

## *CORES, CONTROLLERS AND COMPETITION*

- **Simplicity Sells** – Low cost microcontrollers drive volume shipments.
- **Multicore SoCs** – future trend of heterogeneous designs driving high volume applications
- **Future of Computing** – Flexible, modular designs that can reconfigure multiple elements on the fly to optimize applications

### **CORES, COPNTROLLERS AND COMPETITION: *ONE PROCESSOR DOES NOT FIT ALL***

The processor is pervasive, a part of everything from sneakers to sophisticated black boxes. The market is being transformed. Old categories, such as MPUs, MCUs, DSPs or standard cell ASICs, are merging. Customers have multiple choices for embedded micrologic solutions. Semico's new Cores, Controllers and Competition Portfolio provides the information needed to understand this rapidly evolving market.

### **Studies**

#### **Market Analysis:**

Each study will emphasize an aspect of the processor, MCU or core market. Studies will provide information that can only be provided by an experienced applications engineer along with a baseline of information provided by the effort of a group of research analysts. Information not published in standard reports is available as custom or with inquiry time.

#### **Competitive Analysis:**

Throughout the year, Semico will provide insight into technology, end product, and product roadmaps for various competitors in the processor, MCU and core market place.

An analysis of the viability of new products or advancements will be made.

#### **Product Coverage**

Conventional market segment coverage will still be available upon special request. Custom consulting is available on a broad range of end use products and processors.

#### **The Relationship of Processors to Other ICs**

The processor does not operate alone in a system. Topics from memory to discretets will be discussed.

### **HISTORY AND FUTURE**

- The new categories
- The blurring of categories
- Design methodologies
- Requirements
- Low price
- Low power consumption
- Efficient use of die area

### **DESIGN CONSIDERATIONS**

#### ***REGULAR UPDATE ON WHO LICENSES WHAT***

- Volume
- Time to market
- Status and availability of IP
- Proprietary IP
- Customer IP
- Third Party IP
- Other considerations

### **QUARTERLY ANNOUNCEMENTS**

- Company
- Technology
- Market
- Logic Perspective

### **BEYOND THE FIVE YEAR HORIZON**

- New end-use applications
- Technology
- New markets,
- New/Disruptive products
- Not dominated by single IC maker
- Nimbleness and flexibility required,
- End-Use Market volatility

### **OUTLOOKS FOR CONSUMER, KEY PRODUCTS AND NEW PRODUCTS**

MARKET FORECASTS

CONVENTIONAL CATEGORIES

EMBEDDED MPUs, MCUs, DSPs



- ◆ Data
- ◆ Analysis
- ◆ Knowledge

**The Report Topics**

*Deconstruction of the X86*  
Teraflop in your future

*Memory in the Microcontroller*  
How much and what kind

*Embedded Control End Use Markets*  
Where the chips work and play

*Micrologic Market Overview*  
MCUs, MPUs and DSPs

*Sizing up the Competition*  
Micrologic Market Shares

*Game Consoles*  
Not just for kids.

*New Licenses for Cores*  
Who, What and Why

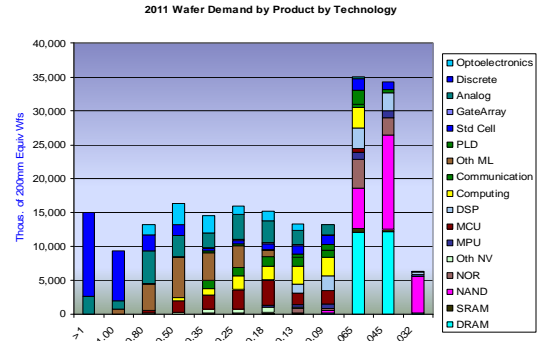
*Configurable Cores*  
Where are they today, tomorrow

*Topical Interest*  
TBD

<b>ORDER FORM</b>				
<b>CORES, CONTROLLERS AND COMPETITION PORTFOLIO</b>				
Portfolio Includes: History and Future Design Considerations Quarterly Announcements Outlook for Consumer, Key Products and New Markets Beyond the Five Year Horizon				
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## Manufacturing Portfolio

When your future success depends on accurate data and analysis, depend on the semiconductor-manufacturing experts at Semico. Get access to analysts to answer your specific billion dollar questions.



