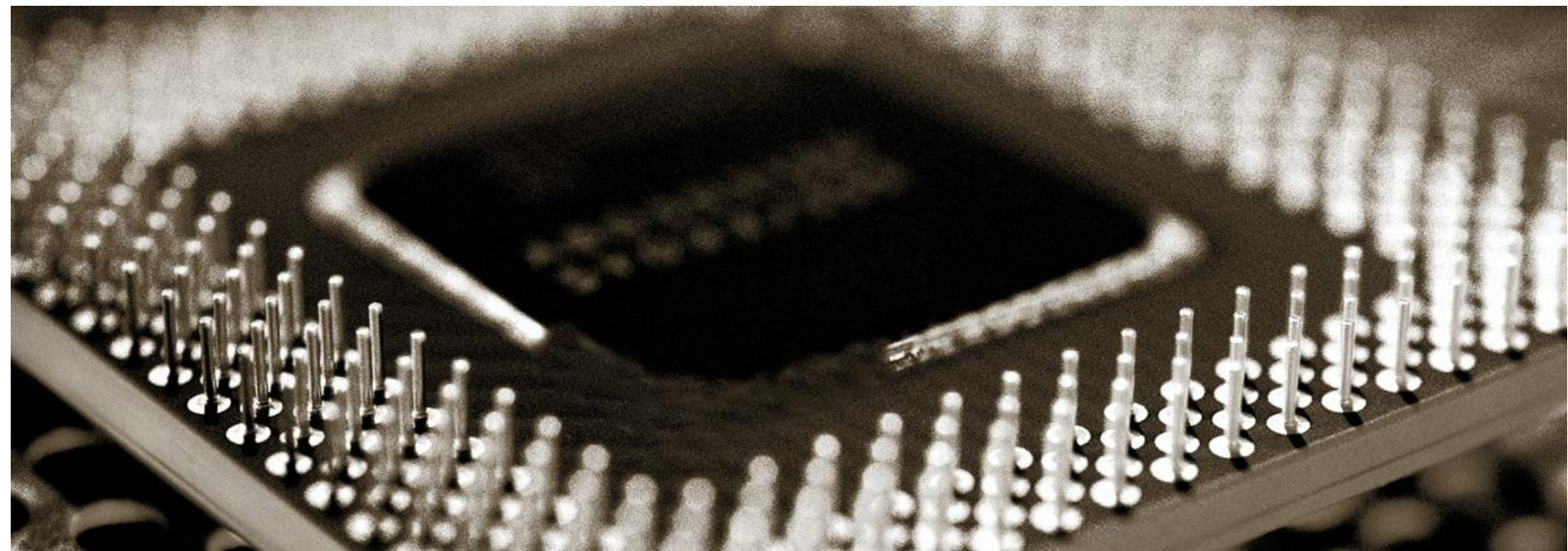




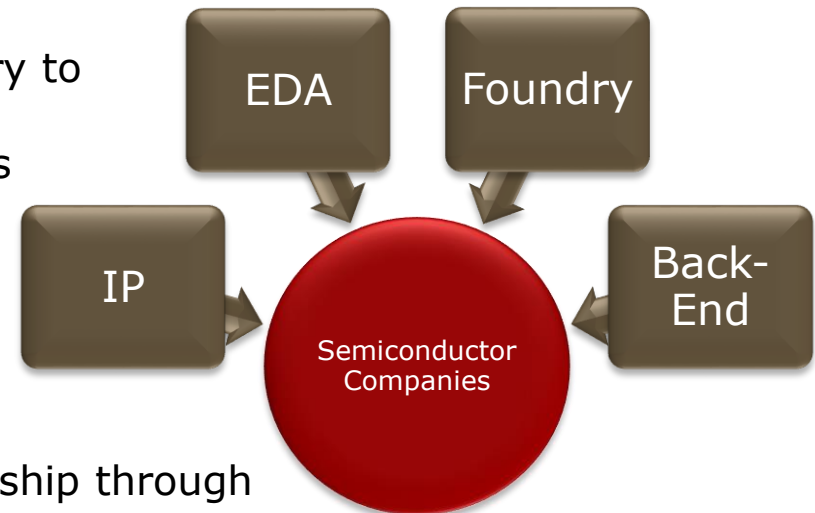
Global Semiconductor Alliance



GSA OVERVIEW

GSA members represent nearly 75% of the \$350B industry and boasts the broadest group of executive membership from the entire semiconductor ecosystem.

- GSA is the only organization that brings together the entire semiconductor ecosystem in order to represent industry-wide interests and thoughts.
- GSA provides a neutral environment for executives within the semiconductor industry to meet and collaborate on ways to improve efficiencies and address industry wide topics and concerns.
- GSA identifies and discusses emerging trends & opportunities, and how our membership can best participate and impact change.
- GSA encourages and supports entrepreneurship through various Leadership Councils, Working Groups and Resources.
- GSA promotes the visibility of our members and their contributions to our industry.
- Testimonials: <http://www.gsaglobal.org/gsa-membership/testimonials/>





GSA Success Model

Membership

GSA represents nearly 350 leading companies in 35 countries with 200 executives participating in a GSA leadership role

Groups, Councils, and Committees

GSA organizes multiple working groups, councils, round tables, and committees to discuss common issues and concerns as well as accelerate the adoption of specific technology and ideas

Events

GSA hosts the most widely recognized global and regional events tailored specifically for the semiconductor industry

Research

GSA provides numerous resources, surveys, and reports unique to GSA membership

The logo for the General Services Administration (GSA), featuring a red square on the left and the letters "GSA" in a stylized, bold, red font on the right.

