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Power Semiconductor Intelligence Service

**Part of the Semiconductor Components
Service Area Package**
Comprehensive analysis of the entire power
semiconductor market landscape

“ This service features the industry’s leading bi-annual market share report and competitive analysis of more than 100 suppliers, along with market trackers and topical reports on power discretes, power modules and power ICs. ”

Richard Eden
Principal Analyst

Power Semiconductor Intelligence Service

Part of the Semiconductor Components Service Area Package

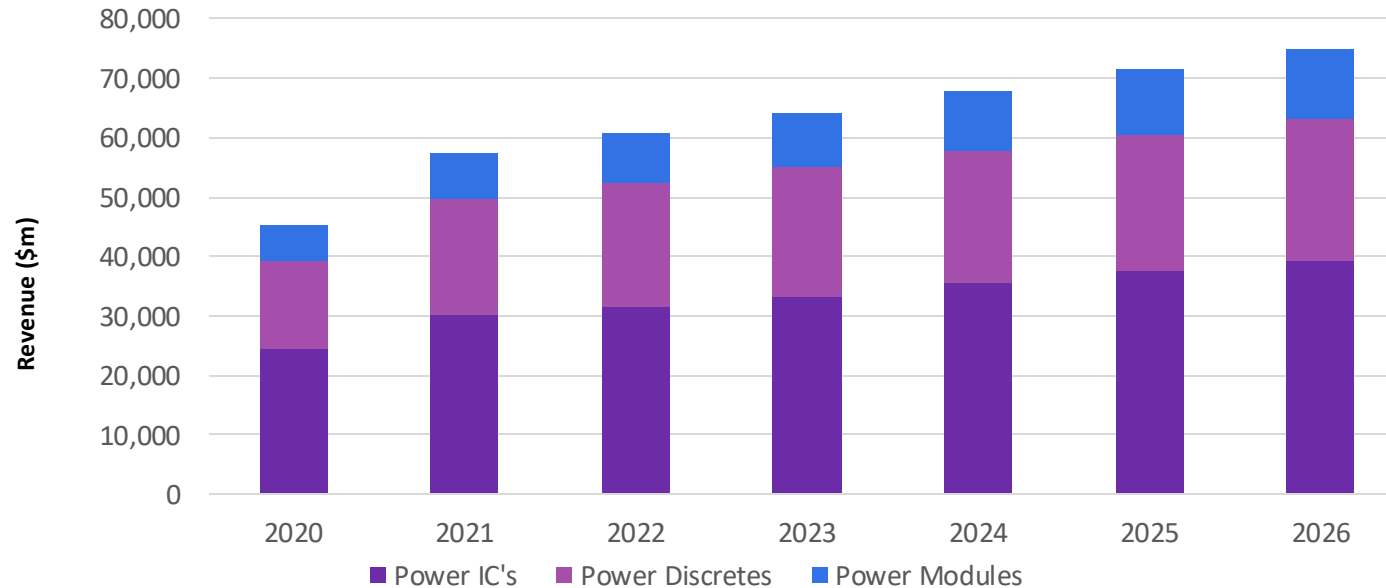
How Omdia helps you

- Identifies growth opportunities and market drivers for power discretes, power modules and power ICs
- Emerging technology focus: SiC and GaN power semiconductors
- Critical market deep dive: Automotive and Data Center applications

Key questions addressed

- How will the power semiconductor market develop as the global economy approaches recession and instability?
- How fast will the automotive power semiconductor market recover from its steep decline in 2023?
- How fast will SiC and GaN power semiconductors grow in the market?
- Who is gaining share in the power semiconductor market?
- What are the trends in power modules used by the xEV market?
- How will the need for improved electrical power efficiency affect the power semiconductor market?

Power semiconductor revenue forecast



Source: Omdia

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Semiconductor Components: Our expert analysts



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Power Semiconductor: Deliverables



MARKET TRACKERS

—Semi-annually—

- Power Discrete and Module Market Tracker
- Power IC Market Tracker



DATABASE

—Semi-annually—

- Power Semiconductor Market Share Database



REPORTS

—Annual—

- The industry standard annual report on the global power semiconductor market



TOPICAL REPORTS

—Annually—

- SiC and GaN Power Semiconductors
- Power Semiconductors in Automotive
- Power Semiconductors in Data Centers



ANALYST INSIGHTS

—Ongoing—

- Frequent analyst commentary on major conferences, market news and analysis.



ANALYST ACCESS

—Ongoing—

- For prompt responses to urgent and unique questions.

Power Semiconductor: Market Trackers, Database & Topical Reports

Power Discrete & Module Market Tracker

Frequency: Semi-annually

Offers data covering each of the power semiconductor product categories including revenue, average prices, shipment volumes, application sectors, and regions

Regions: Americas, China, EMEA, Japan, Rest of Asia & Oceania

See descriptions at 'Research Coverage' page

Power IC Market Tracker

Frequency: Semi-annually

In-depth market trend, growth drivers, and emerging technology analysis with annual forecasts provided for all types of power ICs

Regions: Americas, China, EMEA, Japan, Rest of Asia & Oceania

See descriptions at 'Research Coverage' page

Power Semiconductor Market Share Database

Frequency: Semi-annually

A competitive analysis of >100 suppliers including market share by device type for power discretes, power modules and power ICs