***"If we build it, will they come?"***

Semico Research Corp

In a time of multi-billion dollar fab facilities and markets maturing in less than 5-years you need forecasts delivered by a third-party firm known for its accuracy throughout the world. The manufacturing business model has changed dramatically, have you kept up?

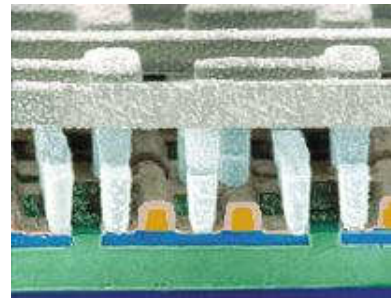
### Customized Research

- Custom, independent third-party analysis that answers questions:
  - "If we build it, will they come?"
  - How should we use our R&D budget most effectively?
  - Who are competitive companies? What are competitive technologies? Strengths, weaknesses, strategies?
  - What do potential customers say about our product?
  - What is the TAM for our product?
  - How sensitive is the market to product specs?
  - Where/how should we direct our sales efforts?
- Process technology analysis
  - Insightful review and critical assessment of new process technologies
  - How they will affect the future of wafer processing
  - How they will affect the future of your company's products
- Equipment and materials forecasts and roadmaps
  - TAM by process node, device type, wafer size and year
  - TAM sensitivity by product spec and variable assumptions

### Studies

Guided by end-market demand and bounded by the industry's best leading indicator, Semico provides:

- Reliable 5-year overall wafer demand forecast
  - Provides data/analysis for market and strategic planning
  - By device type, sub-type, process node, and year
  - End-market-based forecasts that exceed reliability of historical-data-based forecasts
- Accurate 5-year foundry wafer supply and demand forecast
  - Assess current and future foundry loading
  - Obtain in-depth information on foundry strategies and capacity plans
- Foundry Wafer Pricing (quarterly)
  - Wafer prices by technology obtained from survey data
  - Analysis and forecast provided by Semico
- Focused studies for timely understanding of emerging technologies:
  - SOI and strained silicon
  - Immersion, EUV, and the future of lithography, copper, low-k dielectrics, other current process technologies





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<b>MANUFACTURING PORTFOLIO</b>				
<b>Portfolio Includes:</b>				
Five-Year Overall Wafer Demand Forecast By Device By Technology				
Five-Year Foundry Supply and Demand Forecast				
Quarterly Foundry Wafer Pricing				
Focused Studies: Topics such as fab database, capacity utilization, SOI				
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## Semiconductor Procurement Metrics Service

- Compare your prices to electronics industry prices for similar devices
- Plan for the future
- Understand pricing trends
- Comprehend technology roadmaps

### Forward Visibility for Semiconductor Pricing and Availability

Production lines need assured supplies at predictable prices, but the semiconductor industry is a cyclical business. Semiconductor prices and availability swing rapidly in response to changes in supply and demand. Semico Research Corp. has developed a proven methodology for forecasting semiconductor prices and availability for up to eight rolling quarters. Information from the Semico Purchasing Metrics Service can help procurement keep production lines running with a steady supply of semiconductors purchased at the best contract pricing available.

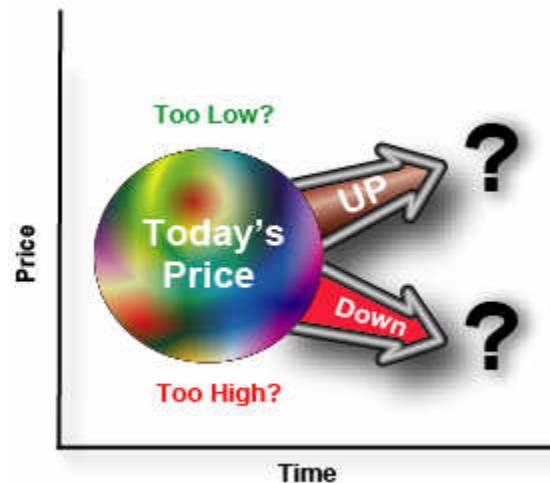
### Information

- Compare your prices to electronics industry prices for similar devices.
- Current semiconductor pricing data by semiconductor device type.
- Quarterly semiconductor pricing forecasts by semiconductor device type.
- Eight quarters of visibility for contract prices.
- Semiconductor price trend data.
- Compare ASP trend changes to forecasts.
- Flexibility: Define the product families you need to track.

