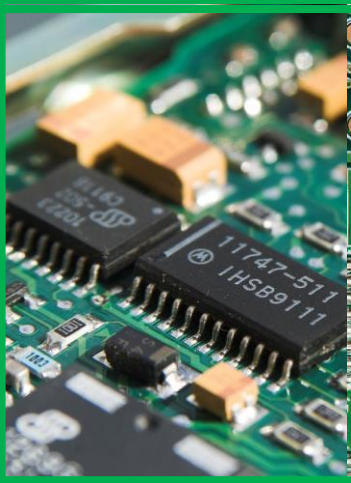

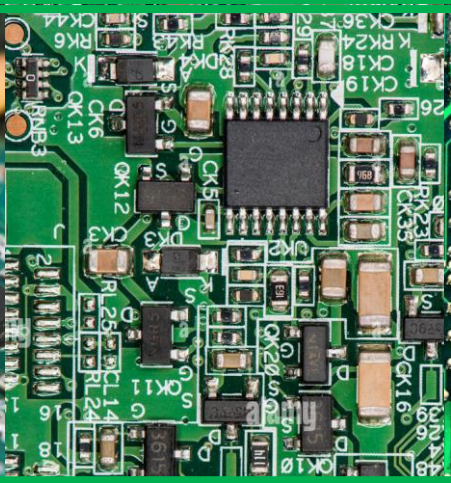

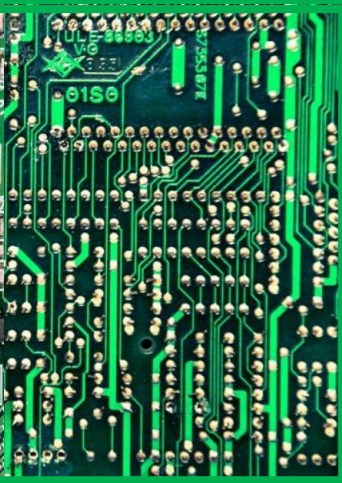

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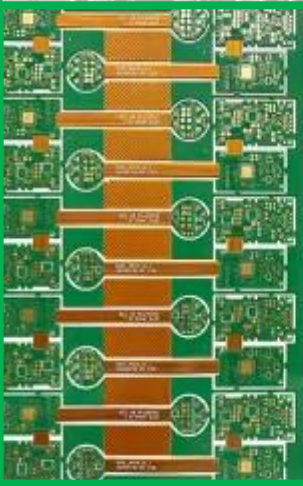
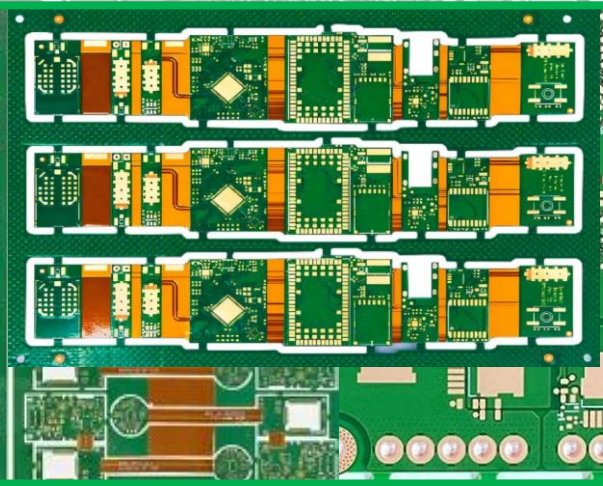
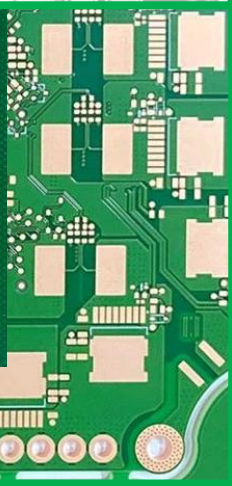
prototype | production | commercial manufacturing
small to medium volume assembly







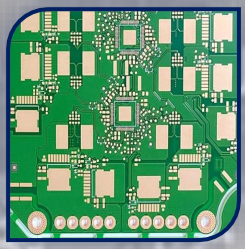
pcbXpress

About us

Keerala based team delivering
Single layer, double layer and multi layer PCBs
Turnkey assembly on demand
3D printing and vetted components sourcing
From 24 to 72h prototype to dependable production

PCB Xpress was founded, with a vision to provide IoT services of global scale and quality to the needs of innovations across the industry. The global need for quality PCBs with faster delivery at an affordable price resulted in an experienced team focused on speed, reliability, and value.

