
C1,C21,C25	.1uF		CL05B104K05NNNC C1525 16V 100nF X7R ±10% 0402 Multilayer Ceramic ...	30	JLPCB	Basic	\$0.0270	<input checked="" type="checkbox"/>
C3,C4,C5,C6	47uF		CL21A476MQYNNNE C16780 6.3V 47uF X5R ±20% 0805 Multilayer Ceramic C...	40	JLPCB	Basic	\$0.9040	<input checked="" type="checkbox"/>
R8,R12	500		0402WGF5100TCE C25123 62.5mW Thick Film Resistors ±100ppm/°C ±1% ...	20	JLPCB	Basic	\$0.0100	<input checked="" type="checkbox"/>
R9,R13	10k		0402WGF1002TCE C25744 62.5mW Thick Film Resistors ±100ppm/°C ±1% ...	20	JLPCB	Basic	\$0.0120	<input checked="" type="checkbox"/>
R6,R7	4.7k		0402WGF4701TCE C25900 62.5mW Thick Film Resistors ±100ppm/°C ±1% ...	20	JLPCB	Basic	\$0.0100	<input checked="" type="checkbox"/>
TCX02	26MHz		2TG2600001 C427551 1.7V~3.3V ±0.5ppm 26MHz SMD2520-6P Temp...	10	JLPCB	Extended	\$5.1270	<input checked="" type="checkbox"/>
M1	SI5351A		SI5351A-B-GTR C504891 I2C 200MHz MSOP-10 Clock Generators / Frequ...	10	JLPCB	Extended	\$18.9000	<input checked="" type="checkbox"/>
U2	APX803S-26SA		APX803S-26SA-7 C526393 140ms Active Low 1 SOT-23 Monitors & Reset Cl...	10	JLPCB	Extended	\$0.4390	<input checked="" type="checkbox"/>
C2,C20	1uF		CL05A105KA5NQNC C52923 25V 1uF X5R ±10% 0402 Multilayer Ceramic Cap...	20	JLPCB	Basic	\$0.0740	<input checked="" type="checkbox"/>
U4	GPSATGM336...		ATGM336H-SN31 C90770 SMD,9.7x10.1mm Satellite Positioning Modules ...	10	JLPCB	Extended	\$29.2150	<input checked="" type="checkbox"/>

Please carefully check the packages of selected parts before proceed

< Go back Click Next 

It is possible one or more parts are out of inventory (a "shortfall").

Click [here](#) to learn how to preorder parts (no additional cost) to overcome this, or just check back later and hope there is more parts in the JLCPCB inventory.

Top Side Total 11 parts detected | 10 Parts confirmed | 1 parts inventory shortage [Upload BOM](#)

Uploaded BOM Data			Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select
Q1,Q2	P-ChannelM...		AO3401A C15127 30V 4A 44mQ@10V,4.3A 1.4W P Channel SOT...	20	JLCPCB	Basic	\$0.7720	<input checked="" type="checkbox"/>
C1,C21,C25	.1uF		CL05B104KO5NNNC C1525 16V 100nF X7R ±10% 0402 Multilayer Ceramic...	30	JLCPCB	Basic	\$0.0270	<input checked="" type="checkbox"/>
C3,C4,C5,C6	47uF		CL21A476MQYNNNE C16780 6.3V 47uF X5R ±20% 0402 Multilayer Ceramic...	15	JLCPCB	Basic	\$0.9320	<input checked="" type="checkbox"/>
R8,R12	500		0402WGF510 C25123 62.5mW Thick Film Resistor	10	JLCPCB	Basic	\$0.0100	<input checked="" type="checkbox"/>
R9,R13	10k		0402WGF100 C25744 62.5mW Thick Film Resistor	10	JLCPCB	Basic	\$0.0100	<input checked="" type="checkbox"/>
R6,R7	4.7k		0402WGF470 C25900 62.5mW Thick Film Resistor	10	JLCPCB	Basic	\$0.0100	<input checked="" type="checkbox"/>
M1	SI5351A		SI5351A-B-G I2C 200MHz Monolithic 1:1 Frequency Divider	1	JLCPCB	Extended	\$6.3150	<input checked="" type="checkbox"/>
U2	APX803S-26...		APX803S-26SA-7 140ms Active Low 1 SOT-23 Monitors & Resets	10	JLCPCB	Extended	\$0.7830	<input checked="" type="checkbox"/>
C2,C20	1uF		CL05A105KA5NQNC C52923 25V 1uF X5R ±10% 0402 Multilayer Ceramic C...	10	JLCPCB	Basic	\$0.0760	<input checked="" type="checkbox"/>
U4	GPSATGM33...		ATGM336H-5N31 C90770 SMD 9.7x10.1mm Satellite Positioning Modules...	10	JLCPCB	Extended	\$27.2560	<input checked="" type="checkbox"/>
TCXO2	26MHz		2TG2600001 C427551 1.7V-3.3V ±0.5ppm 26MHz SMD2520-6P Tem...	10	JLCPCB	Extended	\$27.2560	<input checked="" type="checkbox"/>