### Customization

The Semico Procurement Metrics Service can be tailored to provide information to meet a wide variety of needs. Metrics can be provided for some or all of the semiconductor devices types listed in the right hand column. Metrics for other devices may be added, the type of information supplied can be altered or the Service can be adapted to meet special needs in numerous ways. Please give Semico a call to discuss your particular requirements.

**The Purchasing Metrics Service provides answers! Where are prices? Where are they going? What is changing? What impact of new or old technology?**



#### Semiconductor Device Types

Diodes	MCU (Microcontroller)
Zener Diodes	DSP (Digital Signal Processor)
Transient Protection	MOS Logic
Optoelectronics	General Purpose Logic
Displays	FPGA
Lamps	Graphics
LED by color	Communication
Couplers	Wireless
Standard Linear	Memory: type and density
Amplifiers	NAND Flash
Interface	NOR Flash
MOS Micro Logic	DRAM
MPU (Microprocessors)	SRAM

<b>ORDER FORM</b>				
<b>PROCUREMENT METRIC SERVICE</b>				
<b>SERVICE Includes:</b>				
Forecast By Device By Technology – Product Family or Specific Component				
Supply and Demand Issues				
Product Roadmaps – Current and Future Sweet Spots				
Topics Defined as Needed				
Quarterly Executive Briefings				
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## DRAM VOLATILE MEMORY PORTFOLIO

- **Understanding High Volume Memory Markets**
- **The Changing Nature of the Commodity DRAM Market**
- **Applications Inspiring New Technology**

### The Market

DRAM development has followed the path of “one size fits all” for the past several decades. However, the impact of the market consolidation and strategy differentiation of the memory manufacturers that began at the end of the last millennium is now creating new dynamics for memory manufacturers as well as high-volume memory users. At the same time, the combined output of DRAM and NAND memory bits is exceeding even the highest growth rates of the strongest years in DRAM production and revenue growth. How do memory manufacturers as well as OEMs address the degree of product differentiation and strategic diversity among the memory manufacturers is becoming more apparent.

The DRAM portfolio is compiled by industry analysts with actual experience in the memory industry. DRAM Market Analysis and Five-Year Forecasts Based On End-Use Market Consumption. Forecasts by:

- Type (SDRAM DDR, Etc.)
- Density (64M, 128M, 256M, Etc.)
- Organization (By 1, By 8, Etc.)
- DRAM Manufacturing Capacity
- Module Market Analysis
- End-Use Applications Analysis
- DRAM Market Shares

### Studies

#### **Four Quarterly Market Analysis Studies**

Updates on current issues impacting the market place and affecting technology are issued on a quarterly basis. Shipment numbers are reconciled to WSTS/SIA data. Five-year sales forecast (Units, Dollars and ASP) by type, by density, and by organization. Cost per Megabit and Megabit growth by memory density. Forecast assumptions and variances are included. Geographic trends and analysis by major end markets are updated quarterly.

#### **DRAM Capacity:**

A five-year forecast for DRAM manufacturing capacity. The fab capacity of all DRAM vendors is compared, with emphasis on the growth in 300mm

capacity. Impact on Flash and DRAM capacity relating to supply and demand issues. The total capacity is compared to Semico’s forecast of DRAM demand. This is the segment to watch carefully for OEMs, Equipment Manufacturers, Packaging and Test, System Designers and anyone who buys or sells DRAM.

#### **DRAM Modules:**

The majority of DRAMs are implemented as modules. Packaging matters. Market analysis and a five-year forecast for DRAM modules by type, density and application. High density drives the market.

