

QUALITY LEADER

SIERRA
CIRCUITS

SINCE 1986

About Sierra Circuits

Sierra Circuits is the leading name in high technology, quickturn printed circuit boards, specializing in PCB manufacturing and the assembly of High Density Interconnect technology. Sierra Circuits handles all aspects of PCB production, from PCB layout to manufacturing and assembly. Customers are guaranteed quality, reliability, and a single point of support on every single order.

We are known for producing high-quality boards that are manufactured and shipped on time. As a single point-of-contact for all steps of your PCB order, we strive to simplify your ordering process.

No more miscommunication between multiple vendors. No more delays. Sierra Circuits is exactly what you've been looking for.

Our Mission

Sierra Circuits strives to provide products and services that benefit designers and engineers at each level of technology.

PCB Capabilities

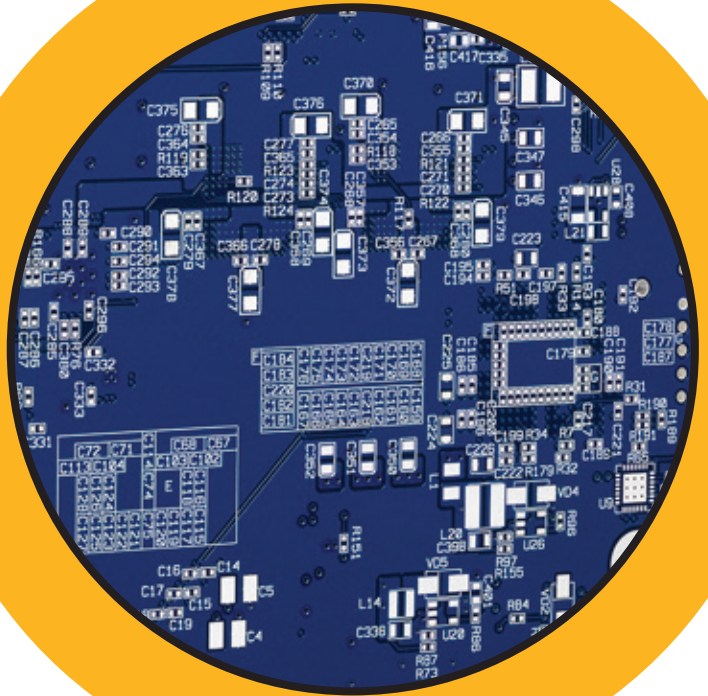
Sierra Circuits is proud to serve a wide variety of markets, including military, aerospace, medical, commercial, and instrumentation. We have decades of experience manufacturing and assembling all types of quickturn prototype PCBs, including: standard, HDI, high-reliability, microelectronics, flex and rigid-flex. A complete list of our PCB capabilities is available on our [website](#).

Our Capabilities Include:

- Same day assembly
- Turnkey in five days or less
- Custom PCBs up to 30 layers
- Same day 2 layer PCB manufacturing
- Quickturn flex prototypes
- 1 mil trace/space prototypes & production
- Heavy copper with fine lines

Our Free Tools Include:

- Instant Turnkey Quoting
- PCB Material Selector
- Impedance Calculator
- HDI Stackup Planner



Certifications





HDI & Microelectronics

Using High Density Interconnect technology can produce better manufacturing yields and lower costs. Sierra Circuits' HDI capabilities include laser microvias, blind and buried vias, fine lines and spaces, sequential lamination, and via-in-pad technology. Using our in-house YAG laser machines, we can laser drill 2 mil, or 50 micron, size microvias. Learn more about HDI at protoexpress.com/HDI

New Technology:

Our laser direct imaging systems route consistent traces and spaces on our semi-additive processes for high yield **25 microns** trace & space. We offer embedded capacitance materials, coreless construction, any to any via technology for small quantity, quickturn prototypes and small production orders. Read more about our micro and fine line services at protoexpress.com/micro



HDI Stackup Planner

Our HDI Stackup planning software asks a few questions about your design, then recommends relevant starting stackups optimized for manufacturing, reliability and cost. Try now at PCBWEBTOOLS.COM

Flex & Rigid-Flex

Flex and rigid-flex PCBs save space and reduce overall board cost. We manufacture thin, high density, high speed flex and rigid-flex technology for commercial, aerospace and medical industries. Our boards have been used in implantable and handheld medical device applications.

Sierra Circuits regularly produces single- and double-sided flex boards with fine lines, and blind and buried vias. We regularly produce trace & space down to 2 mils on flex.

Products include quickturn, turnkey, and high technology flex. All our boards are of the highest quality, and can be produced on deadlines as quick as 24 – 48 hours using thin polyimide film (.5 mil, 1 mil, 2 mil, 3 mil) and thin copper foils (¼ oz, ½ oz, 1 oz) on trace & space as small as 50 microns.

Check out our flex resources & design tips at:
protoexpress.com/flex-pcb



Testimonial

“We are very pleased with the manufacturing and assembly of our boards. They involved quite a bit of hand-holding on your part, which we really appreciate.” – **Design Engineer, Palo Alto, CA**

PCB Assembly

Sierra Circuits is more than just a PCB manufacturer. We are a one-stop shop for all your PCB assembly needs, including assembly and turnkey services in five days or less.

We know our customers are busy; we offer turnkey, consigned and partially consigned assembly services to save on time and cost, and increase customer efficiency.

Our Dage 3D X-ray machines are equipped with rotating cameras, which carefully inspect the board. From solder joints to correctly placed components, we carefully inspect all aspects of your assembly job. We inspect with state of the art AOI.

Capabilities include fine pitch components, BGAs, micro BGAs, QFNs, surface mount and mixed technology assembly. We have manufacturing software that records process improvement data, work instructions and information required for traceability in military and medical applications.

Visit protoexpress.com/assembly for more.



Online Turnkey Quoting

We are proud to announce the newest Sierra Circuits feature: Instant Online Turnkey Quoting. Upload your files and data and receive a custom turnkey quote within minutes. **INSTANTTURNKEYPCB.COM**



TURNKEY PCBs IN 5 DAYS OR LESS

Greetings:

Sierra Circuits has proudly served more than 20,000 PCB designers and engineers since 1986. Our customers rely on us for the design, manufacturing and assembly of their printed circuit boards. As PCBs grow smaller and trace & space becomes tighter, reliable microelectronics have a larger emphasis in our field.

Sierra Circuits can reliably produce 1 mil trace & space with 90% yield.

We deliver high-quality HDI PCBs, and handle all aspects of PCB assembly, from PCB layout and design to assembly and manufacturing. We aim to simplify your PCB fabrication and assembly process. Our services include turnkey, consigned and partially consigned assembly. Additional services include high-reliability and rigid-flex and flex PCBs, and microelectronics. We provide customers with quality, reliability, and a single point of support from our Silicon Valley facilities.

If there is anything we can do to assist you with your next project, let us know.

We look forward to working with you!

Ken Bahl

President
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Design Consultation

PCB Fabrication

Component Purchase

Board Assembly

Turnkey PCBs in 5 days or less

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