



MIXED-SIGNAL FULL CUSTOM ICs

**AFFORDABLE
HIGHLY
INTEGRATED
TURNKEY
SOLUTIONS**

LSI/CSI

LSI Computer Systems, Inc.

ICs that make products better

PROVEN LEADERS IN

THE DESIGN OF FULL

CUSTOM INTEGRATED

CIRCUITS SINCE 1969

- ◆ High performance at a low unit cost
- ◆ Industry-best turnaround time
- ◆ Superior innovative designs, proven across a broad range of industries
- ◆ Complete turnkey development
- ◆ Total design support, from concept to silicon and beyond
- ◆ Multiple foundry partners for on-time, reliable production
- ◆ 100% tested and guaranteed ICs, using advanced ATE
- ◆ Worldwide support and service

- Analog
- Digital
- Mixed-signal

- Fusible link
- EPROM
- EEPROM

NON-VOLATILE MEMORY OPTIONS

- CMOS
- Bipolar
- BCDMOS
- BiCMOS

VERY HIGH & LOW VOLTAGE

MAKE YOUR PRODUCT THE BEST IT CAN BE

THE IDEAL HIGH-VOLUME, LOW-COST SOLUTION

Specifying an LSI/CSI full custom IC is the most cost-efficient way to design maximum functionality, performance, reliability and value into your high-volume products. There are widespread misconceptions that all

full custom IC development costs are extremely expensive. However, our NRE charges are very affordable.

In addition, our full custom ICs have been proven to deliver the lowest per-unit cost for high-volume products, and provide additional savings by requiring the least amount of outboard components to:

- Simplify your manufacturing process
- Reduce your inventory costs
- Lower your testing costs.

SUPERIOR PERFORMANCE, PROPRIETARY PROTECTION

LSI/CSI chip designers look beyond just the specifications, to innovate and design-in characteristics that enable you to differentiate your product and realize savings that result from:

- Lower power consumption
 - Better product performance
 - Greater product reliability.
- By designing a custom chip that economically integrates all required analog and digital functions, we ensure that your full custom IC is the smallest, most efficient solution for your needs.

The full custom IC we design for you is your intellectual property, exclusively.



WITH AN LSI/CSI FULL CUSTOM IC

STANDARD AND

MODIFIED-STANDARD:

OFF-THE-SHELF

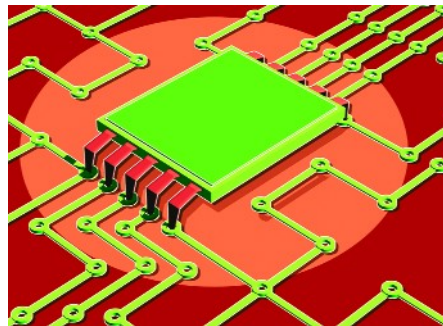
AND ON THE MONEY

TURNKEY DEVELOPMENT, FASTER TURNAROUND

LSI/CSI provides true turnkey development of full custom ICs. The more we know about your requirements, and the earlier in your design process we know it, the more we can increase system integration, enhance your product's performance, reduce your costs and ensure timely delivery. From concept to silicon to finished product, no other integrated circuit developer beats our time-to-market with fully tested, guaranteed full custom ICs.

FABULOUS FAB-LESS FLEXIBILITY

LSI/CSI focuses on the optimal design and development of your full custom IC, while providing the increased flexibility and superior manufacturing technology of our multiple foundry partners. Our fab-less approach allows us to design your IC in the process that offers the best balance of performance and cost, while LSI/CSI quality control and 100% testing ensure that we deliver reliable ICs that meet the most exacting standards.



LSI/CSI's numerous foundry partners provide multi-sourced production capabilities to support your full custom ICs.



LSI/CSI also manufactures several non-proprietary standard integrated circuits, and can often meet an OEM's design specifications with an existing chip design – or by quickly modifying one of our standard ICs. These readily available chips are ideal for a broad range of applications, including:

- ◆ AC Motor Controllers
- ◆ Brushless DC Motor Controllers
- ◆ Counters
- ◆ Dividers
- ◆ Incremental Encoder Interfaces
- ◆ Lighting Controls
- ◆ PIR Motion Detector Interfaces
- ◆ Programmable Digital Delay Timers
- ◆ Programmable Digital Locks

Ask for our Standard IC
Short Form Catalog
or visit

www.lsic.com

LET AN LSI/CSI

FULL CUSTOM IC

MAKE YOUR

PRODUCT BETTER

WHICH IC SOLUTION IS THE RIGHT IC SOLUTION?

PLAs, Gate Arrays and Standard Cell ASICs can't match the low-cost / high-performance benefits of full custom ICs or microcontrollers (μ Cs). So, when cost and performance drive your decision-making process, how will you decide between a full custom IC and a μ C? LSI/CSI suggests you compare the cost impact of each on your product. Because we believe that if you don't consider a full custom IC, there's a good chance you're leaving money on the table. A full custom IC also provides maximum protection for your intellectual property, as well as guarding against possible μ C shortages (allotments) that can occur in good economic times.

LSI/CSI full custom integrated circuits have much lower NREs and faster turnaround times than you may think. For a free consultation, or a quote, call 631 271-0400, or email service@lsicsi.com.

An ISO 9001:2000 Certified Company

LSI/CSI **LSI Computer Systems, Inc.** *ICs that make products better*

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A PROVEN LEADER FOR OVER THREE DECADES

Founded in 1969, LSI Computer Systems, Inc. began operations as the world's first fab-less semiconductor company. Since inception, LSI/CSI has been a leader in the design and production of full custom and standard integrated circuits. Using a broad array of process technologies, LSI/CSI has produced ICs for customers ranging from the consumer and industrial marketplace to military and aerospace industries. Our proven expertise and strong reputation have made us the IC provider of choice for leading manufacturers in a broad range of industries.

