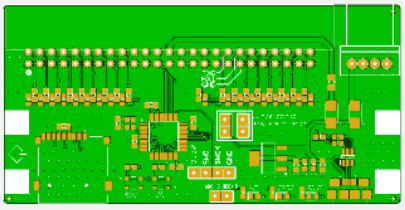
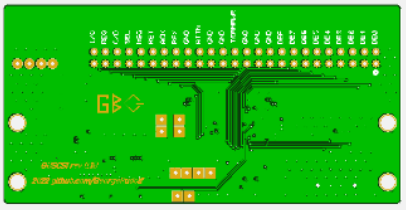
PCB | SMT-Stencil | 3D-Printing

Detected 4 layer board of 43x86mm(1.69x3.39 inches) .

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.





Back to Upload File

Gerber Viewer

Base Material	FR-4 / Aluminum
Layers	1 / 2 / 4 / 6
Dimensions	43 * 86 mm
PCB Qty	5
Product Type	Industrial/Consumer electronics / Aerospace / Medical
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
Impedance	No / Yes — Impedance calculator >
Layer stackup	Fill in your layer sequence
L1(Top layer)	GBSCSI-01B-release - CADCAM Top Copper.GBR
L2(Inner layer1)	GBSCSI-01B-release - CADCAM Inner 1.GBR
L3(Inner layer2)	GBSCSI-01B-release - CADCAM Inner 2.GBR
L4(Bottom layer)	GBSCSI-01B-release - CADCAM Bottom Copper.GBR
PCB Color	Green / Purple / Red / Yellow / Blue / White / Black
Silkscreen	White
Silkscreen Technology	Ink-jet/Screen Printing Silkscreen / High-definition Exposure Silkscreen
Surface Finish	HASL(with lead) / LeadFree HASL-RoHS / ENIG-RoHS
Outer Copper Weight	1 oz / 2 oz
Inner Copper Weight	0.5 oz / 1 oz / 2 oz
Gold Fingers	No / Yes

Welcome to the turnkey GBSCSI ordering tutorial for JLCPCB!

I have aimed at making this as simple as possible, and have already validated the files by ordering myself, thus saving you trouble.

First, go to jlcpcb.com, and create an account if you don’t yet have one.

Upload the Gerber file. You’ll be presented with this screen. The default options here all work.

No need to mess with any of these options. JLC will assemble 5 boards for free, no point in ordering more (why would you want to assemble this by hand?)

Fill in the layer info like shown here. Top, Inner 1, Inner 2, Bottom. Just to be sure.

Green silkscreen works best. It’s also the G in GBSCSI.

Leave these alone as well. ENIG is gold plating, but we don’t need that here.

Material Type: FR4-Standard Tg 130-140C | FR-4 TG155

Confirm Production file: No | Yes

Flying Probe Test: Fully Test

Castellated Holes: No | Yes

Remove Order Number: No | Yes | Specify a location

Advanced Options

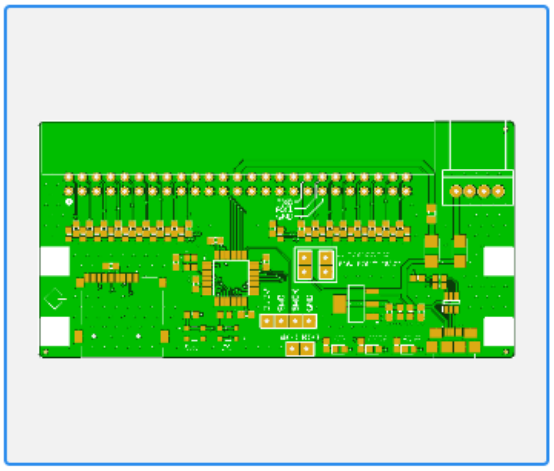
PCB Remark

You guessed it – no need to change these either.

PCB Assembly

COUPON Free Assembly for your PCB order

Toggle the assembly button



● Assemble top side ○ Assemble bottom side

PCBA Type: Economic | Standard | What's the difference?