#### **DRAM End Use Markets:**

Semico has always believed it is the end markets that drive the semiconductor markets. While the PC segment garners the most publicity, high-end servers and consumer mobile products are impacting the market and changing influence on technology and availability. The unit shipments and the average memory per OEM shipment that are the basis of Semico’s forecasts are also presented.

#### **Beyond the Five-Year Horizon:**

Out of the lab and into a product—an innovative look at application and technology innovations that will force evolutionary or disruptive change to the memory market. Analysis of the developing non-volatile memory types and a projection of their availability is included.

#### **Custom Research on Non-Volatile**

Special Research Available on non-volatile or combined semiconductor/end use segments Experienced and knowledgeable researchers in the memory group available to research and analyze the market, competitors, technology, and capacity issues.

**Selected Report Topics**

High Density Modules  
Market for DRAM Modules

Consumer, Communication, Computing  
Applications

DRAM Cost per Bit Rising?

Who Has Capacity?

What Type of Memory Will it Make

Will the Future Need DRAM?

Next-Generation Memories Loom on  
the Horizon

<b>ORDER FORM</b>				
<b>DRAM VOLATILE MEMORY PORTFOLIO</b>				
Portfolio Includes: Quarterly DRAM Updates Modules Outlook for Consumer, Key Products and New Markets Capacity				
Market Shares				
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## NON-VOLATILE MEMORY PORTFOLIO

### *NOR Flash and NAND Flash*

- **THE MEMORY MARKET**
- **NAND is the memory technology driver for some memory companies**
  - **Competition is increasing and ASPs are plummeting**
  - **Winners and losers in the non-volatile market**

## The Market

The nonvolatile memory market continues its drive to dominate the memory arena. NAND is implemented in rapidly expanding end products; NOR maintains and expands more gracefully. Mask ROM and EPROM are contracting, while EEPROM grows at a slow but steady pace.

Each of these technologies presents different opportunities and challenges to both OEMs and suppliers, not to mention investors and equipment manufacturers. Semico's Nonvolatile Memory Portfolio reveals the inner workings of these markets using a tested and proven methodology to demystify trends and to help our clients anticipate market turns.

## Studies

### **4 Quarterly NAND Market Analysis Studies:**

Five-year annual NAND forecast; two-year rolling quarterly forecasts plus the results of quarterly pricing surveys. View the major changes in the NAND marketplace from the previous quarter.

### **4 Quarterly NOR Market Analysis Studies:**

Five-year annual NOR forecast; two-year rolling quarterly forecasts including the results of quarterly pricing surveys. Trends and end market changes are addressed.

### **Market Analysis Studies Include:**

Detailed forecasts by density: Revenues, Unit shipments, ASPs, Megabyte shipments, and Price per NAND/NOR). Megabyte, and other data by technology (

### **Custom Research on Non-Volatile**

Special Research Available on non-volatile or combined semiconductor/end use segments Experienced and knowledgeable researchers in the memory group available to research and analyze the market, competitors, technology, and capacity issues.

### **Non-Volatile Memory Market Shares:**

Nonvolatile vendors ranked according to revenue market shares. Changes in non-volatile companies' products, new alliances, new manufacturing ventures and other issues that affect standing in the non-volatile market. Shares by non-volatile memory type.

### **Flash Card Market Analysis Study:**

This study analyzes the major flash card markets; ranks manufacturers' market shares, and forecasts the market by form factors, densities and technology migration.

### **USB Drive Study:**

This study forecasts USB Drive demand based on acceptance and attach rates of various applications derived from Semico's MAP model.

### **Applications that Matter:**

- Cell phone flash needs, now and in the future
- Digital Still Cameras
- Flash-based MP3 Players
- Digital Video Camcorders (CBCs)
- Computing
- GPS: handheld and automotive
- Portable game systems and PMPs

Where are these applications going and what impact will they have on the Flash market?

### **Beyond the Five-Year Horizon:**

Out of the lab and into a product. An innovative look at application and technology innovations that will force evolutionary or disruptive change to the non-volatile memory market. Analysis of the developing non-volatile memory types and when they might become available.