Nearly 350 Member Companies

ADVANTEST

AMD

Amkor
Technology

ANALOG
DEVICES

ARM

The logo for ASE Group, featuring a stylized sun with a smiling face and rays.
ASE GROUP

cādence

APPLIED
MATERIALS

The Cisco logo, featuring a stylized bridge with seven vertical bars of varying heights.
CISCO

infineon

The logo for GlobalFoundries, featuring a stylized globe with a grid pattern.
GLOBALFOUNDRIES

IDT
Integrated Device Technology

intel

Micron

The logo for Microsemi, featuring a stylized, colorful circular shape.
Microsemi

MEDIA**TEK**

The logo for Marvell, featuring a stylized, geometric shape.
MARVELL

NXP

QORVO

QUALCOMM

Rambus

SAMSUNG

SK hynix

The logo for Skyworks, featuring a stylized, geometric shape.
SKYWORKS
BREAKTHROUGH SIMPLICITY

SYNOPSYS

TOSHIBA
Leading Innovation >>>

tsmc

UMC

WD

XILINX



Board and Council Groups

"GSA provides independent think-tanks where key decision makers bring their experience, problems, and perspectives, to discuss and debate" Dr. Tien Wu, ASE

GSA Board of
Directors
(elected)

CEO
Council
(appointed)

EMEA
Leadership
Council
(appointed)

APAC
Leadership
Council
(appointed)

- GSA's Board of Directors and Leadership Council's are designed to provide a private and non competitive environment that allows like executives to:
 - Discuss current and evolving trends that are impacting the direction of the industry
 - Initiate pre-competitive discussions surrounding business and technology
 - Explore possible areas of collaboration in common areas of interest



GSA Board of Directors

Chairman



Jodi Shelton
GSA



Dr. Leo Li
Spreadtrum

NA Regional Leadership Directors



Manish Bhatia
SanDisk



Cristiano Amon
QUALCOMM

AP Regional Leadership Directors



Dr. Leo Li
Spreadtrum



Dr. Nicky Lu
Etron Technology

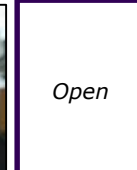


Young Sohn
Samsung Electronics

EMEA Regional Leadership Directors



Dr. Helmut Gassel
Infineon



Open

Japan Regional Leadership Directors



Dr. Yasuo Naruke
Toshiba Corporation



Akira Takata
MegaChips

Semiconductor Member Elected



Peter Gammel
Skyworks Solutions, Inc.



Dr. Sam Heidari
Quantenna Communications, Inc.



Dr. Lawrence Loh
MediaTek



Matt Murphy
Marvell



Andrew Pease
QuickLogic Corporation



Divyesh Shah
Broadcom Limited



Brian Shirley
Micron Technology Inc.



Dr. Lisa Su
AMD



Tyson Tuttle
Silicon Labs

Supplier Member Elected

Equipment



Omkaram (Om) Nalamasu
Applied Materials

Value-Chain Producer



Jack Harding
eSilicon

IP



Simon Segars
ARM

Back-End



Steve Kelley
Amkor Technology

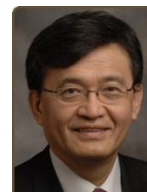


Dr. Tien Wu
ASE Group

EDA

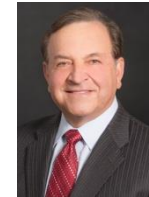


Dr. Aart de Geus
Synopsys



Lip-Bu Tan
Cadence Design Systems

Wafer Foundry



Dr. Bami Bastani
GLOBAL FOUNDRIES



Rick Cassidy
TSMC NA



Dr. Tzu Yin Chiu
SMIC



Tyson Tuttle
Silicon Labs



Eli Ayalon
DSP Group



Robert Bruggsworth
Qorvo, Inc.



Moshe Gavrielov
Xilinx, Inc.



Jen-Hsun Huang
NVIDIA



Dr. Sam Heidari
**Quantenna
Communications, Inc**



Dr. Leo Li
Spreadtrum



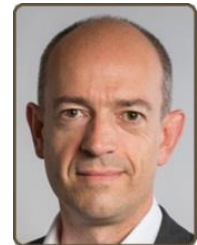
Dr. Nicky Lu
Etron Technology



Matt Murphy
Marvell



Steve Mollenkopf
QUALCOMM



Simon Segars
ARM



Dr. Lisa Su
AMD



Akira Takata
MegaChips



Dr. Maria Marced
TSMC Europe
GSA Chairwoman



Daniel Artusi
Intel Corporation



Dr. Jalal Bagherli
Dialog Semiconductor



Stan Boland
Bluprint Technologies, Inc.



Graham Budd
ARM



Guillaume d'Eyssautier
SureCore



Dr. Udo-Martin Gomez
Bosch Sensortec



Dr. Georges Karam
Sequans Communications



Pascal Langlois
Tronics



Svein-Egil Nielsen
Nordic Semiconductor ASA



Dr. Juergen Rebel
Infineon Technologies



Dr. Nicky Lu
Etron Technology



Dr. Dim-Lee Kwong
A*STAR Institute of Microelectronics



Dr. Chintay Shih
National Tsing Hua University



Xiaoning Qi
C-SKY Microsystems



Leopold Beer
Bosch Sensortec



WenChi Chen
VIA Technologies



Dr. Zhonghan Deng
Vimicro International



Gordon Gau
Holtek Semiconductor



Dr. Luke Hsieh
Richtek Technology



Dr. Genda Hu
FocalTech Systems



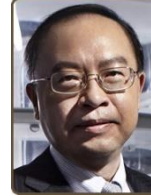
Dr. Jackson Hu
NeoEnergy Microelectronics



Dr. Youm Huh
Silicon Mitus



Dr. Tetsuya Iizuka
THine Electronics



Dr. Leo Li
Spreadtrum



Wayne Liang
MStar Semiconductor



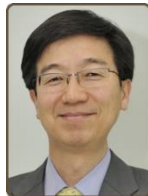
Hsiao-Ping Lin
M31 Technology



Dr. Qiang Liu
Ingenic Semiconductor



Dr. Chih-Yuan Lu
Macronix International



Dr. Sung-Wook Park
SK Hynix Inc.



