

# Probabilistic Chip Trends: Market Research Report

<https://marketpublishers.com/r/P58A62F8775EN.html>

Date: December 2013

Pages: 5

Price: US\$ 950.00 (Single User License)

ID: P58A62F8775EN

## Abstracts

'Scaling to nanometer levels and simultaneously sustaining Moore's law pose a number of challenges such as parameter variations, noise and various device perturbations. Such probabilistic or statistical behavior occurs at device level of every transistor. In order to address the critical requirement, a modern approach to statistical designs and error tolerance in the form of a new set of probabilistic architectures, referred to as probabilistic system-on-a-chip (PSOC) is being implemented.'

The report highlights the development of probabilistic complementary metal-oxide semiconductor (PCMOS) technology, and also illustrates the energy savings at the device level and considerable performance and energy advantages at the application level. In addition, the report briefs about the PSOC architecture focusing on harnessing probabilistic behavior of a PCMOS device to develop architectural primitives featuring definite statistical behaviors.

## Contents

### **1. PROBABILISTIC CHIPS - A FOCUS REPORT**

Introduction

Methodology

Modern Microchip

PCMOS Technology Offers Considerable Energy Saving and Fast Calculation

### **2. NOTEWORTHY MARKET PARTICIPANTS**

Analog Devices, Inc. (USA)

Lyric Semiconductor, Inc. (USA)

### **3. CORPORATE INITIATIVES**

Analog Devices Takes Over Lyric Semiconductor

ISAID Collaborates with CSEM to Unveil New Pruning Technique

Lyric Semiconductor Unveils New Error Correction Chip for Flash Memory

Lyric Semiconductor Develops New Chip Architecture to Accelerate Computation of Large Data Applications

Lyric Semiconductor Unveils New Probability Processing Technology

### **4. APPENDIX**

## I would like to order

Product name: Probabilistic Chip Trends: Market Research Report

Product link: <https://marketpublishers.com/r/P58A62F8775EN.html>

Price: US\$ 950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P58A62F8775EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970