- ◆ Data
- ◆ Analysis
- ◆ Knowledge

**Selected Report Topics**

Keeping Up with Changes  
NAND and NOR Market Updates

Consumer Applications  
Where NAND Will Be Needed Most

The Future of Storage  
USB, Cards, SSD, Hybrid Drives

Will the Future Need NAND and NOR?  
Next-Generation Memories Loom on  
the Horizon

<b>ORDER FORM</b>				
<b>NON-VOLATILE MEMORY PORTFOLIO</b>				
Portfolio Includes: Quarterly NAND and NOR Updates Flash Cards USB Drives NAND in PCs: SSD versus Hybrid drives Outlook for Consumer, Key Products and New Markets Market Shares				
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# SEMICO

Research Corporation

- ◆ Data
- ◆ Analysis
- ◆ Knowledge

## *Design Starts, IP and SOC Portfolio*

### *Critical Aspects of this Market Segment:*

- Design starts as related to technology/product life cycles.
- End Market dynamics as they affect ASICs and SOC product
- Intellectual Property as a key enabler for future products

### **Design Starts, IP and SoC**

Custom is king in certain segments of the semiconductor market. This portfolio looks at the Application Specific IC market now and as it evolves. The market is being transformed. Customers have multiple choices for design, analog and memory content as related to end use markets.

Regional and End Market data is included with all of the studies. A very valuable BIG PICTURE perspective relating how and where the various ASIC methodologies fit is part of the portfolio.

## Studies

### **Programmable Logic Market Forecast and Analysis**

Identifies and forecasts the market for all programmable Logic (SPLD, CPLD and FPGA) by year through 2011 and by quarter through 2008 for revenues, units and ASP. **Available 1Q07.**

### **Standard Cell and Gate Array Market Forecast and Analysis**

Identifies and forecasts the market for Standard Cell and Gate Arrays by year through 2011 and by quarter through 2008 for revenues, units and ASP; including device types by region and end application segment. **Available 1Q07.**

### **Structured ASIC Market Forecast and Analysis**

Structured ASICs are a new category of semiconductor solution that emerged in 2002. This report identifies and forecasts the market for Structured ASICs by year through 2011 for revenues, units and ASP, by region and end application segment. **Available 1Q07.**

### **SoC Market**

Defines SoC revenues, markets, technology drivers and road maps, and market expectations. Changing roles of all players, compared with the traditional roles of systems companies or integrators. Also gives definitions for the different types of SoC and a roadmap of device evolution in the ASIC market.

### **3<sup>rd</sup> Party Semiconductor Intellectual Property Market**

This report identifies and forecasts the SIP market by major type (Star and Commodity) and by device type (ASSP, Value and Performance SoC, FPGA, Structured ASIC, Platform SoC and Programmable SoC). The report further explores the SIP market by major SIP category (Memory, CPU, DSP, Interface, etc.). Analysis of current market trends and SIP business models is explored along with the origins of the SIP market and its future direction.

### **ASIC Design Starts (two reports)**

Report I focuses on tracking the design starts for 60+ end applications by product type: Gate Array, Standard Cell, ASSP, Mixed Signal, Performance SoC, Value SoC, PLD, FPGA and Structured ASIC. A forecast is given for design starts and units by product type and by application through 2011. Report II focuses on analyzing this data by: process geometry, average gate count complexity per design, device type, by region and end market application category.

### **Embedded Memory Market**

Identifies and tracks the embedded memory content in 35 plus end applications for eDRAM, 1T and 6T eSRAM, all types of embedded Flash, eEEPROM, eEPROM, eROM, eFeRAM and eMRAM. Identified are the different memory types by density and process geometry for revenue and unit volumes through 2011. Includes where the memory is produced and the penetration rate of different embedded memory types into different end applications.

### **Issues Beyond the Five Year Horizon**

A discussion of the challenges and opportunities facing the Semiconductor Industry beyond 2011. How will new transistor architectures, materials and processes affect the competitive landscape at the beginning of the next decade? What new applications will surface to keep the silicon revenue engine revving to generate the profits required for the next level of investments in fab and process technology?