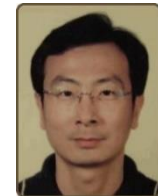
Dr. K.C. Shih
Global Mobile



Young K. Sohn
Samsung



Ming-Kai Tsai
MediaTek



Wilson Tzang
Faraday Technology



Qin-Sheng Wang
CSIA



Dr. Shaojun Wei
Tsing-Hua University



Jordan Wu
Himax Technology



Dr. Ping Wu
SummitView Capitol



Dr. Howard C. Yang
Montage Technology



Dr. Simon Yang
Yangtze Memory Technologies



Lidong Zhao
RDA Microelectronics



Dr. Charlie Zhi
Brite Semiconductor



Dr. Zhenyu Zhou
Actions Semiconductor



Technology Steering Committee

*"Ensuring that GSA focuses on the areas of interest
that are most important to our members"*

Jodi Shelton, President & Co- Founder GSA

- Vision
 - Encouraging the advancement and adoption of leading technology and practices for the betterment of GSA constituents
- Mission
 - Provide general oversight and guidance to GSA's working groups, committees, research, and events, as it pertains to key technological trends and their implications on the semiconductor ecosystem.
- Objectives
 - Ensure GSA's focus is aligned with the key technologies and practices that can have the most positive impact on its members
 - Accelerate industry adoption of the emerging technologies and practices that are most significant to GSA members
 - Support GSA's efforts to encourage and promote entrepreneurship by providing counsel and guidance to nascent start-ups
- Members
 - A cross section of senior technical leadership (VP Engineering/CTO) from GSA's core constituency

GSA provides its members with non-competitive, neutral forums for leading executives in the semiconductor ecosystem to discuss topical issues that affect the entire industry and explore resolution

- Congregation of like executives from the same discipline
- Designed to stimulate discussion and exchange ideas on subject matter uniquely specific to individual disciplines within the semiconductor industry
- Each discipline meets on a bi-annual to quarterly basis
- Roundtables may result in establishing a specific Panel, Forum, Working Group or Peer Advisory Committee



GSA provides various ways to enhance our members Corporate Marketing campaigns by providing increased exposure through our events, Web site, and periodicals

- Company Exposure
 - Member spotlight on GSA home page
 - Member spotlight in monthly GSA e-newsletter
 - Member news feed
- *GSA Forum* - Quarterly Magazine
 - Featured articles
 - Private Showing
 - Print advertising opportunities
- Event Sponsorship
 - Leverage leading global and regional events to that complements your marketing strategy and increases your companies visibility and brand exposure
- Event Participation
 - Numerous keynote speaking opportunities
 - Moderate or participate on a wide variety of panels
 - Host and/or participate in a Working Group meeting

GSA provides its members with opportunities to participate in content rich programs that focus on senior level involvement

- Address the evolving technologies and end markets that are most important to our members.
- Promote the global advancement of, and collaboration within the semiconductor industry
- Provide uniquely exclusive networking opportunities for global leaders within the semiconductor ecosystem
- Address key GSA initiatives and regionally specific topics



2017 Global Events

North America

[GSA Q1 Meet-Up](#)

Silicon Valley, CA
Wednesday, FEB 22

[GSA Silicon Summit \(Technology Conference\)](#)

Computer History Museum
Mtn. View, CA
Wednesday, JUN 14

[US Executive Forum \(Invitation-only\)](#)

Menlo Park, CA
Thursday, SEP 26

[Awards Dinner Celebration](#)

Silicon Valley, CA
Thursday, DEC 7

Council Meetings

San Jose, CA
Throughout the year

Technology Steering Committee

San Jose, CA
Throughout the year

CxO Roundtables

San Jose, CA
Throughout the year

GSA Meet-Ups

San Jose, CA
Throughout the year

EMEA

[GSA European Executive Forum](#)

Munich, Germany
Tuesday & Wednesday, APR 4 and 5

[GSA Entrepreneurship Conference](#)

London, United Kingdom
Tuesday, OCT 17

EMEA Dinner Series

Location: TBD
Date: TBD

EMEA Council Meetings

Regional rotation
Throughout the year

ASIA

[GSA Memory+ Conference](#)

Shanghai, China
Thursday, JUN 1

[Asia-Pacific Executive Forum](#)

Taipei, Taiwan
Wednesday, NOV 8

CEO Roundtables

Regional rotation
Throughout the year

A large, dark red arrow pointing horizontally from left to right, with the word 'Industry' centered in white text.

Industry

[Q1 Meet-Up: State of the Industry](#)

GSA provides an opportunity for our members to join quarterly Meet-Ups to address the technical and business challenges unique to the industry.

- Discuss common issues and concerns
- Utilize GSA's networking platform
- Increase efficiencies/solutions

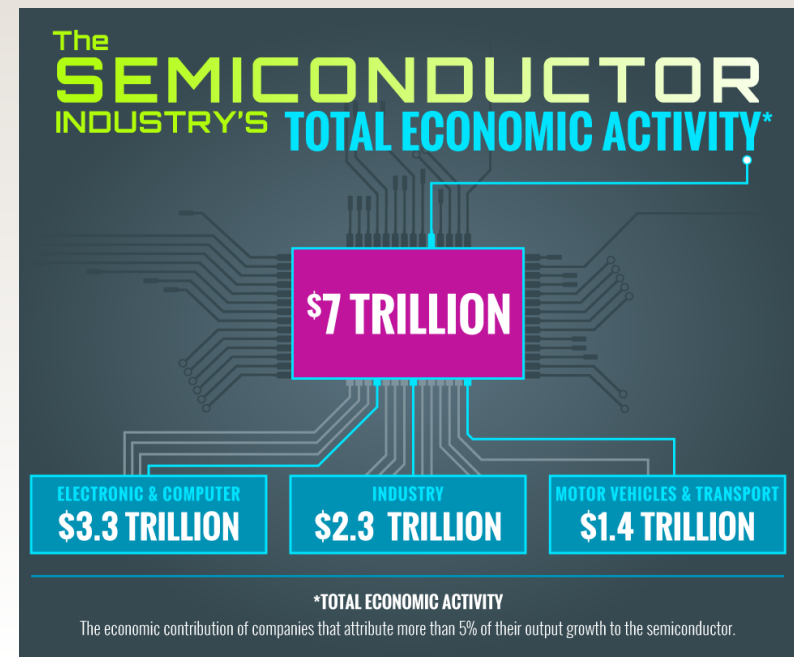
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Technology

SEMISMATTER.com

The goals of SemisMatter.com are to raise the profile of the semiconductor industry to increase general awareness amongst other business sectors, the media, students, and government, to enhance the image of the industry in order to promote interest and encourage STEM participation at all levels of the education system and to create a better understanding of the contribution of the industry to help influence policy makers, regulators, and investors.

