

Laker™ Custom Digital Router



CUSTOM IC DESIGN SOLUTIONS

The Laker™ Custom Digital Router brings new efficiency to digital design in mixed signal ICs. When combined with the Laker Custom Row Placer, this new router offers a very effective package for high-performance digital design in a custom IC layout environment.

Benefits

The Laker Custom Digital Router saves you time with unique automation technology for routing of digital blocks within the Laker Custom Layout Automation System. Creating digital blocks within a custom environment allows you to:

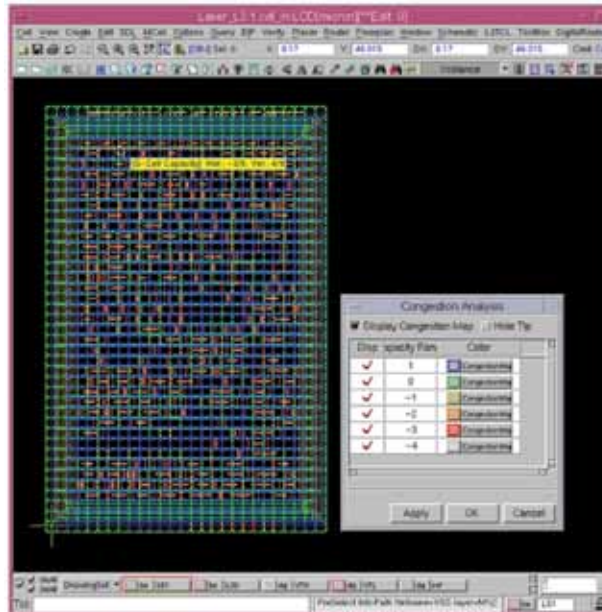
- Avoid time-consuming switching between digital automatic place and route (P&R) and custom layout environments and the associated data preparation and translation
- Leverage all the features of the Laker Custom Layout Automation System for things like hand-routing of critical nets and hand-optimization of critical cell placements
- Save time using proven standard cells for high performance digital applications that previously had to be done by hand
- Incremental routing that allows hand-routing of critical nets before completing the remaining nets automatically
 - > Enables ECO routing at any point in the layout process
- Advanced nanometer rule support that dramatically reduces DRC escapes
 - > Post-route DRC reports with error viewer to see any remaining DRCs
- Post-route yield optimization that includes double via insertion, antenna fixing and jog removal
- Power and ground grid placement and routing for a complete solution
- Spine routing for memory-style routing with restricted metal layers
- LEF/DEF and Verilog import and LEF/DEF export capabilities
- Post-route DRC reporting with error viewer to see remaining DRCs

Features

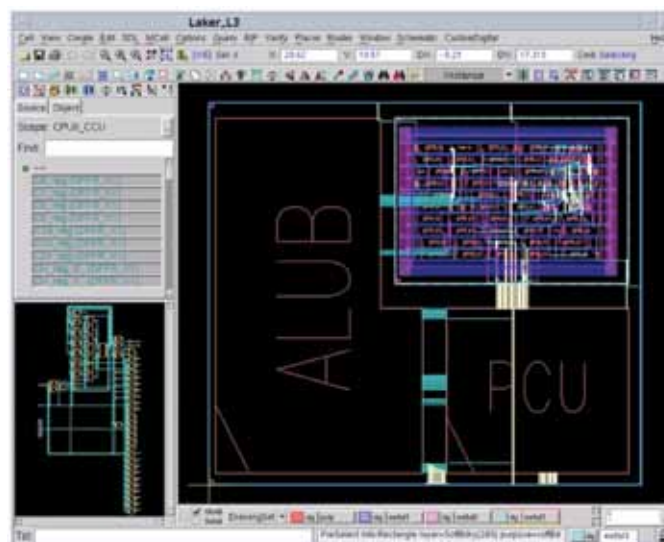
The Laker Custom Digital Router is ideal for small to medium-sized digital design portions of custom mixed-signal designs. Features include:

- Fixed height standard/custom cell routing
- Unique hybrid routing technology that combines gridded and shape-based routing for very high route completion rates while being DRC clean.
 - > Global routing that provides congestion analysis, mapping and display
 - > Shape-based routing that eliminates incomplete routes and DRC errors

The Laker Custom Digital Router is optimized to work with designs of up to about 50,000 cells/nets and is not timing driven. The Laker Custom Digital Router is also extended to work with the Laker Custom Row Placer to minimize wire lengths and assure routable placements. The Laker router allows you to work in a single comprehensive design environment for maximum productivity.



