Processors for Graphics & Artificial Intelligence Market Tracker

Part of the Semiconductor Components Service Area Package
An examination of the markets for processors targeting graphics, vision and AI acceleration functions

"Processor classes are specifically targeting graphics and AI, microprocessors with graphics and/or AI, microcontrollers with graphics and/or AI, graphics processors with or without AI, system-on-chip and the emergence of AI-specific processors – ASIC and ASSP."

Kelson Astley
Senior Research Analyst
Processors for Graphics & Artificial Intelligence Market Tracker

Part of the Semiconductor Components Service Area Package

HOW OMDIA HELPS YOU

• Understand major trends and high-growth industry sectors

KEY QUESTIONS ADDRESSED

• What are other applications for graphics, and are there alternatives to GPUs?

• What are the opportunities and pitfalls of using AI?

• On what type of processors is AI training being done, and what is needed for inferencing and deep learning?

• What is the market outlook in 5 years?

Market Revenue for Processors with Graphics or AI Integration by Vertical

Source: Omdia
© 2021 Omdia

Processors for Graphics & Artificial Intelligence Market Tracker | MSCD-101177
Semiconductor Components: Our Expert Analysts

Noman Akhtar
Senior Research Analyst

Kelson Astley
Senior Research Analyst

Christopher Morris
Senior Research Analyst

Paul Pickering
Senior Research Analyst

Richard Eden
Principal Analyst

Manuel Tagliavini
Principal Analyst

Chee-Seng Tan
Research Analyst

Jawad Tariq
Research Analyst
Market Tracker

Processors for Graphics & Artificial Intelligence Market Tracker

An examination of the markets for processors targeting graphics, vision and AI acceleration functions.

DETAILS

Frequency, time period
• Semi-annual update
• 4-years historical
• 5-years annual forecast

Measures
• Revenues
• Units
• Growth rate
• Average selling price
• Supplier market shares

COVERAGE

Processor classes
• Microprocessors with graphics and/or AI
• Microcontrollers with graphics and/or AI
• Graphics processors with or without AI
• System-on-Chip and the emergence of AI-specific processors (ASIC and ASSP)

Vertical markets
• Automotive electronics
• Industrial electronics
• Compute and data storage
• Consumer electronics
• Wired communications
• Wireless communications
• 70 total applications
Table of Content

Summary Tables
- Class Revenue Summary
- Class Unit Shipment Summary
- Market Revenue Summary
- Unit Shipment Summary - Route to market

Market Specific Tables
- Class Revenue for Automotive Electronics
- Class Unit Shipments for Automotive Electronics
- Applications Revenue for Automotive Electronics
- Applications Unit Shipments for Automotive Electronics
- Class Revenue for Computing & Data Storage
- Class Unit Shipments for Computing & Data Storage
- Applications Revenue for Computing & Data Storage
- Applications Unit Shipments for Computing & Data Storage
- Class Revenue for Consumer Electronics
- Class Unit Shipments for Consumer Electronics
- Applications Revenue for Consumer Electronics
- Applications Unit Shipments for Consumer Electronics
- Class Revenue for Industrial Electronics
- Class Unit Shipments for Industrial Electronics
- Applications Revenue for Industrial Electronics
- Applications Unit Shipments for Industrial Electronics
- Class Revenue for Wired Communications
- Class Unit Shipments for Wired Communications
- Applications Revenue for Wired Communications
- Applications Unit Shipments for Wired Communications
- Class Revenue for Wireless Communications
- Class Unit Shipments for Wireless Communications
- Applications Revenue for Wireless Communications
- Applications Unit Shipments for Wireless Communications

Competitive Landscape, Share Tables
- Market Share Leaders for Processors with Graphics or AI Acceleration
- Market Share Leaders for Processors with Graphics Acceleration Cores
- Market Share Leaders for Processors with AI Acceleration
- Market Share Leaders for Platform Ecosystem in Graphics or AI Acceleration
- Market Share Leaders for Merchant vs. Captive
- Automotive Electronics Share Leaders
- Computing & Data Storage Share Leaders
- Consumer Electronics Share Leaders
- Industrial Electronics Share Leaders
- Wired Communications Share Leaders
- Wireless Communications Share Leaders
- Supplier List
About Omdia’s Semiconductor Components Research

Omdia’s leading semiconductor components research is provided by a highly experienced team of analysts. Many are industry veterans with deep technical background as well as hands-on market and product experience in their coverage area. The key component areas of processors and microcontrollers, MEMS and Sensors, Power discretes and modules, Power ICs, LED and Optical components are covered across numerous device categories and applications.

Their expertise is augmented and supported by the wide array of end equipment application and demand reporting, semiconductor manufacturing tracking and forecasting and spotlight services such as the semiconductor competitive landscape tool, the application market forecast tracker, the China semiconductor intelligence service and others.
### 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</td>
<td>Global Semiconductor Manufacturing Market Tracker</td>
<td>China Semiconductor Intelligence Service</td>
</tr>
<tr>
<td>Mobile &amp; Embedded Memory Intelligence Service</td>
<td>LED Intelligence Service</td>
<td>Pure Play Foundry Market Tracker</td>
<td>Design Activity Tool</td>
</tr>
<tr>
<td>NAND Memory Intelligence Service</td>
<td>Magnetic Sensors Report - 2019</td>
<td>Semiconductor Silicon Demand Forecast Tool</td>
<td>Industrial Semiconductor Intelligence Service</td>
</tr>
<tr>
<td>SSD &amp; HDD Storage Memory Intelligence Service</td>
<td>MEMS &amp; Sensors for Consumer &amp; Mobile Intelligence Service</td>
<td></td>
<td>OEM Semiconductor Spend Tracker</td>
</tr>
<tr>
<td></td>
<td>MEMS &amp; Sensors Intelligence Service</td>
<td></td>
<td>OEM Semiconductor Spending &amp; Design Activity Intelligence Service</td>
</tr>
<tr>
<td></td>
<td>Microcontroller Market Tracker</td>
<td></td>
<td>Semiconductor Application Forecast AMFT Spotlight Service</td>
</tr>
<tr>
<td></td>
<td>Optoelectronic Components Report - 2020</td>
<td></td>
<td>Semiconductor Competitive Landscape CLT Spotlight Service</td>
</tr>
<tr>
<td></td>
<td>Power Semiconductor Intelligence Service</td>
<td></td>
<td>Semiconductor Forecast Scenario Tool</td>
</tr>
<tr>
<td></td>
<td>Processors for Graphics &amp; Artificial Intelligence Market Tracker</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Processors for Network Infrastructure Market Tracker</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Processors Spotlight Service</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>System-on-Chip (SoC) Market Tracker</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**

- Make the right decisions
- Sanity-check your own findings
- Get the most out of your subscription
- Understand more about our methodologies

Our Ask an Analyst service gives you direct contact via telephone, email or face-to-face session with our expert analyst team:

- **Tom Coate**
  Customer Success Manager

- **Kären Dyer**
  Customer Success Manager

96% of our customers rate our service as Excellent or Very Good.
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.