- Features dozens of GSA Member contributed videos, articles and reports.
- Includes Students page with career testimonial videos and employment data.



GSA provides its members with...

- Comprehensive reports regarding industry issues and technology
- Business tools to improve efficiencies
- Financial analysis to enable semiconductor companies to track performance via industry peers, spot trends, and forecast market health
- Comprehensive directory and abstract for all known public and private semiconductor companies
- Quarterly and annual industry news magazines and resource guides

Financial Analysis

- Analysts' Industry Forecasts
- Quarterly Economic Review by Dan Niles
- Financial Tracker
- GSA Market Watch

Reports & Surveys

- CEO Sentiment Index
- Wafer Fabrication & Back-End Pricing Reports

Directories & Publications

- Semiconductor
- Supplier & Service Partner
- *GSA Forum*
- IC Foundry Almanac
- 3D IC Tour Guide
- IoT Report

Tools

- A/MS Checklists
- IP Source Selection Tool
- IP ROI Calculator
- 3DIC Packaging Best Practices
- Supply Chain M&A Due Diligence

Dan Niles, Chief Investment Officer at Alpha One Capital Partners, has partnered with GSA since 2009 to provide a series of webcast sessions that allow our most important global CEOs, CFOs and other executives to monitor the industry's position in the cycle.

Each quarter he provides updates on his economic outlook for the technology industry, providing a number of issues affecting the semiconductor market and where we are in terms of a cycle. Each webcast covers the following:

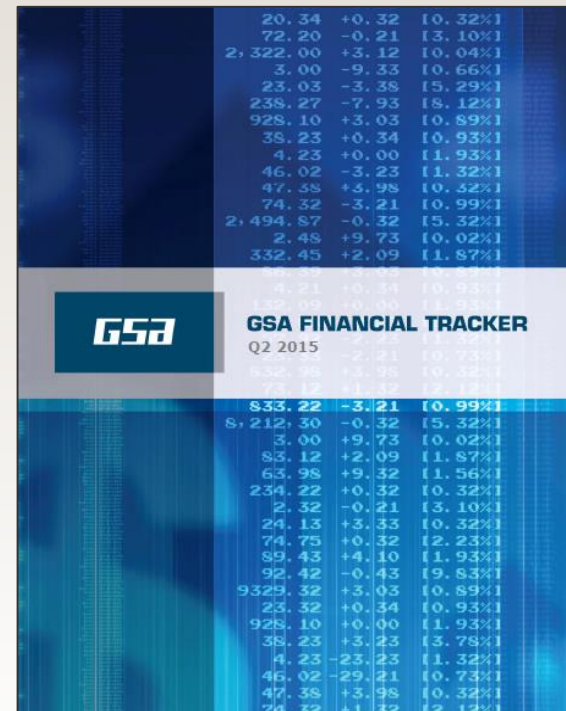
- Trends in U.S. unemployment, home sales/ownership, retail sales, personal savings, GDP growth, industrial production, money supply, etc.
- Monthly Semiconductor Industry Sales
- Total Semiconductor Revenue vs. Total Capital Expenditure % Growth
- Predictions for the following quarter and overall year



TRACKS MORE THAN 6,000 DATA POINTS FOR 260+ COMPANIES

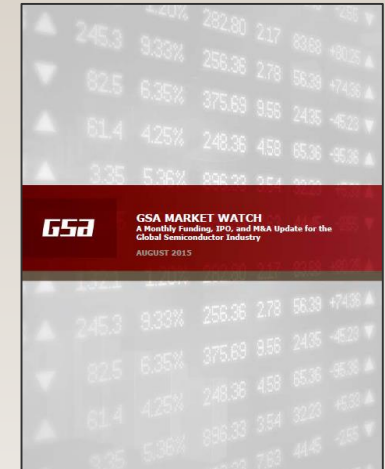
This quarterly downloadable Excel spreadsheet and executive summary includes over 6,000 financial data points, such as revenue, net income and market capitalization, for more than 260 semiconductor companies (fabless and IDM).

- Tracks 35 different financial metrics for every publicly traded semiconductor company on a quarterly basis
- 29 different avenues of data sort capabilities.
- Included in GSA membership
- Available to all GSA member company employees.



Company	Revenue	Net Income	Market Cap
20.34	+0.32	10.32%	
72.20	-0.21	13.10%	
2,322.00	+3.12	10.04%	
3.00	-9.33	10.66%	
23.03	-3.38	15.29%	
238.27	-7.93	18.12%	
928.10	+3.03	10.89%	
38.23	+0.34	10.93%	
4.23	+0.00	11.93%	
46.02	-3.23	11.32%	
47.38	+3.98	10.32%	
74.32	-3.21	10.99%	
2,494.87	-0.32	15.32%	
2.48	+9.73	10.02%	
332.45	+2.09	11.87%	
4.21	+0.34	10.93%	
833.22	-3.21	10.99%	
8,212.30	-0.32	15.32%	
3.00	+9.73	10.02%	
83.12	+2.09	11.87%	
63.98	+9.32	11.56%	
234.22	+0.32	10.32%	
2.32	-0.21	13.10%	
24.13	+3.33	10.32%	
74.75	+0.32	12.23%	
89.43	+4.10	11.93%	
92.42	-0.43	19.83%	
9329.32	+3.03	10.89%	
23.32	+0.34	10.93%	
928.10	+0.00	11.93%	
38.23	+3.23	13.78%	
4.23	-23.23	11.32%	
46.02	-29.21	10.73%	
47.38	+3.98	10.32%	
74.32	+1.32	12.12%	

GSA provides the industry with timely data on **semiconductor investment activity** in the private and public sector and releases a **quarterly** update and a downloadable, sort-able Excel spreadsheet of all **funding, initial public offering (IPO), and merger and acquisition (M&A) activity** for fabless companies, IDMs and semiconductor suppliers.