Congestion maps help you optimize placement and routing channels to maximize completed routes



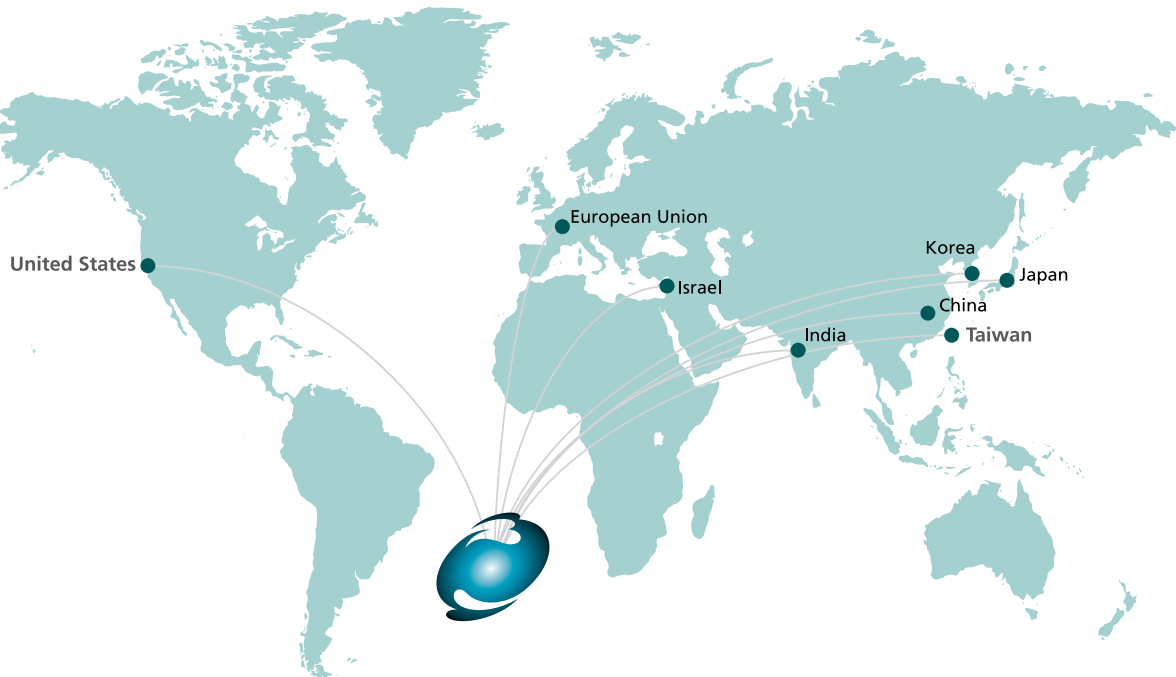
Laker Custom Digital Router in a mixed-signal design

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SpringSoft Offices



United States

SpringSoft USA
(Headquarters)
2025 Gateway Place
Suite 400
San Jose, CA 95110
Tel: (408) 467-7888
Fax: (408) 467-7889
www.springsoft.com

Taiwan

SpringSoft Taiwan
(Headquarters)
No. 25, Industry East Road IV,
Science-Based Industrial Park,
Hsinchu 300, Taiwan, R.O.C.
Tel: +886 (3) 579-4567
Fax: +886 (3) 579-9000
www.springsoft.com/ch/

Europe & Israel

SpringSoft Inc. Europe Office
SpringSoft Design Automation Ltd
Synegis House
21 Crockhamwell Road
Woodley, Reading RG5 3LE UK
Phone/Fax: +44(0)11890 76389
www.springsoft.com

South East Asia

Waiz Pte Ltd
23 Springleaf View
Singapore 787928
Tel: +65-64515217
Fax: +65-64515217
www.waiz.info/

Japan

SpringSoft K.K., Inc.
KAKIYA Bldg. 6F 2-7-17
Shin-Yokohama, Kohoku-ku,
Yokohama 222-0033 Japan
Tel: +81 (45) 470-8890
Fax: +81 (45) 470-8891
www.springsoft.com/jp/

Korea

Kitec Design Technology Co., Ltd.
SinDo Bldg 2FL, 10,
Garak-Dong, Songpa-Gu,
Seoul, Korea, 138-800
Tel: +82 (2) 2140-5500
Fax: +82 (2) 2140-5555
www.ktdesign.co.kr/

China / Hong Kong

SpringSoft Co., Ltd.
(Shanghai)
Room A, 5FL, 398 Tianlin Rd.,
Shanghai, 200233 China
Tel: +86-21-54902090
Fax: +86-21-54902093
www.springsoft.com/sch/

India

CMR Design Automation P. Ltd,
Bangalore
3516, 14th 'A' Main, Indiranagar,
HAL IIInd stage,
Bangalore, PIN:- 560008 India
Tel: +91-80-5276866/5261274
Fax: +91-80-5279741
www.cmrda.com/

CMR Design Automation P. Ltd, Delhi

E-534, Greater Kailash - II,
New Delhi, PIN:- 110048 India
Tel: +91-11-6477085/8637128
Fax: +91-11-6213498