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 and when will the power semiconductor market recover from the Covid-19 shock?

• How fast will the automotive power semiconductor market recover from its steep decline in 2020?

• How fast will SiC and GaN power semiconductors grow in the market?

• Who is gaining share in the power semiconductor market?

• What is the trend in power modules in the HEV/EV market space?

• How will 5G, IoT, and AI/ML affect the power semiconductor market?
Semiconductor Components: Our Expert Analysts

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**Power Semiconductor: Deliverables**

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<td>• SiC and GaN Power Semiconductors</td>
<td>Frequent analyst commentary on major conferences, market news and analysis.</td>
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# 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

*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, EMEA, Japan, China, Rest of Asia

## 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

*See descriptions at 'Research Coverage' page*

## 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
### 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
- Full SiC modules (SiC diodes and MOSFETs)
- Thyristor/diode modules (and rectifier bridges)
- Standard (Non-integrated) IGBT modules
- Power integrated modules (PIM)/CIB
- 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 package
- Discrete IGBTs by voltage
- Power modules by voltage
- IGBT modules by current
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

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