Semiconductor Funding sortable by:

- Date
- Company
- Company Type
- Location
- Amount Raised
- Round
- Investors

Semiconductor IPOs sortable by:

- Date Priced/Filed
- Company
- Location
- Amount Priced/Price Range
- Shares Offered
- Underwriters
- Stock Exchange
- Ticker
- Annual Revenue

Semiconductor M&As sortable by:

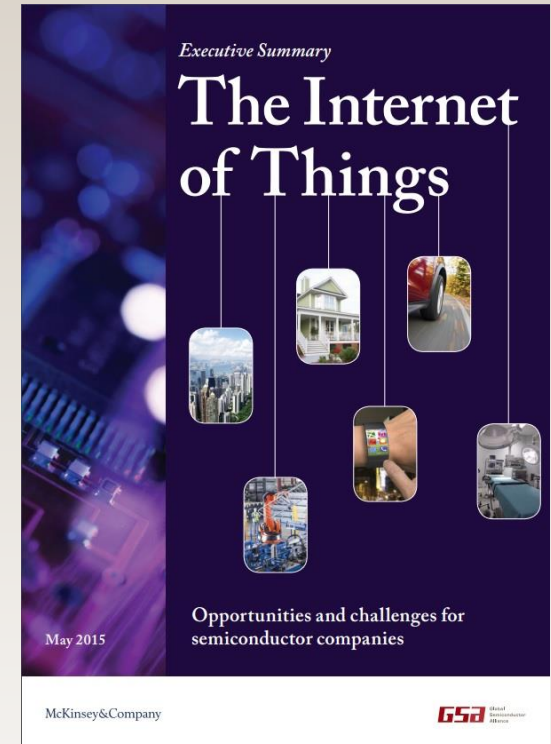
- Type of Entity Acquired - Entire Company, Company Division/Product Line or Foundry Facility
- Announcement Date
- Acquirer
- Entity Acquired/Merged
- Amount Paid
- Payment Type

Internet of Things

McKinsey & Company and the Global Semiconductor Alliance (GSA) recently collaborated to understand the implications of the Internet of Things (IOT) for the semiconductor industry and the economy as a whole. This effort was overseen by a steering committee of 11 senior executives from GSA member companies and McKinsey. It involved the following methods:

- Interviewing 30 GSA members who were senior executives at semiconductor companies or at companies in adjacent industries that are part of the IOT ecosystem, such as network equipment and industrial automation
- Surveying 229 semiconductor executives at GSA member companies
- Assembling a fact base on the IOT, focusing on issues relevant to semiconductor companies.

Among other insights, we found that semiconductor companies are well positioned to help the IOT gain momentum, despite the obstacles ahead, provided that they embrace innovation and rethink their traditional business model.

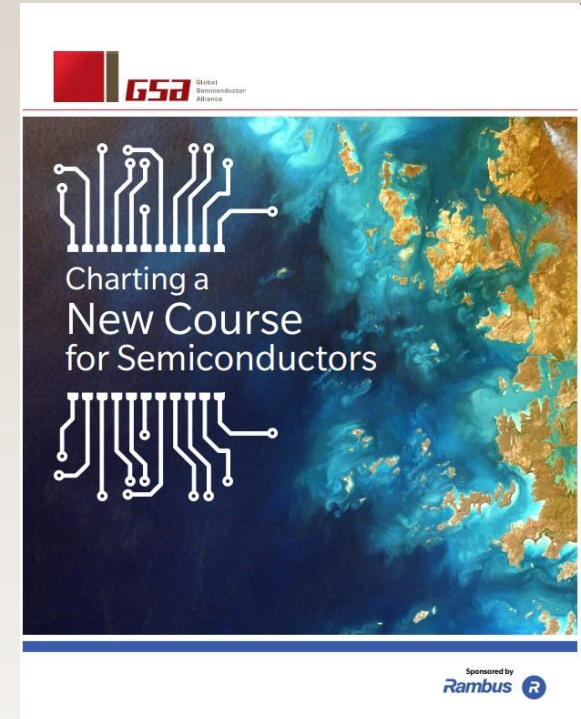


<http://www.gsaglobal.org/gsa-resources/publications/internet-of-things-report/>

Charting a New Course for Semiconductors

Rambus and the Global Semiconductor Alliance (GSA) recently collaborated to explore the current market dynamics in the semiconductor industry. With numerous reports illustrating the slowing in sales and profits, companies have begun consolidating and re-shifting priorities and strategies. As we look at the future of the market, this report identifies several key factors and paths to monetization that will help shape our industry going forward.

With this report, there is great opportunity for the industry to come together to discuss and evaluate how each company can play an open, collaborative role in helping to chart a more sustainable course for the industry and beyond.



<http://www.gsaglobal.org/gsa-resources/publications/charting-a-new-course-for-semiconductors/>

The **Wafer Fabrication Pricing Report** provides the user thousands of price data points for wafer and mask sets, from fabless semiconductor companies, and integrated device manufacturers (IDMs). The data is collected confidentially and tabulated in aggregate by an audit firm using a weighted industry average approach.

