# PCB Manufacturing Services at Economical Costs by James Blee

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PCB stands for printed circuit board and there are quite a few companies which offer high quality pcb manufacturing services. There are many different parameters which are involved in this process and the cost too varies according to the type of PCB prototype that you want. Top quality 2 and 4 layer circuit board manufacturing companies try to give you the best possible performance, charging anywhere up to $50 per board. There are additional charges when you want bottom silkscreen. The turnaround type for the manufacture is also quite low and usually the PCB is made available to you within a week or two.

You can have as many as 6 layers on a PCB if you wanted. The 7 mil trace or 14 mil hole processes are used with solder mask in green, red, black, white and blue. You have options in terms of finishing of the PCB as well. The thickness of the material used for the PCB also varies quite a bit. The unit cost depends on the number of layers as well as the size of the board. Smaller board with dimensions of 2 inch X 2 inch obviously cost less compared to bigger ones which have dimensions of 8 inches X 5 inches.

The different types of finishing in the pcb prototype could also contribute to the complexity of the process and thereby the cost. You can go with HASL which is hot air surface levelling or ENIG which is electro less nickel immersion gold. You can also go for OSP finishing which is organic solder ability preservative. Thus there are a lot of options for you to choose from depending upon which your prototype will be made ready for you and you will be charged. Different manufacturing companies also give you a choice as to how many different layers you want on the board.

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