Regions: Americas, China, EMEA, Japan, Rest of Asia & Oceania

Topical Reports

Frequency: Annually

Detailed topical examination of emerging markets and technologies. Forecast and analysis of the strategic, technological and competitive landscape influencing market growth and development for areas such as:

- Silicon Carbide and Gallium Nitride (SiC and GaN) power semiconductors
- Power semiconductors in automotive
- Power semiconductors in data centers

Regions: Global

Power IC Market Tracker: Research Coverage

POWER IC MARKET TRACKER

Semiconductor Categories

- AC-DC switching regulators
- DC-DC switching regulators
- Isolated switching controllers
- Non-isolated switching controllers
- Low drop out regulators (LDOs)
- Traditional linear regulators
- Voltage reference ICs
- Supply voltage supervisors
- Gate driver ICs
- Hot swap controllers
- Motor driver ICs
- Solenoid driver ICs
- Battery management ICs
- Monolithic power stages
- Multi-chip power stages
- Intelligent power switches
- PFC controller ICs
- Power management ICs (PMICs)
- Power over ethernet (PoE) controllers
- Squib driver ICs
- System basis chips
- Other power ICs

Application Market Sectors

- Automotive (6 categories)
- Computing and data storage (6 categories)
- Consumer electronics (9 categories)
- Industrial (8 categories)
- Wired communications (5 categories)
- Wireless communications (5 categories)

Other Data Splits

- Power ICs ASPs
- Power ICs by region
- DC/DC switching regulators by topology
- DC/DC switching regulators by type
- DC/DC switching regulators by current
- DC/DC switching regulators by voltage
- Non-isolated switching controllers by topology
- LDO regulators by current
- Battery Management ICs by type
- PFC controllers by type

Power Discrete and Module Market Tracker: Research Coverage

POWER DISCRETE & MODULE MARKET TRACKER

Semiconductor Categories

- Bipolar power transistors
- Silicon power MOSFETs
- SiC power MOSFETs
- GaN power transistors
- Silicon protected MOSFETs
- Discrete IGBT
- Pressure contact IGBTs
- Silicon rectifier diodes (low, medium and high power)
- Silicon alternator diodes
- SiC rectifier diodes
- Thyristors (low, medium and high power)
- GTOs, GCTs & IGCTs
- MOSFET modules
- MOSFET-IPMs
- Thyristor/diode modules (and rectifier bridges)
- Standard (Non-integrated) IGBT modules
- Power integrated modules (PIM)/CIB
- Full SiC modules (SiC diodes and MOSFETs)
- Hybrid SiC modules (SiC diodes and Si IGBTs)
- Intelligent power modules (IGBT-IPMs)
- Power stacks

Applications for Discrete

- Automotive (exc. hybrid & electric vehicles)
- Computing and data storage
- Consumer electronics
- Hybrid & electric vehicle powertrains
- Industrial
- Medical
- Lighting
- Renewable energy
- Transport (traction)
- Wired communications
- Wireless communications

Applications for Power Modules

- Automotive (exc. hybrid & electric vehicles)
- Consumer electronics
- Grid infrastructure
- Hybrid & electric vehicle powertrains
- Industrial motor drives
- Induction heating and welding
- Power supplies
- Solar energy
- Traction
- Wind (and other renewable energy)
- Other applications

Other Data Splits

- Discretes and modules by country
- Silicon low power rectifiers by type
- Silicon low power rectifiers by package
- SiC rectifiers by voltage
- SiC rectifiers by package
- Bipolar power transistors by voltage
- Silicon MOSFETs by voltage
- Silicon MOSFETs by package
- SiC MOSFETs by voltage
- SiC MOSFETs by package
- Discrete IGBTs by voltage
- Discrete IGBTs by package
- Power modules by voltage
- IGBT modules by current

Publication timeline – 2023 (tentative)

Quarter	Report Title	Publication
Q1-23	Power Semiconductors in Data Centers – 2023 Power semiconductor market share database (preliminary 2022) Power IC market tracker (preliminary 2022) Power discrete and module market tracker (preliminary 2022)	Jan 2023 Feb 2023 Mar 2023 Mar 2023
Q2-23	APEC 2023 trade show report Power semiconductors in Automotive – 2023 PCIM Europe 2023 trade show report	Apr 2023 May 2023 June 2023
Q3-23	Power semiconductor market share database – 2022 Power IC market tracker – 2022 Power discrete and module market tracker – 2022	Aug 2023 Sept 2023 Sept 2023
Q4-23	Power Semiconductors in Data Centers – 2023 SiC & GaN power semiconductors – 2023	Nov 2023 Dec 2023
Q1-24	Power semiconductor market share database (preliminary 2023) Power discretes and modules market tracker (preliminary 2023) Power ICs market tracker (preliminary 2023)	Feb 2024 Mar 2024 Mar 2024

Related Content: Semiconductor Components Service Area Coverage



Service Area Package: **Semiconductor Components**

LED
Intelligence Service

MEMS & Sensors
Intelligence Service

Microcontroller
Market Tracker

Power Semiconductor
Intelligence Service

Processors for Network
Infrastructure Market Tracker

MEMS & Sensors for Consumer &
Mobile Intelligence Service

Optoelectronic Components
Report

Processors for Graphics &
Artificial Intelligence Market Tracker

System-on-Chip (SoC)
Market Tracker

Processors Spotlight Service

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.

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 - 2023 • 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

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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.