The Wafer Fabrication Pricing Report includes a written analysis of the survey results as well as interactive, online results showing rolling average, min, max, and median wafer and mask set prices for four consecutive quarters by:

- Process Geometry
- Process
- Wafer Size
- Company Type
- Foundry Location
- Metal Layers
- Poly Layers
- Mask Layers
- Epitaxial
- Development Stage
- Volume of Wafers Purchased
- Pricing by Leading Revenue-Producing Fabless Companies

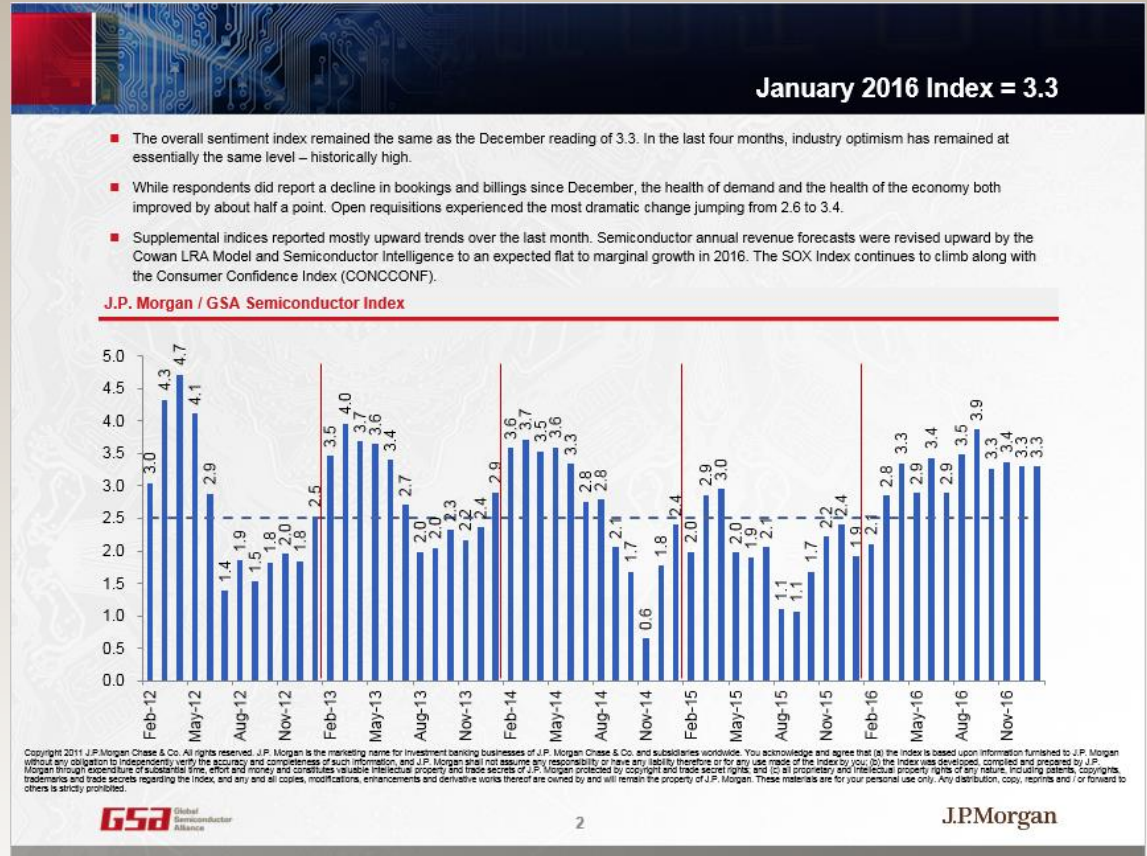
The **Assembly Pricing Report** is available as a stand-alone report or as a section to the Wafer Fabrication Pricing Report. This Report provides the user thousands of price data points that fabless and IDMs are paying for outsourced assembly services. The data is collected confidentially and tabulated in aggregate by an audit firm.

The Assembly Pricing Report includes a written analysis of the survey results as well as interactive, online results showing rolling average, min, max, and median assembly prices for four consecutive quarters by:

- Company Type
- Manufacturing Location
- Package Family
- Leads
- Units Per Week
- Drop-In Heat Spreader Used
- Substrate Cost
- Substrate Technology
- Substrate Layers
- Wafer Size (for WLP only)

Participants receive the report(s) for free. The interactive reports are available to subscribers online, allowing users to easily and quickly find the exact pricing information needed.

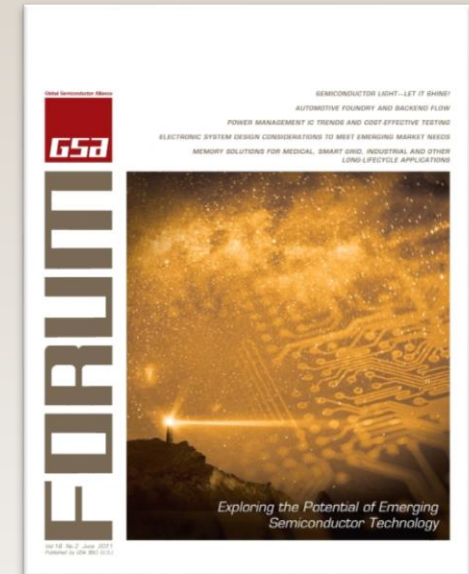
- Monthly survey gauging the temperature of the industry. Index began in January 2009 and closely mirrors overall industry sentiment.
- Survey consists of 10 ten multiple-choice questions which are sent via e-mail during the last week of each month. *Total survey takes roughly 1 minute to complete.*
- Only participating CEOs and CFOs will have access to the results each month. All data collected is kept strictly confidential and results will be released only in aggregate numbers.
- As a further safeguard and for your convenience, the data will be collected via a secure Web site.



The industry's premier publication delivers a combination of business, technology and financial news, as well as important industry trends and market forces that impact operations and product development throughout the semiconductor supply chain.

Each quarterly issue contains:

- **Featured Articles** — contributed articles by industry experts on various technical- and business-related topics
- **Private Showing** — featured private semiconductor member companies
- **GSA Forum Archives**



www.gsaglobal.org/forums

GSA and IC Insights have collaborated to produce a comprehensive guide to the global IC foundry market. This resource combines IC Insights' analysis of market growth and capacity trends with GSA's wafer pricing trends, comprehensive company tracking information and its global reach across semiconductor companies and the foundry sector.

