

Semiconductor Silicon Demand Forecast Tool

Part of the Semiconductor Manufacturing Service Area Package

A long-term view of silicon demand by both technology and wafers size. The methodology used in developing these silicon forecasts uses the identified market sizing revenue for over 180 applications within the 6 key semiconductor market segments.

“ Semiconductor demand will be driven by wireless, data center, automotive and industrial applications. Devices that are driving growth within industrial and automotive market segments use more mature 200mm technology, as well as more legacy manufacturing flows, whereas devices driving growth in wireless and data center will be 300mm advanced technology. ”

Chris Welch
Principal Analyst

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HOW OMDIA HELPS YOU

- Size the markets for semiconductor silicon
- Identify market sizing revenue for over 180 applications within the 6 key semiconductor market segments
- Identify multiple market models to investigate the technology required as well as the wafer sizes in demand
- Leverage forecasts to better understand this segment and your customers

KEY QUESTIONS ADDRESSED

- How much silicon will be required to support 300 mm manufacturing operations?
- How much silicon will be used for mature technologies?
- As the industry goes through its cycles of rapid growth followed by periods of slowing, what applications will continue to demand increased silicon capacity?
- What will the impact of technology transitions be for silicon manufacturers?
- What market applications are driving silicon consumption?
- What will be the impact of technology transitions for the equipment and material suppliers?

Semiconductor Manufacturing: Our Expert Analysts



Chris Welch
Principal Analyst



Simon Chen
Principal Analyst

Market Tracker

Semiconductor Silicon Demand Forecast Tool

A subscription to this service, which is updated quarterly, includes market size and forecast database delivered in Excel and easy-to-use online tool and market analysis and trends report in PDF

DETAILS

Frequency:

- Annual: 5-year forecasts
- Historical data from 2000
- Updated quarterly

Measurements

- Revenue
- Shipment
- Capital (top-8 suppliers)
- Capacity (top-8 suppliers)

Detail Level

- Geometry
- Wafer Size
- Market
- Submarket
- Component
- Device
- SubDevice

COVERAGE

TECHNOLOGIES COVERED

- Discrete
- Logic
- Memory
- Analog
- Micro component
- Sensors & actuators

EQUIPMENT COVERED

- 90+ applications within the major application markets of:
- Automotive Electronics
 - Consumer Electronics
 - Data Processing
 - Industrial Electronics
 - Wired Communications
 - Wireless Communication

APPLICABLE TO

Strategic Manufacturing Managers

- Managers in charge of expanding capacity for IDM's and foundries
- Managers responsible for purchasing equipment for IDM's and foundries
- Controllers forecasting capital expenditures
- Planners determining if wafer technology transitions will obsolete mature wafer sizes

Material Suppliers

Equipment Manufacturers

MEASURES

Wafers

- 4-inch
- 5-inch
- 6-inch
- 8-inch
- 12-inch

Technology

- 0.014 micron
- 0.020 micron
- 0.022 micron
- 0.032 micron
- 0.040 micron
- 0.045 micron
- 0.065 micron
- 0.08 micron
- 0.09 micron
- 0.11 micron
- 0.13 micron
- 0.15 micron
- 0.18 micron
- 0.25 micron
- 0.35 micron
- >=0.50 micron

Related Content: Semiconductor Manufacturing Service Area Coverage



Service Area Package: **Semiconductor Manufacturing**

Global Semiconductor Manufacturing
Market Tracker

Pure Play Foundry
Market Tracker

Semiconductor Silicon Demand
Forecast Tool

About Omdia's Semiconductor Manufacturing Research

World-class coverage of the Global Manufacturing suppliers. Omdia covers the entire manufacturing supply chain from raw material shipments into the semiconductor fabrication companies (Integrated Device Manufacturers & Pure Play Foundries) and provides in-depth analysis of the component manufacturers capabilities.

Omdia provides analysis of supply chain inventory and its impact on short-term manufacturing as well as capital expenditure analysis for long-term strategic equipment capacity planning.

Related Content: Semiconductor Service Area Coverage

SERVICE AREA PACKAGE			
Memory & Storage	Semiconductor Components	Semiconductor Manufacturing	Semiconductor Market
<ul style="list-style-type: none"> • DRAM Memory Intelligence Service • Mobile & Embedded Memory Intelligence Service • NAND Memory Intelligence Service • SSD & HDD Storage Memory Intelligence Service 	<ul style="list-style-type: none"> • Key Mobile Component Price Intelligence Service • LED Intelligence Service • Magnetic Sensors Report - 2019 • MEMS & Sensors for Consumer & Mobile Intelligence Service • MEMS & Sensors Intelligence Service • Microcontroller Market Tracker • Optoelectronic Components Report - 2020 • Power Semiconductor Intelligence Service • Processors for Graphics & Artificial Intelligence Market Tracker • Processors for Network Infrastructure Market Tracker • Processors Spotlight Service • System-on-Chip (SoC) Market Tracker 	<ul style="list-style-type: none"> • Global Semiconductor Manufacturing Market Tracker • Pure Play Foundry Market Tracker • Semiconductor Silicon Demand Forecast Tool 	<ul style="list-style-type: none"> • China Semiconductor Intelligence Service • Design Activity Tool • Industrial Semiconductor Intelligence Service • OEM Semiconductor Spend Tracker • OEM Semiconductor Spending & Design Activity Intelligence Service • Semiconductor Application Forecast AMFT Spotlight Service • Semiconductor Competitive Landscape CLT Spotlight Service • Semiconductor Forecast Scenario Tool

Our “Ask an Analyst” Service Provides Best in Class Customer Support

Whether you need guidance to navigate the service, information regarding our methodologies or you want to better understand a data trend, Omdia’s support team is here to help.

Draw on our expertise

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ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio*. We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies.

Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today's constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

* The majority of Omdia technology research products and solutions were acquired by Informa in August 2019 and are now part of Omdia.