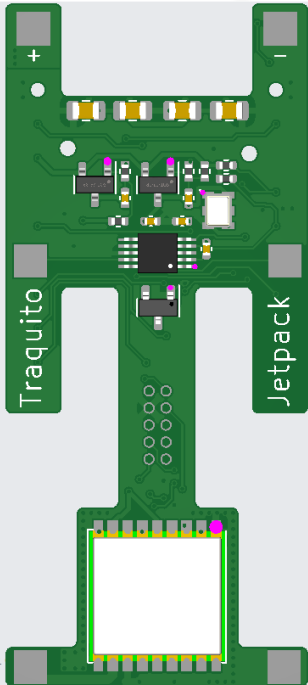
Please carefully check the packages of selected parts before proc

## Step 6

Click Next.

PCB Bill of Materials Component Placements Quote & Order Automatically saved, last updated on 12 Jun 2024

Select all top parts



\* The preview for reference only. 4-6 hours after placing the order.

Click Next

NEXT

## Step 7

You need to declare what type of board this is -- it's DIY.

Save to cart when done.

PCB Bill of Materials Component Placements Quote & Order Automatically saved, last updated on 12 Ju

**Charge Details**

**PCB Price**

Via Covering: \$0.00

Special Offer: \$5.00

**Economic PCBA Price**

Setup Fee: \$8.00

Stencil: \$1.50

Panel: \$0.00

Large Size: \$0.00

Components(11 items): \$55.54

Extended components fee: \$11.82

SMT Assembly: \$1.18

**Build Time**

PCB: 2 days \$0.00

Assembly: 1-2 days \$0.00

**Total Price:** \$83.00

Weight: 217.8

Product Description: Select

**SAVE TO CART**

By placing your order, you agree to the [Terms and Conditions of JLCPCB assembly Service.](#)

1) fill out description

2) click Save To Cart

Sensor\Controller\Precision Instrument > ✓ **DIY - HS Code 902300**

Office Appliance and Accessories > Development Board - HS Code 847330

Audio and Video Appliance > Programmable Controller - HS Code 853890

Smart Product and Accessories > Robot - HS Code 847990

Research\Education\DIY\Entertainment > Video/TV Game Player - HS Code 950450

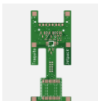
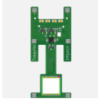
Household Appliance > Toy - HS Code 950300

## Step 8

Time to check out

**SHOPPING CART**

All PCB/PCBA/Stencil 3D Printing

Item	Qty	Price
<input checked="" type="checkbox"/>  TraquitoJetpackV1-gerbers_Y72 PCB prototype:Y72-2018155A Green, 0.8 thickness, HASL(with lead) 2 d... Product Details Edit Order	10	\$5.00
<input checked="" type="checkbox"/>  TraquitoJetpackV1-gerbers_Y72 Economic PCBA: SMT02306121275779-2... Assemble top side, 1-2 days Product Details	10	\$78.04

**SUMMARY (2 items)**

Subtotal: \$83.00

Weight: 0.22

Shipping cost: \$0.00

**Secure Checkout**

+ Add new item

VISA Mastercard American Express UnionPay PayPal JCB

SSL ENCRYPTED PAYMENT

## Step 9

The rest of the process is straightforward payment and shipping address setup.

A note about shipping methods -- they all basically cost the same (around \$20).

The exception the "Global Standard Direct Line," which I have never used before.

DHL has done a great job every time.

I recommend just picking a typical carrier.

## 2.Shipping Method

**CPT** (Carriage paid to a named destination, duty, customs and taxes are the buyer's responsibility)

☒ DHL Express Worldwide 2-4 business days

If the duty&tax amount exceeds 500USD, customers shall pay it within 5 days, otherwise parcel will be returned to the sender.

☐ UPS Express Saver 3-5 business days

☐ FedEx International Priority 4-6 business days

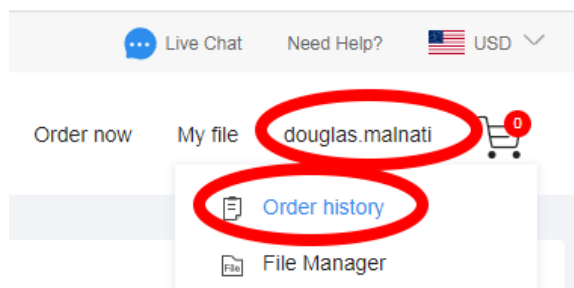
☐ Global Standard Direct Line 8-14 business days

The correct contact information must be provided to avoid having to pay for a second delivery fee. And last mile delivery is provided by USPS/PCF/ONTRAC/T FORCE/UDS

## Re-Ordering in the future

In the future, if you want to order additional Add-on Modules, you can, without going through the whole process again.

Instead, first, go to the order history page



Then, find the last order, and click Reorder to begin the process.