Assembly Side: Top Side | Bottom Side | Both Sides

PCBA Qty: 5 | 2

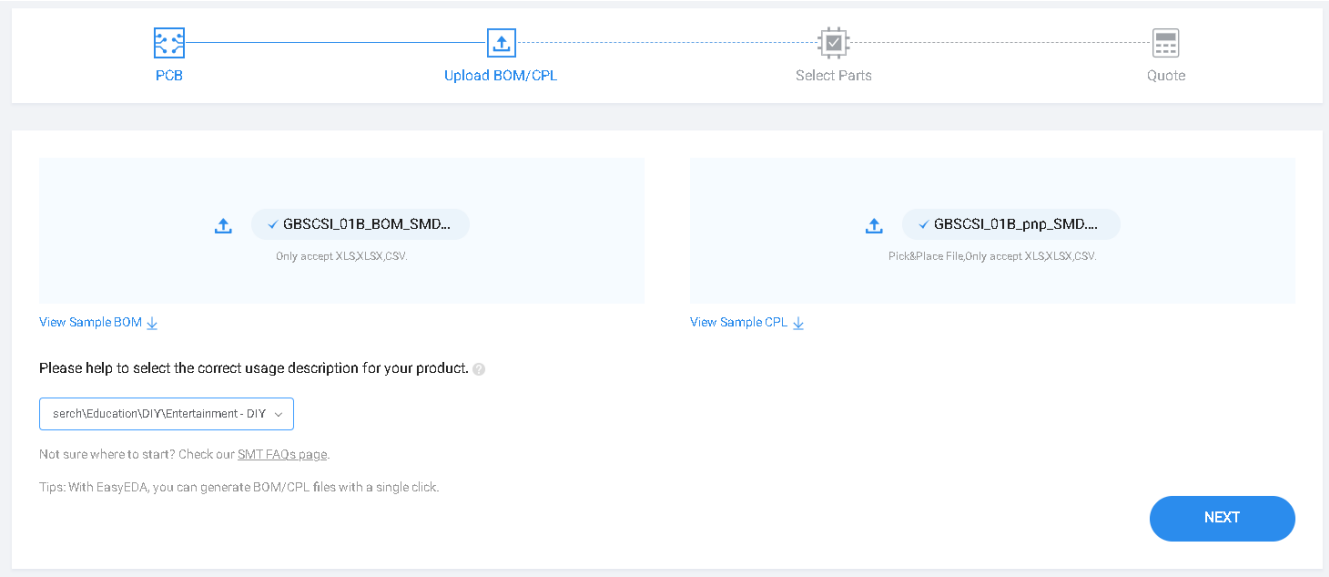
Tooling holes: Added by JLCPCB | Added by Customer

Confirm Parts Placement: No | Yes

Again, leave all as default, agree to terms, and confirm.

☑ I agree to the Terms and Conditions of JLCPCB SMT Service.

Confirm



Plug in the BOM (Bill of Materials) and cpl (component placement) files for the variant you desire. I recommend just using their SMD service and doing whatever thru-hole parts you need at home. If so, use the _smd files in the SMD folder. For complete boards, use the ALL folder.

Alternatively, if you want JLC to only do some connectors, select the ALL files, and unselect the parts you don’t want in the next screen

