

PCBWay PCB Capabilities

PCBWay has prototype PCB,PCB Production fabrication and pcb assembly capabilities.

Capabilities

PCB Capabilities
Quickturn PCB Fabrication
PCB Prototyping
Low-volume Production
FAQ of PCB

Contact Us!

*Our customer service
ready for your PCB*

+86-571-85317532

"I am impressed with the quality of the boards, the delivery time and response to all my questions. Best price excellent service and speedy delivery. When I need another board I will certainly use this supplier."

-Bill Robinson Company

"Спасибо за платы! платы очень хорошего качества. надежный продавец. оперативно отвечал на вопросы. заказ выполнили и отправили очень быстро.Заказываю платы не в первый раз - как всегда только лучшие впечатления. 5+++ 4 числа отправил файлы 26-го забрал на почте в Москве."

-FVL. SKU Company

We Offer a Full Range of Printed Circuit Board Capabilities to Fit All of Your PCB Needs

PCBWay.com is a professional quick turn PCB prototyping and low-volume production manufacturer located in Shenzhen China. Currently we only accept 4 PCB files format(**gerber file**, **.pcb**, **.pcbdoc** or **.cam file** format) for PCB fabrication.

In order for us to keep our products and services competitive, we constantly are updating our equipments to better serve our customers. Please send email to service@PCBWay.com if your boards are beyond the capabilities listed below.

Click below to order your PCB prototype or low-volume orders online, and you will be asked to upload your PCB files in (**gerber file**, **.pcb**, **.pcbdoc** or **.cam file** format) before check out.

Instant Quote & Order Online

Upload your PCB Files

Items	Manufacturing Capabilities	Remarks
Number of Layers	1-10 layers	For orders above 10 layers, please contact our sales rep.
Material	FR-4 (King Board)	For Flex, Rigid-flex, Metal-based (Aluminum etc.), HDI, Halogen-free, High Tg etc., please contact sales rep.
Maximum PCB Size(Dimension)	500x1100 mm	Any sizes beyond this dimension, please contact us.
Board Size Tolerance(Outline)	±0.2mm/±0.5mm	±0.2mm for CNC routing, and ±0.5mm for V-scoring.
Board Thickness	0.4-2.4mm	0.4, 0.6, 0.8, 1.0, 1.2, 1.6, 2.0, 2.4mm. Please contact us if your board exceeds these.
Board Thickness Tolerance(t≥1.0mm)	±10%	Normally "+ Tolerance" will occur due to PCB processing steps such as electroless copper, solder mask and other types of finish on the surface.
Board Thickness Tolerance(t<1.0mm)	±0.1mm	
Min Trace	0.1mm/4mil	Min manufacturable trace is 4mil(0.1mm), strongly suggest to design trace above 6mil(0.15mm) to save cost.
Min Spacing		Min manufacturable spacing is 4mil(0.1mm), strongly suggest to design spacing above 6mil(0.15mm) to save cost.
Outer Layer Copper Thickness	1oz/2oz/3oz(35µm/70µm/105µm)	Also known as copper weight. 35µm=1oz, 70µm=2oz, 105µm=3oz. Please contact us if you need copper weight greater than 3oz.
Inner Layer Copper Thickness	1oz/1.5oz(35µm/50µm)	Inner copper weight as per customer's request for 4 and 6 layers. Please contact us if you need copper weight greater than 1.5oz.
Drill Sizes (CNC)	0.2-6.3mm	Min drill size is 0.2mm, max drill is 6.3mm. Any holes greater than 6.3mm or smaller than 0.3mm will be subject to extra charges.
Min Width of Annular Ring	0.15mm(6mil)	For pads with vias in the middle, Min width for Annular Ring is 0.15mm(6mil).
Finished Hole Diameter (CNC)	0.2mm-6.2mm	The finished hole diameter will be smaller than size of drill bits because of copper plating in the hole barrels
Finished Hole Size Tolerance(CNC)	±0.08mm	For example, if the drill size is 0.6mm, the finished hole diameter ranges from 0.52mm to 0.68mm will be considered acceptable.

Items	Manufacturing Capabilities	Remarks
Solder Mask	LPI	Liquid Photo-Imageable is the mostly adopted. Thermosetting Ink is used in the inexpensive paper-based boards.
Minimum Character Width(Legend)	0.15mm	Characters of less than 0.15mm wide will be too narrow to be identifiable.
Minimum Character Height (Legend)	0.8mm	Characters of less than 0.8mm high will be too small to be recognizable.
Character Width to Height Ratio (Legend)	1:5	In PCB silkscreen legends processing, 1:5 is the most suitable ratio
Minimum Diameter of Plated Half Holes	0.6mm	Design Half-Holes greater than 0.6mm to ensure better connection between boards.
Surface Finishing	HASL with lead HASL lead free Immersion gold	The most popular three types of PCB surface finish. Please contact us for other finishes.
Solder Mask	Green ,Red, Yellow, Blue, White ,Black	No extra charge (Green, Red, Yellow, Blue)
Silkscreen	White, Black, None	No extra charge.
Panelization	V-scoring, Tab-routing, Tab-routing with Perforation (Stamp Holes)	Leave min clearance of 1.6mm between boards for break-routing. For V-score panelization, set the space between boards to be zero.

Our Customers



Military and aerospace: We have large customer base in these industries. Customers choose us to make their PCBs in the prototype and production stage.



Medicine: Medicine and biomedical clients occupy a large part of our customers. We have strict quality standard and short lead time and our price is competitive, our customer base in this area is still on the rise.



Commercial, industrial and automotive: Most of our customers are in these industries. Fast response, short delivery time, professional engineering support continuously affordable price help retain and expand customer scale in these industries.



University, school and amateur: Students are our future scientists, we support them! Students and amateurs are price sensitive customers, our price guarantees they will rely on us for their PCB needs in terms of price and quality! At the same time, our educational sponsorship program provides free PCBs to university students, please send us the details of your project or competition at service@pcbway.com.

Upload PCB files(gerber file, .pcb, .pcbdoc or .cam file format)

Thanks for reviewing our PCB capabilities. Please upload your PCB files in the format of gerber file, .pcb, .pcbdoc or .cam file when you go through our online purchase procedures. You can also send your Gerber via email (service@pcbway.com), but we strongly suggest you order online on the webpages.

Capabilities

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Prototype PCBs

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