

A close-up photograph of a PCB assembly line. Several black robotic nozzles are positioned over a circuit board, which is illuminated by a bright red light. The background is dark, and the overall scene conveys a sense of precision and automation in manufacturing.

# Seeed Fusion Turnkey PCBA Service

Full featured PCB Assembly

# 10 Years of Seeed

Based in Shenzhen, China, Seeed strives to combine over 10 years of accelerated paper to product development expertise with the Silicon Valley of Hardware's abundance of resources and bring it to the world. The Seeed Fusion service seamlessly marries convenience with full-feature capability in one simple platform.

Whether you are an educator looking for affordable manufacturing solutions or an established company seeking to reduce costs, Seeed has a competitive offering.

As trusted by



# Full Feature Turnkey Solution

The Seeed Fusion PCBA service takes care of procurement, manufacturing and assembly via a simple online platform.

**Parts Sourcing**

**PCB Manufacture**

## PCB Assembly

Over 10 SMT lines

Prototype – Small batch – Mass production

Assembly from 8 to 72 hours

Expert engineering assistance

Flexible assembly capabilities

**Functional Testing**

**Engineering Support**





# Assembly Capabilities



## Assembly Types

Surface Mount (SMT)  
Through-hole (THT)  
Mixed  
Single/Double Sided

## PCB Types

Rigid (FR4 and Aluminum)  
Flexible PCBs  
Rigid-Flex PCBs

## Component Types

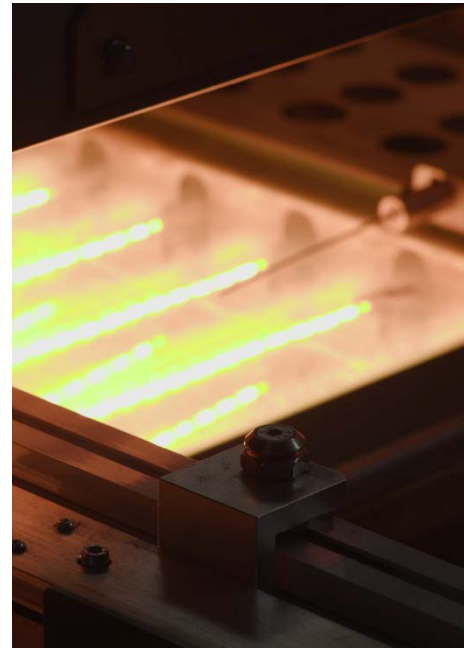
0201 chip packages  
0.4 mm pitch BGA  
0.4 mm fine pitch parts

## Soldering Types

Hand-soldering  
Reflow soldering  
Selective wave soldering  
Wave soldering

## Inspection

Visual Inspection  
X-ray, AOI and ICT  
inspection available



Talk to your representative for more information

# ► Assembly Equipment

## Over 10 SMT Assembly Lines

Dedicated facilities for prototype, small batch and mass production

## Quality Inspection Equipment

Offline and Online Automatic Optical Inspection (AOI)  
BGA X-ray Inspection Machine  
In-Circuit Testing (ICT) Machine  
Solder Paste Inspection (SPI) Machine  
First Article Inspection Machine

## Specialized Testing Equipment

Wireless Communication Analyzer  
Bluetooth Testing Equipment  
Automatic Test Equipment

## Soldering Equipment

10-Temperature Zone Nitrogen Reflow Oven  
Selective Wave Soldering Machine  
Wave Soldering Machine  
Automatic Paste Applicator  
Depaneling Machine





# ► Sourcing Capabilities

Advanced supply chain management enables superior component sourcing from east to west, wherever your parts are from

- **Reputable Suppliers:** International favorites including DigiKey, Mouser, ARROW, element14 and more.
- **Local Parts:** Open Parts Library (OPL) selection of over 20,000 parts. OPL parts are cheaper and choosing all parts from the OPL can accelerate PCBA lead time.
- **Partial Turnkey:** Pre-programmed or licensed parts? Contact our customer service for more information.



# ► PCB Manufacturing Capabilities

## Quickturn PCB Service

**Low-cost and quick fabrication from just \$4.90 for 10 pieces, 3 day turnaround.**

- Rigid FR4, Aluminum, Flexible PCBs
- Up to 6 layers
- 6 free color options
- Detailed status updates online
- Instant Online Quoting

## Premium PCB Service

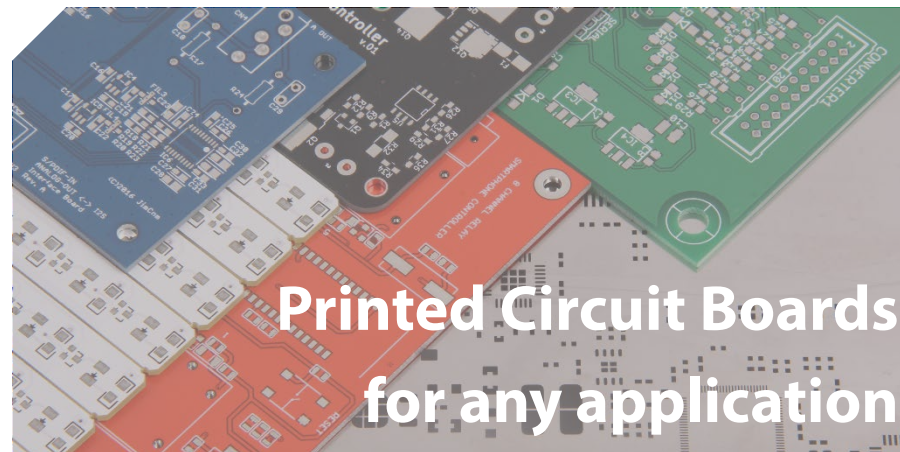
**Tailored production for the best reliability, tighter tolerances and precision manufacturing.**