Select the DIY option, and hit next…

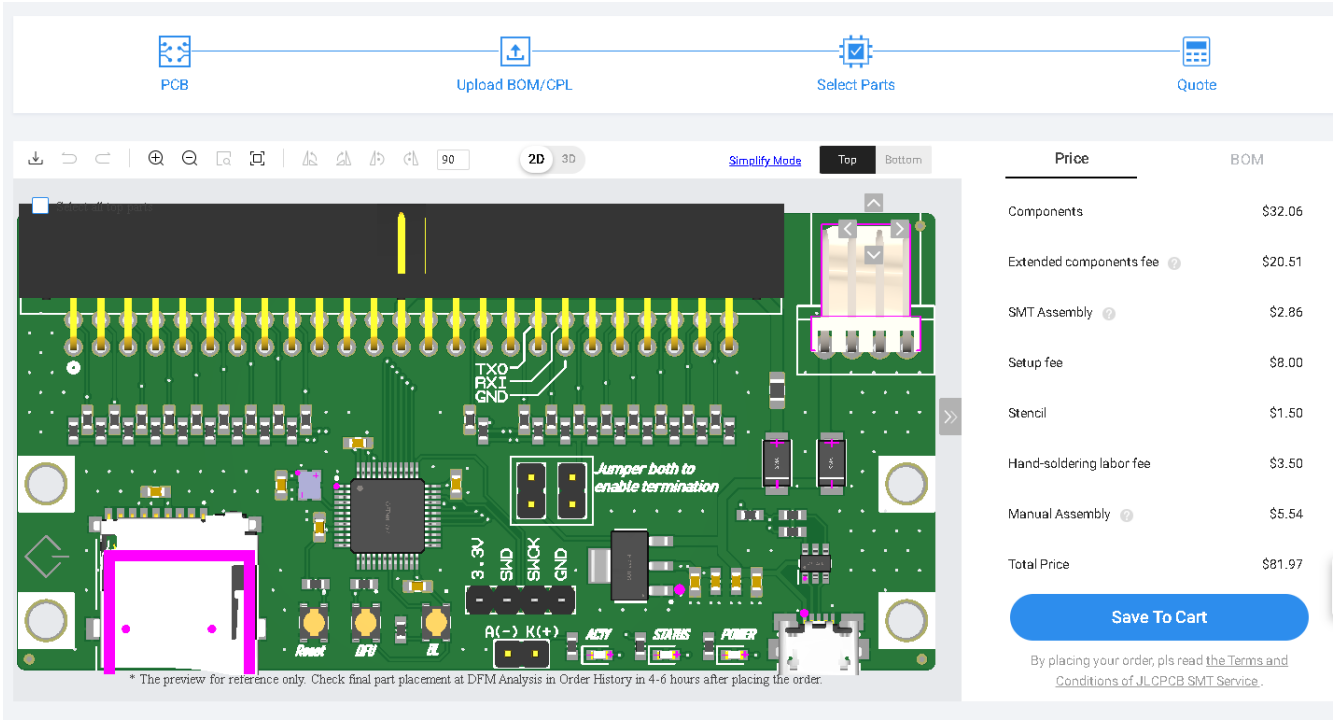
Total 24 parts detected 24 Parts confirmed 0 parts not selected