We are now thriving toward our goal of becoming an integrated manufacturing, design, and engineering partner to all innovators—with the support of our customers




pcbXpress

Our products and services

Full turnkey solutions

Single Layer PCBs

Double Lages PCBs

Multi Layer PCBs

PCB Fabrication

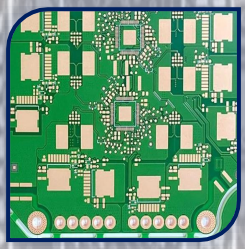
PCB Assembly

Components Sourcing

Wire harnessing

3D Printing

Molding



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Technologies & Capabilities

SMT-Surface Mount Technology

TNT-Through Hole Technology

CNC-Computer Numerical Controlled cutting

Technical Specifications	
Layers	1–12 (higher on request)
Min trace/space	0.12 mm / 0.12 mm
Min drill (mechanical)	0.50 mm
Aspect ratio (PTH)	10:1 typical
Board thickness	0.8–4.0 mm
Copper weight	0.5–2 oz (inner/outer)
Materials	FR-4, Isola, Rogers (HF)
Solder mask	Green, Black, White, Red, Blue
Surface finish	HASL ,LFHASL, ENIG,
Impedance control	Yes (±10%)
Silkscreen	White/Black
Testing	100% E-test for volume

Via Capabilities	
Through via	**Drill ≥ 0.30 mm**
Via-in-pad	**Filled & capped (on request)**
Tenting	**Supported**

pcbXpress

Process Capability and Specifications

Input Media - CAM Data , NC Drill File with Mechanical drawing
Minimum Spacing – 4 Mil
Minimum Hole Size finish – 0.35 mm
Minimum Annular ring – 16 Mil (8 Mil on each side)
Mask Clearance – 3 to 5 Mil
SMT Pitch size – 5 Mil minimum
Copper clad laminate –

Sheet Thickness	Copper Thickness (Micron)	Copper Thickness (Micron)	Copper Thickness (Micron)
0.8mm	18/18	35/35	70/70
1mm	18/18	35/35	70/70
1.2mm	18/18	35/35	70/70
1.6mm	18/18	35/35	70/70
2.4mm	18/18	35/35	70/70
3.2mm	18/18	35/35	70/70
4mm	18/18	35/35	70/70

Legend Color – White, Black, Yellow
Minimum HAL Thickness – 8 to 12 Micron
Minimum Solder Mask Thickness – 25 Micron (In wet condition)

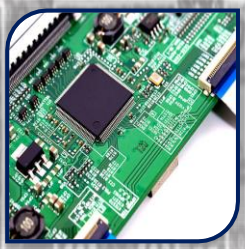
pcbXpress

PCB Fabrication

PCB fabrication is the process of transforming a circuit design into a physical printed circuit board (PCB), which serves as the backbone of most electronic devices. It involves multiple stages, from preparing the board layout to assembling components. pcbXpress team will provide you a work of art approach to create your devices work effectively

PCB Assembly

PCB assembly is the process of mounting electronic components onto a fabricated printed circuit board (PCB) to create a functioning electronic device. Whether you're assembling boards at home or outsourcing to a manufacturer,

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Component Sourcing

Component sourcing for PCBs is a critical step in the electronics manufacturing process—it ensures that every resistor, capacitor, IC, and connector on your board is available, authentic, and cost-effective. Whether you're a hobbyist or managing a production run.

We pcbXpress make sure that you are getting high quality components on reasonable price and timely delivery

Wire harnessing

Wire harnessing is the process of organizing, bundling, and securing electrical wires and cables into a single unit—called a wire harness or cable assembly. It’s essential in industries like automotive, aerospace, and electronics, where complex wiring needs to be safe, efficient, and easy to install.

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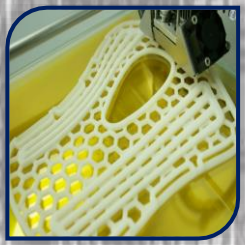
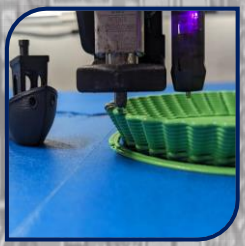
3D Printing

3D printing—also known as additive manufacturing—is a game-changing technology that builds physical objects layer by layer from digital models. Whether you're prototyping, customizing tools, or just having fun with creative designs, it's a powerful tool that's become surprisingly accessible.

At its core, 3D printing transforms a digital 3D model (usually made in CAD software) into a real-world object by depositing material—typically plastic, resin, or metal—layer by layer. It's the opposite of subtractive manufacturing, which carves material away.



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Molding

Molding is a versatile manufacturing and design technique used to shape materials—like plastic, metal, or even wood—by forming them inside a mold. But depending on context, “molding” can refer to industrial processes like injection molding or decorative architectural trim used in homes. Based on the videos you've just explored, we’re diving into the home design and trim molding side of things.

Trim molding refers to decorative strips of material (usually wood, MDF, or polyurethane) used to enhance walls, ceilings, doors, and windows. It adds depth, elegance, and character to interiors—whether you're going for classic, modern, or eclectic styles.




pcbXpress

Our Certifications

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