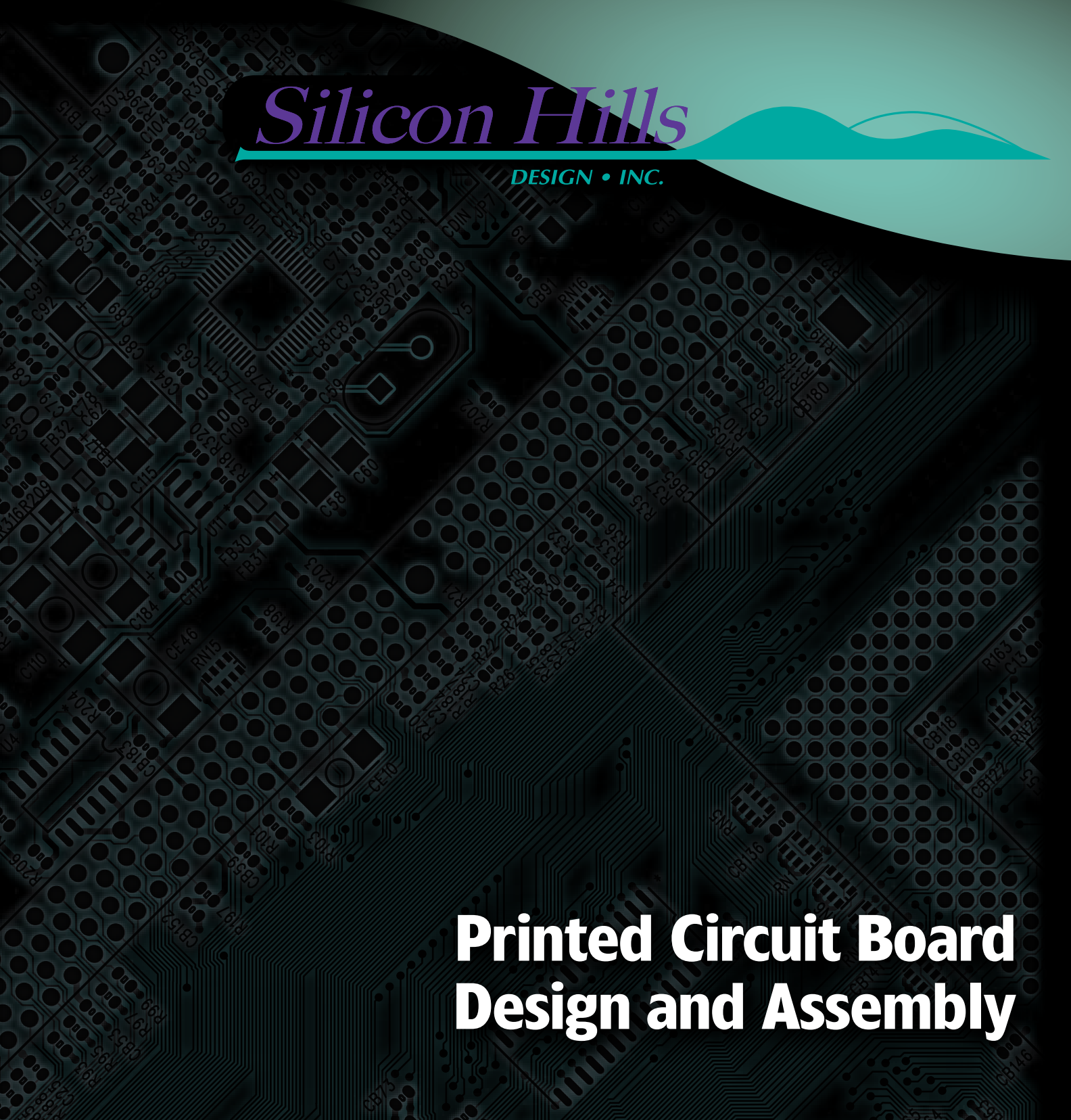




*Silicon Hills*

DESIGN • INC.



