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
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)

**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
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.
## SERVICE AREA PACKAGE

<table>
<thead>
<tr>
<th>Memory &amp; Storage</th>
<th>Semiconductor Components</th>
<th>Semiconductor Manufacturing</th>
<th>Semiconductor Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>• DRAM Memory Intelligence Service</td>
<td>• Key Mobile Component Price Intelligence Service&lt;br&gt; • LED Intelligence Service&lt;br&gt; • Magnetic Sensors Report - 2019&lt;br&gt; • MEMS &amp; Sensors for Consumer &amp; Mobile Intelligence Service&lt;br&gt; • MEMS &amp; Sensors Intelligence Service&lt;br&gt; • Microcontroller Market Tracker&lt;br&gt; • Optoelectronic Components Report - 2020&lt;br&gt; • Power Semiconductor Intelligence Service&lt;br&gt; • Processors for Graphics &amp; Artificial Intelligence Market Tracker&lt;br&gt; • Processors for Network Infrastructure Market Tracker&lt;br&gt; • Processors Spotlight Service&lt;br&gt; • System-on-Chip (SoC) Market Tracker</td>
<td>• Global Semiconductor Manufacturing Market Tracker&lt;br&gt; • Pure Play Foundry Market Tracker&lt;br&gt; • Semiconductor Silicon Demand Forecast Tool</td>
<td>• China Semiconductor Intelligence Service&lt;br&gt; • Design Activity Tool&lt;br&gt; • Industrial Semiconductor Intelligence Service&lt;br&gt; • OEM Semiconductor Spend Tracker&lt;br&gt; • OEM Semiconductor Spending &amp; Design Activity Intelligence Service&lt;br&gt; • Semiconductor Application Forecast AMFT Spotlight Service&lt;br&gt; • Semiconductor Competitive Landscape CLT Spotlight Service&lt;br&gt; • Semiconductor Forecast Scenario Tool</td>
</tr>
</tbody>
</table>
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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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- Get the most out of your subscription
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- **Tom Coate**
  Customer Success Manager

- **Kāren Dyer**
  Customer Success Manager

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