

Advanced Solid-State Memory Systems: Market Research Report

<https://marketpublishers.com/r/A84B44FEB0EEN.html>

Date: June 2012

Pages: 731

Price: US\$ 3,950.00 (Single User License)

ID: A84B44FEB0EEN

Abstracts

This report analyzes the worldwide markets for Advanced Solid-State Memory Systems in US\$ Million.

The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, China, South Korea, and Rest of World.

Annual estimates and forecasts are provided for the period 2009 through 2018.

The report profiles 58 companies including many key and niche players such as 4DS, Inc., Adesto Technologies Corporation, Inc., Crocus Technology SA, Everspin Technologies, Inc., Grandis, Inc., Intel Corporation, LSI Corporation, Micromem Technologies, Inc., Nantero, Inc., NVE Corporation, OCZ Technology Group, Inc., Ramtron International Corporation, Samsung Semiconductor, SK Hynix Semiconductor Inc., Thin Film Electronics ASA, and Toshiba Corporation.

Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based upon search engine sources in the public domain.

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

Current & Future Analysis
Solid-State Drives Expected to Gain Wider Dominance in Storage Market
Market Demand Driving Developments in Advanced Solid-State Memory Systems
Phase Change RAM Holds Potential in Replacing Flash Memory

2. DIGITAL MEDIA STORAGE – AN OVERVIEW

Digital Media Storage Devices: A Definition
Types of Digital Media Storage Devices
Optical Media Storage Devices
CDs
Digital Video/Versatile Disc (DVD)
Blu-Ray Disks
Hard Disk Drives (HDDs)
Solid State Drives (SSDs)
USB Flash Drives
Features & Benefits
Convenience & Efficiency
Safety of Data
Dense Storage
Software Portability
Easy Interface
Lesser Power Consumption
Ready-to-Use
Disadvantages

Issues with Data Fragmentation
Quality Control Issues
Memory Cards

3.TRENDS IN DIGITAL MEDIA STORAGE

Digital Age Drives Demand for Storage

1ST GENERATION DIGITAL MEDIA STORAGE GIVE WAY TO NEWER SOLUTIONS

Modern Day Storage Issues
Solid-State Storage Media: The Next Generation of Storage
Flash Based SSDs – The Most Popular SSDs
SSDs – Will They Replace HDDs?
USB Flash Drives: Market Overview
USB Flash Drives Usher in the Era of Smart Storage

Table 1. US Market for USB Flash Drives (2011): Percentage Share Breakdown of Volume Sales by End-Use Segment (includes corresponding Graph/Chart)

Table 2. Enterprise Uses of USB Flash Drives: Percentage Share Breakdown of Volume of Stored Data by Nature of Information (includes corresponding Graph/Chart)

PCs with USB Ports as a Standard Feature Drive Demand for USB Flash Drives
Demand for Secure USB Flash Drives to Surge
Memory Power Enhancements: The Saga Continues
USB 3.0 – Technology of the Future
SD Memory Card – The Preferred Form Factor for Memory Card
Advancements in NAND Technology Broaden Scope for SD Cards
Low Priced and High Capacity Small Form Factor to Facilitate Growth
Geographical Variations in SD Memory Card Market

Table 3. Global Secure Digital (SD) Memory Cards Market (2010-2012): Percentage Breakdown of Dollar Sales by Geographic Region (includes corresponding Graph/Chart)

Growing Uptake of Smartphones Facilitating Growth of SD Memory Cards Market

SSDs to Increasingly Gain Mileage in Storage Market

4.PRODUCT OVERVIEW

An Introduction

Existing Solid-State Memory Technologies

Static Random Access Memory (SRAM)

Dynamic Random Access Memory (DRAM)

FLASH Memory

Comparison between SRAM, DRAM, and Flash Memory

Limitations of Existing Memory Technologies

Advanced Solid-State Non-Volatile Random Access Memory

Key Advanced Solid-State RAM Technologies

Phase Change Random Access Memory (PRAM)