**Printed Circuit Board  
Design and Assembly**

# Silicon Hills PCB Design and Assembly

## Your Partner – Your Advantage

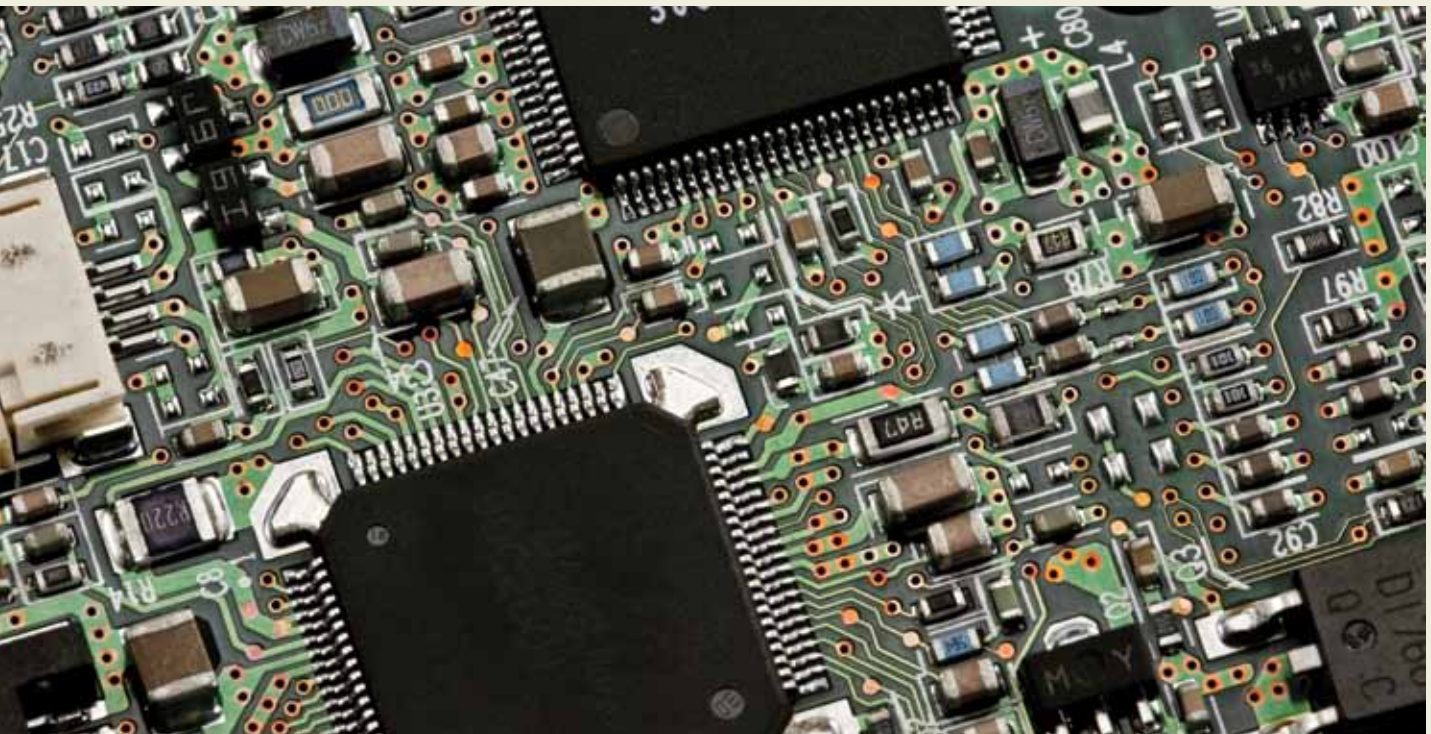
What factors influence the success of your Printed Circuit Boards Assemblies (PCBAs) in the marketplace? How do you get to market more quickly and with higher quality standards? Being able to answer these questions helps set technology companies apart and gives them significant competitive advantages.

## Competitive PCB Design and Assembly

Silicon Hills Design offers end-to-end design and manufacture of PCBAs. From board design to assembly to your unique value-added requirements—our goal is to consistently provide service and value that exceeds our customers' expectations.

## Design and Engineering

Our design team applies the latest knowledge in PCB design technology to your projects. Then our expert designs are combined with our proven assembly capabilities to bring you optimized Design for Manufacture (DFM) and Design for Test (DFT) availability.



## **Procurement**

To provide you with the highest quality and cost efficient parts, our skilled procurement team researches all possible options. We gladly accept consigned kits, if this is your preference.

## **Quality Assembly You Want**

Our dedicated staff and process equipment ensure that your project is assembled to the highest quality standards and is delivered on time, every time. Our robust processes ensure your product is built right the first time eliminating unnecessary and costly rework.

## **Relentless Focus on Customer Requirements**

Whether it is the complex and critical nature of your products or sensitivity to security issues, we have the flexibility to meet your requirements. We listen and educate ourselves about your company in order to offer you personalized project management. We understand that one size does not fit all. Every customer is different.



## **Continuous Improvement**

At Silicon Hills, we are always open to new ideas and challenges. We entered the world of manufacturing through the encouragement of our clients. Our customers feel secure in the fact that we can develop high-quality, high-performance products of various complexities, at a fair price, and on time.

## **Our Commitment to Excellence**

Certified to ISO 9001:2008, WEEE Initiatives, RoHS compliant, Local IPC Chapter, SMTA, City of Austin Chamber of Commerce

# Our Capabilities

## PCB Design

Pads  
Allegro

## Surface Mount

Component Range:  
0201 – 45x45mm  
Minimum Lead Pitch  
0.4mm (0.0157")  
PCBA Sizes (Max)  
16" x 18" All Machines  
18" x 24" Limitations

## Plated Through Hole

Wave Solder  
Selective Solder

## Rework

BGA Repair  
BGA Re-ball

## Process

Leaded  
RoHS5 (High Reliability)  
RoHS (Lead-Free)

## Test

Flying Probe  
Functional

## Value-Added Capabilities

Press-Fit  
Cabling  
Mechanical Assembly  
Box Build  
X-Ray Services

# Check List:

- Nondisclosure Agreement**
- Define Project**
- Request for Quote**
  - Bill of Material
  - Schematic / Netlist
  - Fabrication Drawings
  - Assembly Drawings
  - CAD / Gerber Data
  - Quantity Required
  - Delivery Requirements
  - Turnkey or Consigned
- Quote Delivery / Review**
- Purchase Order**
- Design Phase**
- Material Procurement**
  - Material Status Reports Provided
- Assembly Process**
  - PCBA – Cable – Mech – Box Assy
- Test Phase**
  - Flying Probe – Functional Test
- Mechanical Assembly**
  - 5S – Lean – High Yields
- Delivery**
  - On-Time Delivery – Tracking Information
- Invoicing Phase**
  - Thank you for your business!



## Industries We Serve

Medical  
Aerospace  
Defense  
Oil and Gas  
Consumer Electronics

Telecommunication  
Energy  
Semiconductor  
Industrial Controls

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WEEE, RoHS and RoHS5 compliant