Report includes a foundry-segment analysis, five-year forecasts, wafer-pricing trends from outsourcing semiconductor suppliers and supplier-profile data.

IC Foundry Analysis

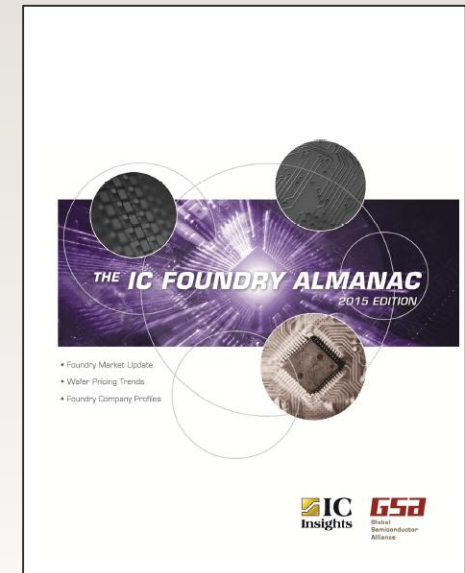
- IC Foundry Industry Analysis
- IC Foundry Sales Analysis
- IC Foundry Capacity

Wafer Fabrication Pricing & Mask Cost Trends

- Average and median wafer pricing and mask cost by:
 - 150mm, 200mm, 300mm wafers
 - Manufacturing process
 - Process geometry
 - Metal layers
 - Poly layers
 - Development stage
 - Epitaxial
 - Volume purchased

IC Foundry Service Provider Company Profiles

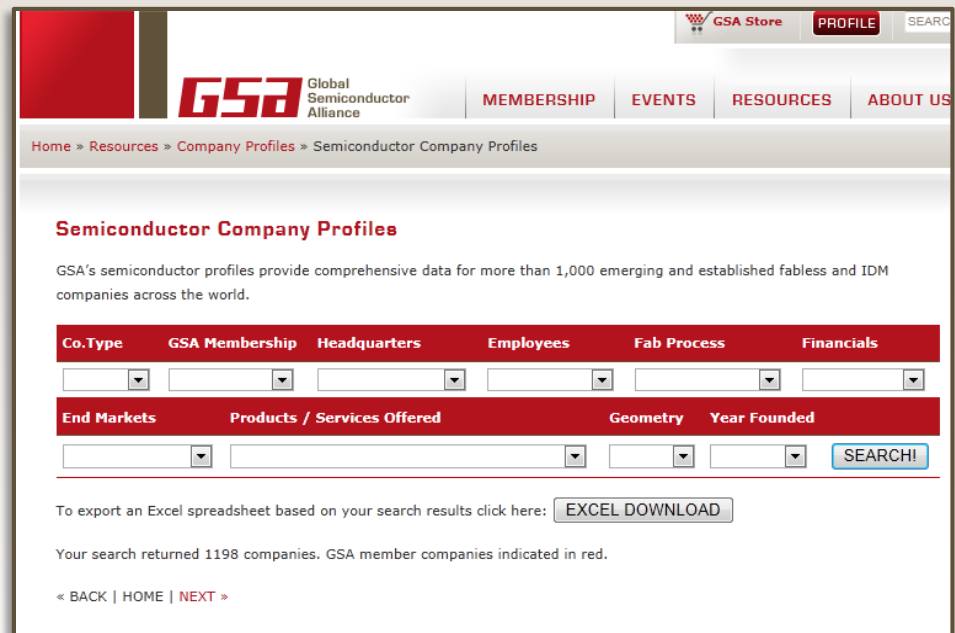
- Company Contact Information
- Percent Manufacturing Capability
- Technologies Offered
- Geometries
- Metal Layers
- Wafer Sizes
- Wafer Output per Month
- Design Services Offered
- Back-end Services Offered
- IP Cores Offered
- Customers and Partners



This directory contains comprehensive profiles of more than 1,000 emerging and established fabless and IDM semiconductor companies worldwide. Profiles include a company description, the company's market and product detail, industry type, and key management

Online sorting features and downloadable excel spreadsheet include:

- Year Founded and Number of Employees
- Financial Detail
- Company Description
- Industry Type
- Market Type
- Product Detail
- Key Management