Uploaded BOM Data			Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select
D2	KT-0603R (Red L...	LED0603	KT-0603R C2286 Red 615~630nm 1.9~2.2V 0603 Li...	5	JLCPCB	Basic	$0.0270	☑
U2	AMS1117-3.3	SOT-223	AMS1117-3.3 C6186 72dB@(120Hz) 1A 1.3V@(800mA) F...	5	JLCPCB	Basic	$0.7395	☑
D5	USBLC6-2SC6	SOT-23-6	USBLC6-2SC6 C7519 17V 5A 5.25V 6V Unidirectional...	10	JLCPCB	Extended	$1.9620	☑
C1,C2,C3,C...	100n	C0603	CC0603KRX7R9BB104 C14663 50V 100nF X7R ±10% 0603 Multi...	40	JLCPCB	Basic	$0.0840	☑
D4,D5	SS210	SMA	SS210 C14996 100V 850mV@2A 2A SMA(DO-214AC)...	10	JLCPCB	Basic	$0.2860	☑
C8,C9	1.0u	C0603	CL10A105KB8NNNC C15849 50V 1uF X5R ±10% 0603 Multila...	10	JLCPCB	Basic	$0.0290	☑
R43	1.5K	R0603	0603WAF1501T5E C22843 1/10W Thick Film Resistors 75V...	5	JLCPCB	Basic	$0.0055	☑
R44,R45	20R	R0603	0603WAF200JT5E C22950 1/10W Thick Film Resistors 75V...	10	JLCPCB	Basic	$0.0110	☑
R2,R4,R6,R...	220R	R0603	0603WAF2200T5E C22962 1/10W Thick Film Resistors 75V...	90	JLCPCB	Basic	$0.0900	☑
R1,R3,R5,R...	330R	R0603	0603WAF3300T5E C23138 1/10W Thick Film Resistors 75V...	90	JLCPCB	Basic	$0.0900	☑
R28,R35,R4...	510R	R0603	0603WAF5100T5E C23193 1/10W Thick Film Resistors 75V...	15	JLCPCB	Basic	$0.0150	☑
J5	C31753	2.54mm	C31753 C31753 1x4P 1 2.54mm 4 Plugin,P=2.54m...	5	JLCPCB	Extended	$0.1165	☑
R19,R20,R2...	22K	R0603	0603WAF2202T5E C31850 1/10W Thick Film Resistors 75V...	15	JLCPCB	Basic	$0.0150	☑
D1	19-213/Y2C-CQ2R...	LED0603	19-213/Y2C-CQ2R2L/3T(CY) C72038 20mA 180mcd 2.3V 591nm Colorle...	5	JLCPCB	Basic	$0.1075	☑
D3	19-217/GHC-YR1S...	LED0603	19-217/GHC-YR1S2/3T C72043 20mA 285mcd 3.3V 518nm Colorle...	5	JLCPCB	Basic	$0.1410	☑
F1	0805L100WR	F0805	0805L100WR C80270 6V 1A 40A -40°C~+85°C 1.95A 60mΩ...	15	JLCPCB	Extended	$3.1605	☑
J2	TF-01A	SMD	TF-01A C91145 Deck MicroSD card (TF card) Se...	5	JLCPCB	Extended	$0.8865	☑
XD1	SG-8018CG_8 (8M...	SMD	SG-8018CG 8.000000MHz TJHSA C390520 ±50ppm 1.8V~3.3V 8MHz -40°C~+10...	10	JLCPCB	Extended	$7.6740	☑
JP1,JP2,J4	PZ254V-11-02P	HDR-TH_2P-P2.54...	PZ254V-11-02P C492401 Straight Square Pins 2.5mm 6mm...	17	JLCPCB	Extended	$0.1938	☑
J3	PZ254V-11-04PA	HDR-TH_4P-P2.54...	PZ254V-11-04P C492403 Straight Square Pins 2.5mm 6mm...	6	JLCPCB	Extended	$0.1332	☑
U1	APM32F103CBT6	LQFP48	APM32F103CBT6 C526178 128KB -40°C~+85°C 2V~3.6V 1@x6ch...	5	JLCPCB	Extended	$11.9620	☑
J1	321050RGOABK00A...	2.54mm 50P	321050RGOABK00A04 C601962 2.54mm Shrouded Gold Brass 25 ...	5	JLCPCB	Extended	$1.1860	☑
SW1,SW2,SW...	GT-TC0250-H0065...	SMD	GT-TC0250-H0065-L1 C778132 No ND J pin 50mA 3mm 100MΩ 100...	15	JLCPCB	Extended	$0.7120	☑
J6	10118192-0002LF	SMD	10118192-0002LF C2972784 1 Surface Mount 5 Female Micro...	5	JLCPCB	Extended	$1.5390	☑

Please carefully check the packages of selected parts before proceeding.

NEXT

That will land you at this screen. Confirm with next, unless you're unselecting some connectors or other bits you may not want fitted. That, of course, requires you to look at the schematics and knowing what you're doing.



This page should present you a very nice preview of the assembled PCB – note that the fully populated variant is selected here. Take a good peek at it, see if looks right – make sure all parts you want are there, and if you unselected something by mistake, there's a "go back" button at the bottom of the page which you can use to go back and rectify things. Note the cost breakdown on the right hand panel – notice how the thru-hole parts add cost. Still, less shipping, we're still at under $16.50 per board! New users also get coupons, so you can probably go cheaper still. Using coupons and doing thru-hole yourself, with the cheapest shipping option, you should be able to reach $12ish per board. Maybe lower.

With that, you're ready to check out.

I am not a new JLC user, so for me, the first run cost $13.81 per, including shipping. The boards arrived at my doorstep exactly two weeks after ordering, and the local postal service isn't exactly quick. YMMV.

If you've never had a look at how ordering your own PCBs works, I hope this serves as an encouraging first step into new DIY territory. Go find some friends to split the cost of the run, and have fun with these.

Best wishes,

George Rudolf Mezzomo