



SATURN SOLUTIONS

ELECTRONIC DESIGN AND MANUFACTURE

Electronic Design FAQ

What are your rates for software and hardware design?

Saturn Solutions charges £400 per full days printed circuit board design or software design service. These initial costs may be reduced by amortising them into product costs when the item goes into production.

What is a PTH circuit board?

PTH stands for 'Plated Through Hole' and is a standard format for producing a printed circuit board. Holes in the material are copper plated providing a circuit between the two sides of the board. This allows for more complex circuitry than a single-sided board because more surface area is available for laying out of copper tracks. A printed circuit board may also be manufactured with more than two layers of copper tracks by sandwiching more tracks between layers of laminations. This type of board is called a multi-layer PCB. The more layers that a printed circuit board has, the more complex the circuit can be.

What is a single-sided board?

A single-sided circuit board has tracks and pads on only one side of the board. Component leads are inserted through holes and soldered into position. This is ideal for simple, low-cost circuits.

What is the fastest that you can deliver assembled PCBs?

There are many factors that affect the assembly process, including complexity of the circuit and the quantity required.

If you, the customer, were to supply the PCBs and components, the assembly could be completed in a matter of a few days.

If you require Saturn Solutions to source the circuit board then, following receipt of your data, the PCB can be manufactured in as little as 3 days and the boards can then be assembled.

For supply of PCBs and components, delivery time will be governed by lead times attached to required components.

Why would we come to you for printed circuit board design and assembly rather than use offshore assembly companies?

Over the last decade, the trend has been for UK companies to go 'offshore' for PCB assembly. However, recently manufacturers in the UK have been bringing their assembly back into the country due to logistical problems coupled with the increase in delivery costs as fuel prices have risen. For mass production there is still a strong argument for offshore assembly, but for smaller batch assembly contracts, UK assemblers now have the edge. At Saturn Solutions, we pride ourselves on offering good value for money coupled with unrivalled customer service.