**The Report Topics**

- 3<sup>rd</sup> Party Semiconductor Intellectual Property Study: ***Starting to Realize Its Potential II***
- Trends in the SoC market: ***A Brave New World Revisited II***
- Embedded Memory: ***Lubricant for the Silicon Engine in the 21<sup>st</sup> Century II***
- Structured ASIC Market: ***Opportunities Abound***
- Programmable Logic Market Analysis: ***Mid-Course Correction in Market Growth***
- Standard Cell & Gate Array Market Analysis: ***Slower Growth Ahead***
- ASIC Design Starts I: ***By Key Applications***
- ASIC Design Starts II: An ***Industry in Transition Revisited II***
- Issues Beyond the Five Year Horizon: ***Challenges and Opportunities for the ASIC Industry***

<b>ORDER FORM</b>				
<b>DESIGN STARTS, IP AND SOC PORTFOLIO</b>				
Portfolio Includes: Design Starts and IP Issues and Drivers SoC Market Embedded Memory Outlook for Consumer, Key Products and New Markets Beyond the Five Year Horizon				
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## EXECUTIVE BRIEFS

➤ **THE Little Black Book of Information for the Semiconductor Intensive End Products**

### Executive Briefs

The Executive Briefs is a compilation of semiconductor intensive end-use product data designed for the busy executive. It is "the Little Black Book of Information with data-rich, concise, and to the point information. In 4 pages of tables and figures, Executives can quickly peruse and immediately understand the growth potential, semiconductor consumption, total available markets, key players, geographic data, key issues, and wafer demand for each of over 30 end-use markets.

### The High Level Market

Executive Briefs are available for the Consumer, Computer, Wired, and Wireless Communication end-use market segments. As the design cycle continues to shorten, and new end-use products are introduced every day. It is increasingly important for decision makers to have an understanding of the overall marketplace and the implications that these new products can have on their business. These Executive Briefs are ideal as an accurate, yet quick and concise overviews.

### The End Product Detail

#### Consumer, Communications, Computer

- ***OEM Sales Forecast***
- ***Key Semiconductor Markets***
- ***Semiconductor TAM***
- ***Top OEMs***
- ***Geographic Semiconductor Consumption***
  - ***Americas***
  - ***Europe***
  - ***Japan***
  - ***China***
  - ***Asia Pacific (rest of world)***
- ***Key Market Issues***
- ***Wafer Demand***
  - ***Demand by Technology Node***

### Discusses the Issues

The important topics are addressed for each of the end products. Current issues impacting the market place and affecting technology. Five-year sales forecast (Units, Dollars and ASP). Forecast assumptions and variances are included. Updates are available on a bi-yearly basis.

#### End Use Markets:

##### Consumer:

- Digital Cameras
- Digital Video Cameras
- Integrated DTV
- DTV Monitors
- DVDE Video Players
- DVD Video Recorders
- Portable Multimedia Players
- Set Top Boxes
- Video Game Consoles
- MP3 Players – HDD
- MP3 Players – Flash
- Satellite Radio
- Handheld Consoles

##### Communications

- Basic Cell Phone
- Mid-Range Cell Phone
- High-End Cell Phone
- Cellular Infrastructure
- WiMAX Base Station
- WiMAX CPE
- LAN Switches and Hubs
- Routers – Low end
- Routers – Mid to High End
- Cable Modems
- XDSL Modems
- VoIP PBX

##### Computing:

- Desktop PCs
- Notebook PCs
- Handhelds
- Entry Level Servers
- Mid-Range and High-End Servers
- Workstation
- Media Center PCs
- NAS Servers

### Custom Research on Selected Topics

Special research available on combined semiconductor/end use segments.

Experienced and knowledgeable researchers available to research and analyze the market, competitors, technology, manufacturing and capacity issues.