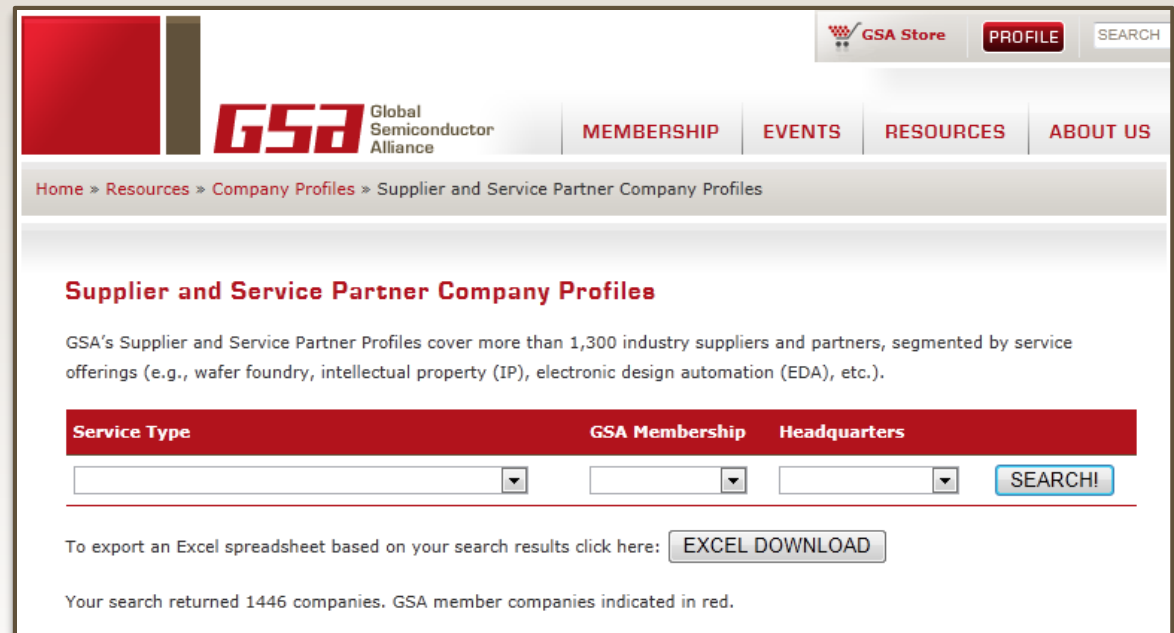


The screenshot shows the GSA Global Semiconductor Alliance website. The page title is "Semiconductor Company Profiles". It features a search bar and a navigation menu with options like "MEMBERSHIP", "EVENTS", "RESOURCES", and "ABOUT US". Below the navigation, there is a breadcrumb trail: "Home > Resources > Company Profiles > Semiconductor Company Profiles". The main content area has a heading "Semiconductor Company Profiles" and a sub-heading "GSA's semiconductor profiles provide comprehensive data for more than 1,000 emerging and established fabless and IDM companies across the world." Below this, there is a search filter interface with two rows of dropdown menus. The first row includes filters for "Co.Type", "GSA Membership", "Headquarters", "Employees", "Fab Process", and "Financials". The second row includes filters for "End Markets", "Products / Services Offered", "Geometry", and "Year Founded". A "SEARCH!" button is located to the right of the second row. Below the search filters, there is an "EXCEL DOWNLOAD" button and a message stating "Your search returned 1198 companies. GSA member companies indicated in red." At the bottom, there are navigation links: "< BACK | HOME | NEXT >".

GSA's Supplier and Service Partner Profiles cover more than 1,300 industry suppliers and partners, segmented by service offerings (e.g., wafer foundry, intellectual property (IP), electronic design automation (EDA), etc.). Profiles include Year Founded and number of employees, company description, service offerings and key management.

Sort by:

- Year Founded & Number of Employees
- Company Description
- Service Offerings
- Key Management



The screenshot shows the GSA website interface for the 'Supplier and Service Partner Company Profiles' page. The header includes the GSA logo (Global Semiconductor Alliance) and navigation links for MEMBERSHIP, EVENTS, RESOURCES, and ABOUT US. A search bar is located in the top right corner. The main content area features a breadcrumb trail: Home » Resources » Company Profiles » Supplier and Service Partner Company Profiles. Below this, the title 'Supplier and Service Partner Company Profiles' is displayed, followed by a descriptive paragraph. A search filter section contains three dropdown menus labeled 'Service Type', 'GSA Membership', and 'Headquarters', along with a 'SEARCH!' button. Below the search filters, there is an 'EXCEL DOWNLOAD' button and a message stating 'Your search returned 1446 companies. GSA member companies indicated in red.'

AMS PDK Quality Checklist & User's Guide

This checklist provides the analog / mixed signal designer a quality check on all elements of the foundry Process Design Kit. This drives enhanced communication between foundries and design teams, allowing both to obtain a better understanding of the source data, completeness and quality of the PDK. The checklist addresses everything from contact information to document version control, including software release numbers.

Intellectual Property (IP) Source Selection Tool

IP blocks are a standard part of most designs. IP can be acquired from multiple sources: Internal Design, Internal Existing, or from a Third Party. Whatever the source, there are inherent risks. This tool allows the team to analyze Risk, Performance, and Cost; and thereby mitigate the risk.

Supply Chain Merger & Acquisition Due Diligence and Integration Checklist

This checklist defines a broad spectrum of items that must be considered by Supply Chain management in a merger or acquisition. This initial release is targeted toward the Supply Chain Professional and is not yet all encompassing. Future work will extend the checklist to include Legal, Financial, Human Resources, and IT aspects.

Quality Monitors Checklist

This checklist provides the quality framework for semiconductor testing before product is shipped. Defines tests and parameters required to minimize the level of bad product shipped to an end customer.

This is not meant to be a comprehensive list, but can be useful to:

- Analyze gaps in testing
- Provide the top 3-5 test areas for each line of defense against shipping low quality product
- Improve Customer Awareness, by providing a guideline for customers to better understand the test environment

Exposure

- GSA hosts the largest cross section of executives from the semiconductor ecosystem
- Speaking engagements at targeted forums and events
- Exchange ideas and network with the global leaders of the semiconductor community

Discussion

- Commercial and technical trends in the semiconductor & technology industries
- Challenges and issues unique to the semiconductor industry

Resources

- Public and Investor Relations Services
- Resource Portals
- Leadership, technology interest groups, and committees
- Forums and events
- Research: public & private financial analysis, reports, surveys, profiles



General Membership

Annual Revenue	\$0M - \$20M	\$20M - \$50M	\$50M - \$100M	\$100M - \$500M	> \$500M
Annual Dues	\$5.5K	\$10K	\$15K	\$20K	\$25K

General Membership is available to all semiconductor manufacturers and suppliers, including: Fabless, IDM, IP, EDA, Foundry, Packaging and Test, and Design Services. Dues are based on the company's annual revenue.

Partner Alliance

GSA's Partner Alliance is available to all companies that support GSA's overall goals and mission by providing products and services that enable an environment for growth of the global semiconductor industry.

- **Industry Partner**
Available to all technology companies outside of the semiconductor ecosystem such as OEMs, ODMs, and internet companies. Annual dues are USD \$7,500.
- **Service Partner**
Available to all companies who provide services to semiconductor companies including venture capital companies, investment banks, consulting/research, law firms, executive search groups, and insurance companies. Annual dues are USD \$5,500.
- **Organizations, Associations, Government, Educational Partners and PIA**
Available to organizations, associations, government entities, educational institutions, and publications/industry analysts. Annual dues are USD \$3,500.