Magneto-Resistive Random Access Memory (MRAM)

Resistive Random Access Memory (RRAM)

Comparative Analysis

Comparison between PRAM, MRAM/STT-MRAM, and RRAM/Memristor

Applications

Storage Class Memory

Smart Airbags

RFID Systems

Mobile Phones

5.PRODUCT/TECHNOLOGY INTRODUCTIONS

Micron Technology Unveils RealSSD™ C400 mSATA SSD for Ultrathin Laptops

Texas Instruments Rolls Out PMICs for Solid-State Drives

SeaChange International Launches MediaServer 1200XD Broadcast Video Servers

Texas Memory Systems Launches RamSan-720 Flash Storage System

OCZ Technology Group Unveils Talos 2 SAS 6G SSD Series

OCZ Technology Group Introduces RevoDrive 3 Max IOPS Series

MOSAID Technologies Introduces 256GB HLNAND™2 Flash Memory Chip

Plextor Unveils True Speed M2P Series SSD

Kingston Digital Europe Unveils Kingston SSDNow KC100 Solid State Drive

Intel Rolls Out New Range of 710 Series Solid State Drives

Texas Memory Systems Launches RamSan-810 SAN Flash System

Samsung Electronics Unveils New Range of 830 Series Internal Solid State Drives

OCZ Technology Group Unveils Deneva 2 SSD Series for Enterprise Clients

Corsair Memory Launches Force Series SSDs with Non-Standard Capacity
SanDisk Unveils Two New Solid-State Drives for Ultra-Thin Notebooks and Tablets
Integrated Silicon Solution Launches IS64WV25616EDBLL Asynchronous SRAM
Curtiss-Wright Controls Embedded Computing Launches XMC-552 SSD Card
SMART Launches XceedIOPS SAS SSD Enterprise Storage Device
Iomega Introduces Solid State Drives for Consumers and SMBs
Micron Technology Launches New RealSSD P300 Solid-State Drives
Virident Systems Introduces tachIO on Solid State Disk
Patriot Memory Rolls Out Zephyr Series
TDK Introduces SHG2A Series SSD Modules
Hitachi Global Storage Technologies Unveils Ultrastar SSD400S Series
Texas Memory Systems Unveils RamSan-6200 SSD System
Samsung Electronics Launches New SSDs
G-Technology Introduces Range of External Solid-State Drives
Texas Memory Systems Launches RamSan-20
SanDisk Introduces G3 Solid-State Drive Series

6.RECENT INDUSTRY ACTIVITY

Micron Technology Signs Agreements with Intel
Micron Technology and Xilinx Demonstrate FPGA Interfacing with RLD RAM 3 Memory
Apple Purchases Anobit Technologies
SanDisk Takes Over Pliant Technology
LSI Acquires SandForce
Western Digital Signs Agreement to Take Over Hitachi Global Storage Technologies
Seagate Technology Acquires HDD Business of Samsung Electronics
OCZ Technology Group to Acquire UK Design Team of PLX Technology
STEC Signs Distribution Agreement with Newtech
Silicon Storage Technology Inks Design Partnership Agreement with INSIDE Secure
QLogic Collaborates with Texas Memory Systems
Greenliant Systems Obtains Membership in Intel Embedded Alliance
Micron Technology and DSI Ink Agreement to Develop STT-MRAM
Micron Technology and Intel Establish IM Flash Singapore
Texas Memory Systems Inks Distribution Agreement with IDS and Vanrise Solutions
Greenliant Systems Purchases Select Assets of Microchip Technology
OCZ Technology Group Enters into Partnership with Dynamite Data
Samsung Electronics Inks Collaboration Agreement with Anobit
Texas Memory Systems Becomes Member of Linux Foundation
Violin Memory Signs Strategic Partnership with Toshiba

