

Standard double-sided double-glass component board





Overview

What are the components of a double sided PCB board?

To break it down further, here are the core components of a double sided PCB board: **Substrate:** The foundational layer, typically made from fiberglass-reinforced epoxy (FR4), providing mechanical strength and insulation. **Copper Layers:** Thin sheets of copper foil on both sides, etched to form traces, pads, and circuits.

What is a double sided circuit board?

Cost effectiveness: Lower cost compared to multilayer boards for many applications. Double sided boards are the minimum configuration for complex digital circuits, mixed-signal designs involving both analog and digital signals, and high component density applications like cell phones and handheld devices.

What is a double sided PCB?

Vias or plated through holes electrically connect the top and bottom layers to complete circuits between components on both sides. The main advantages of double sided PCBs are: **Higher component density:** More space for component placement and routing traces on two layers instead of one.

Do you need a double sided PCB?

While single-sided PCBs can suffice for simple designs, complex products often require double sided PCBs to achieve higher component density and interconnect capability. This article provides a comprehensive guide to double sided PCB assembly. **What is a Double Sided PCB?**



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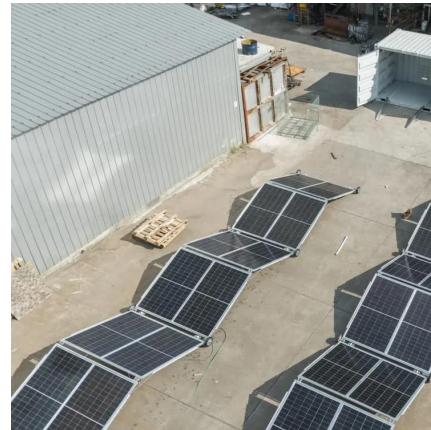
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