<b>ORDER FORM</b>				
<b>EXECUTIVE BRIEFS</b>				
BRIEFS Include:				
Semiconductor Bills of Materials				
End Product Market Forecasts				
Key Issues				
Semiconductor Consumption				
Semiconductor wafer requirements				
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## *Semico Select Portfolio*

*Semico Select puts together research to answer your questions:*  
**Component Information: Pricing/Roadmaps/Manufacturing Capacity**  
**End Products**  
**Manufacturing**  
**IPI**  
**Bills of Material**  
**Future Technology**  
**• Intellectual Property**

### ***Design Starts, IP and SoC***

Custom is king in some segments of the semiconductor market. This portfolio looks at the Application Specific IC market now and as it evolves. The market is being transformed. Customers have multiple choices for design, analog and memory content as related to end use markets.

Regional and End Market data is included with all of the studies. A very valuable BIG PICTURE perspective relating how and where the various ASIC methodologies fit is part of the portfolio.

### **Manufacturing Portfolio**

In a time of multi-billion dollar fab facilities and markets maturing in less than 5 years you need forecasts delivered by a third-party firm known throughout the world for its accuracy. The manufacturing business model has changed dramatically, have you kept up?

### **Executive Briefs**

The Executive Briefs is a compilation of semiconductor intensive end-use product data designed for the busy executive. It is "the Little Black Book of Information with data-rich, concise, and to the point information. In 4 pages of tables and figures, Executives can quickly peruse and immediately understand the growth potential, semiconductor consumption, total available markets, key players, geographic data, key issues, and wafer demand for each of over 30 end-use markets.

### **NonVolatile Memory**

The nonvolatile memory market continues its drive to dominate the memory arena. NAND is implemented in rapidly expanding end products; NOR maintains and expands more gracefully. Mask ROM and EPROM are contracting, while EEPROM grows at a slow but steady pace. Each of these technologies presents different opportunities and challenges to both OEMs and suppliers, not to mention investors and equipment manufacturers.

### **DRAM Memory**

DRAM development has followed the path of "one size fits all" for the past several decades. However, the impact of the market consolidation and strategy differentiation of the memory manufacturers that began at the end of the last millennium is now creating new dynamics for memory manufacturers as well as high-volume memory users. How do memory manufacturers as well as OEMs address the degree of product differentiation and strategic diversity among the memory manufacturers is becoming more apparent.

### **Procurement Service**

Production lines need assured supplies at predictable prices, but the semiconductor industry is a cyclical business. Semiconductor prices and availability swing rapidly in response to changes in supply and demand. Semico Research Corp. has developed a proven methodology for forecasting semiconductor prices and availability for up to eight rolling quarters. Information from the Semico Purchasing Metrics Service can help procurement keep production lines running with a steady supply of semiconductors purchased at the best contract pricing available

### **CORES, COPNROLLERS AND COMPETITION: *ONE PROCESSOR DOES NOT FIT ALL***

The processor is pervasive, a part of everything from sneakers to sophisticated black boxes. The market is being transformed. Old categories, such as MPUs, MCUs, DSPs or standard cell ASICs, are merging. Customers have multiple choices for embedded micrologic solutions. Semico's new Cores, Controllers and Competition Portfolio provides the information needed to understand this rapidly evolving market.

### **Issues Beyond the Five Year Horizon**

A discussion of the challenges and opportunities facing the Semiconductor Industry beyond 2011. How will new transistor architectures, materials and processes affect the competitive landscape at the beginning of the next decade? What new applications will surface to keep the silicon revenue engine revving to generate the profits required for the next level of investments in fab and process technology?

### **IPI**

Inflection Point Indicator to assist in forecasting semiconductor revenues approximately two quarters in advance. IPI – combined with our bill-of-materials, end-market analysis and primary research-has helped Semico Research accurately forecast the industry ahead of all other prognosticators.

### **Custom Research**

Experience counts when providing custom research. Semico offers the knowledge of experienced analysts from a variety of disciplines within the semiconductor industry. Semico provides primary research combined with the skill and understanding to make it useful.



- ◆ Data
- ◆ Analysis
- ◆ Knowledge

**Define your Own Report**

*Chose topics from each of the Portfolios to customize the information you receive  
Specify information you need and Semico will provide specific research*

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