

3D Transistor Trends: Market Research Report

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Abstracts

The report projects that 3D Transistors is set to become the norm as a 3D transistor is an advanced transistor that is manufactured by using nano wires in comparison to traditional usage of silicon. The development of 3D Transistors is likely to change the dynamics of semiconductor manufacturing industry. The manufacturing process of 3D transistors involves a top-down method, wherein components of the transistor are etched on the transistor's base. The nano wires, made of iridium, gallium as well as arsenide semiconductors, are layered with a thinner dielectric made of lanthanum aluminate for performing the gate operation efficiently with reduced voltage requirements.



Contents

1. 3D TRANSISTORS – AN OVERVIEW

Transistors – An Introduction

3D TRANSISTORS – THE NEXT-GENERATION TRANSISTORS

3D TRANSISTORS VS. 2D TRANSISTORS

3D TRANSISTORS - ADVANTAGES

Future Developments

3D CHIPS – APPLYING 3D TRANSISTORS TO IMPROVE PERFORMANCE OF FUTURE ELECTRONIC DEVICES

Stacking Techniques

3D CHIPS-MAJOR CHALLENGES TO OVERCOME

Recent 3D Chip-based Developmental Activities
TSMC to Challenge Intel's Leadership in Advanced Semiconductor Manufacturing
Technology

2. END-USE APPLICATIONS

3D-ENABLED SMARTPHONES

Table 1. Global Market for 3D-Enabled Smartphones by Region/Country (2014P): Percentage Market Share Breakdown for US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World

Media Tablets

Table 2. Global Market for Media Tablets by Region/Country (2014P): Percentage



Market Share Breakdown for US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa and Latin America

Ultrabooks

Table 3. Global Market for Ultrabooks by Region/Country (2014P): Percentage Market Share Breakdown for US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America

Netbooks

Table 4. Global Market for Netbooks by Region/Country (2014P): Percentage Market Share Breakdown for North America, Japan, EMEA, Asia-Pacific, and Latin America

3. RECENT INDUSTRY ACTIVITY

Altera and Intel Enter into Partnership

Synopsys and Samsung Announce Tapeout of First 14-nanometer FinFET-based Test Chip

TSMC Partners with ASML

United Microelectronics and IBM Technology Ink Agreement Soitec and SEMATECH Enter into Partnership

4. PRODUCT LAUNCHES/INNOVATIONS

IEMN and LAAS-CNRS Develop 3D Nanometric Transistor Synopsys Unveils Comprehensive Solution of EDA IP and Tools Intel Unveils Range of Quad-Core 3rd Generation Processors Globalfoundries Unveils 14-nanometer eXtreme Mobility Process Intel Unveils Xeon Server Processors Intel Introduces Tri-Gate 3D Transistor Intel Unveils Silvermont Atom Chip Architecture

5. MARKET PARTICIPANTS

Globalfoundries, Inc. (USA) Intel Corporation (USA)



Laboratoire D'analyse ET D'architecture Des Systèmes (LAAS-CNRS) (France)
National Institute of Advanced Industrial Science and Technology (AIST) (Japan)
Samsung Semiconductor, Inc. (USA)
Soitec SA (France)
Taiwan Semiconductor Manufacturing Co. , Ltd. (TSMC) (Taiwan)
Unisantis Electronics (Japan) Ltd. (Japan)

6. APPENDIX



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