- In-depth design for manufacture (DFM) review
- Only the best materials and equipment from internationally recognized brands
- Ideal for even the most stringent medical, automotive, communications, industrial applications
- Instant Online Quoting

## Advanced PCB Service

**High-end advanced PCB capabilities for boards at the forefront.**

- 30+ Copper layers
- High TG, Rogers high-frequency materials and more
- Rigid-flex, HDI boards, microvias, plugged vias,
- Request a quote online



# ► Testing and Certification Capabilities

## Functional Testing

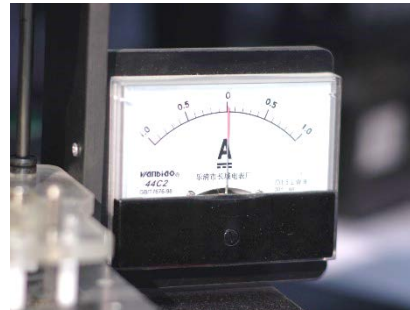
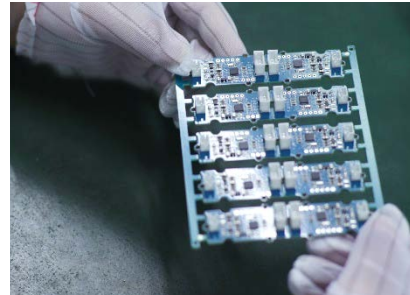
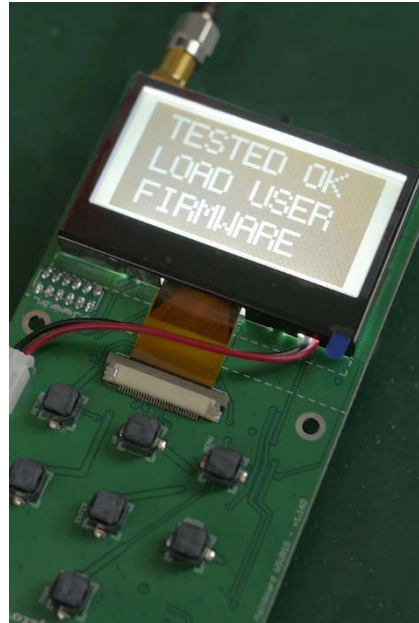
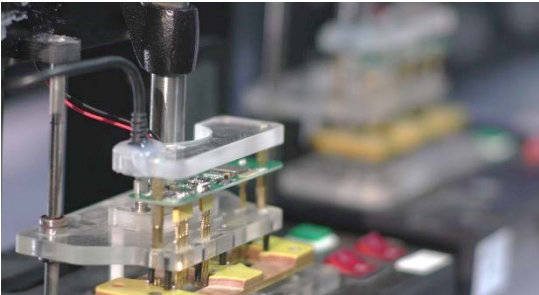
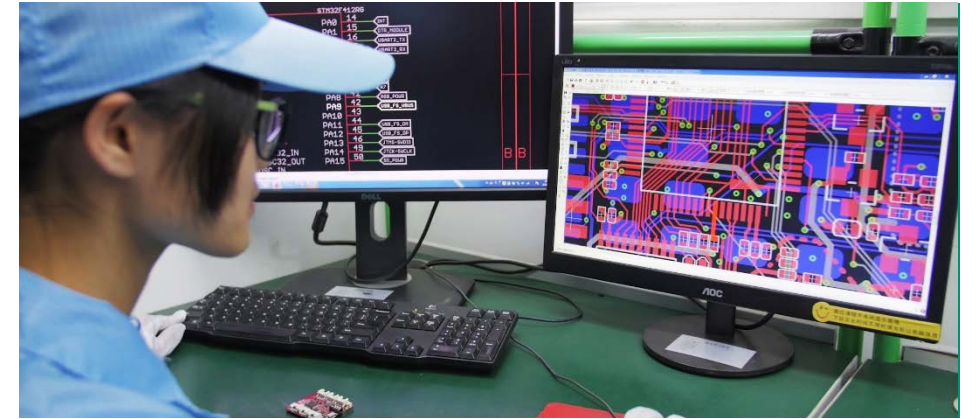
Maximize yield and troubleshoot errors before they leave the workshop.

Test jig design and construction  
Full capability testing

## Design for X Engineering Expertise

Optimize the design and reduce manufacturing errors with an expert second opinion.

PCBA Design for Assembly (DFA)  
PCB Design for Manufacture (DFM) and more..



## Certification Handling

Professional assistance for obtaining the most popular certifications and qualifications, whether performed by a registered lab or self-certified.

FCC, CE, Telec, CPSIA and more..



CPSIA





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get started.**

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