ROHM Signs License Agreement with MoSys for 1T-SRAM Technology
Nanosys and Sematech Enter into Partnership
Western Digital Acquires SiliconSystems
Samsung Electronics Enters into Partnership with Numonyx

7.FOCUS ON SELECT PLAYERS

4DS, INC. (US)

Adesto Technologies Corporation, Inc. (US)
Crocus Technology SA (France)
Everspin Technologies, Inc. (US)
Grandis, Inc. (US)
Intel Corporation (US)
LSI Corporation (US)
Micromem Technologies, Inc. (Canada)
Nantero, Inc. (US)
NVE Corporation (US)
OCZ Technology Group, Inc (US)
Ramtron International Corporation (US)
Samsung Semiconductor (South Korea)
SK Hynix Semiconductor Inc (South Korea)
Thin Film Electronics ASA (Norway)
Toshiba Corporation (Japan)

8.GLOBAL MARKET PERSPECTIVE

Table 4. World Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems by Geographic Region – US, Canada, Japan, Europe, China, South Korea, and Rest of World Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2009 through 2018 (includes corresponding Graph/Chart)

Table 5. World 10-Year Perspective for Advanced Solid-State Memory Systems by Geographic Region – Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, China, South Korea, and Rest of World Markets for Years 2009, 2012, and 2018 (includes corresponding Graph/Chart)

III. MARKET

1.THE UNITED STATES

A. Market Analysis

Overview of Semiconductor Industry

Product/Technology Introductions

Strategic Corporate Developments

Key Players

B. Market Analytics

Table 6. US Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018 (includes corresponding Graph/Chart)

2.CANADA

A. Market Analysis

Overview of Semiconductor Industry

Key Player

B. Market Analytics

Table 7. Canadian Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018 (includes corresponding Graph/Chart)

3.JAPAN

A. Market Analysis

Evolution of the Japanese Semiconductor Industry

Current Market Scenario

Product Launch

Strategic Corporate Developments

Key Players

B. Market Analytics

Table 8. Japanese Recent Past, Current and Future Analysis for Advanced Solid-State

Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018
(includes corresponding Graph/Chart)

4.EUROPE

A. Market Analysis

Overview of Semiconductor Industry

Product Launch

Strategic Corporate Development

Key Players

B. Market Analytics

Table 9. European Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018
(includes corresponding Graph/Chart)

5.CHINA

A. Market Analysis

A Rapidly Growing Regional Semiconductor Market

B. Market Analytics

Table 10. Chinese Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018
(includes corresponding Graph/Chart)

6.SOUTH KOREA

A. Market Analysis

Overview of Semiconductor Industry

Trade Scenario

Product/Technology Introductions

Strategic Corporate Development

Key Players

B. Market Analytics

Table 11. South Korean Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018 (includes corresponding Graph/Chart)

7.REST OF WORLD

A. Market Analysis

Overview of Indian Semiconductor Industry

Market Prospects

SD Card Market in India – An Overview

India, a Lucrative Market for SD Memory Card Manufacturers

Mobile Phones and Digital Cameras Driving SD Card Sales

Table 12. Indian Consumer Storage Device Devices (2011): Percentage Breakdown of Volume Sales by Categories - Flash Cards, Flash Drives and External HDDs (includes corresponding Graph/Chart)

Product/Technology Introductions

Strategic Corporate Developments

B. Market Analytics

Table 13. Rest of World Recent Past, Current and Future Analysis for Advanced Solid-State Memory Systems with Annual Sales in US\$ Million for Years 2009 through 2018 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 58 (including Divisions/Subsidiaries - 66)

The United States (44)

Canada (2)

Japan (7)

Europe (9)

- France (2)

- The United Kingdom (2)

- Rest of Europe (5)

Asia-Pacific (Excluding Japan) (4)

I would like to order

Product name: Advanced Solid-State Memory Systems: Market Research Report

Product link: <https://marketpublishers.com/r/A84B44FEB0EEN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A84B44FEB0EEN.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