

Global Gallium Nitride Patent Intelligence Market 2026 – Strategic Analysis of Leading Companies, Technology Trends, Manufacturing, Innovation, and Competitive Landscape

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Abstracts

The Global Gallium Nitride Patent Intelligence report provides an in-depth analysis of the intellectual property landscape within the global gallium nitride (GaN) industry by evaluating patent filing activities, technology innovation trends, patent ownership, research activities, and emerging innovation domains. The report enables organizations to monitor technology leadership, assess competitive intellectual property positions, identify licensing opportunities, and support strategic decisions related to research, product development, and technology commercialization.

The study examines global patent portfolios across GaN power devices (40V-1200V), GaN-on-Silicon and GaN-on-Silicon Carbide platforms, GaN HEMT device structures and packaging, vertical GaN architectures and transistor technologies, GaN-based power conversion systems and ICs, RF GaN technologies, GaN substrate and epitaxial materials, gallium supply chain technologies, and next-generation GaN innovation domains including micro-LED displays and GaN optical interconnects .

The report further highlights patent commercialization opportunities, licensing activities, research collaborations, and future technology directions to help organizations strengthen innovation strategies and intellectual property portfolios.

Key Coverage

Gallium nitride patent landscape

Patent filing trends

Technology domain analysis

Leading patent holders

Patent portfolio benchmarking

Geographic patent distribution

Citation analysis

Licensing landscape

White-space opportunities

Future patent outlook

Target Audience

Chief Intellectual Property Officers (CIPOs)

Intellectual Property & Patent Teams

Research & Development (R&D) Teams

GaN Technology Developers

Innovation Management Teams

Technology Scouting Teams

Product Development Teams

Semiconductor Manufacturers

Automotive OEMs

Data Center Operators

Universities & Research Institutions

Government & Research Organizations

Technology Transfer Offices

Investment & Venture Capital Firms

Legal & Licensing Professionals

What This Report Offers

Comprehensive GaN patent landscape assessment

Patent filing and publication trend analysis

Patent portfolio benchmarking

Leading patent holder and assignee analysis

GaN technology domain analysis

Geographic patent distribution assessment

Patent citation and quality analysis

Inventor and innovation activity assessment

Licensing and patent commercialization insights

Freedom-to-operate intelligence

Emerging innovation and white-space opportunity identification

Future intellectual property and technology outlook

Key Companies Covered (Illustrative)

Wolfspeed Inc.

Infineon Technologies AG

GaN Systems Inc.

Navitas Semiconductor

STMicroelectronics N.V.

NXP Semiconductors N.V.

Texas Instruments Incorporated

Xidian University

Huawei Technologies Co., Ltd.

Sumitomo Electric Industries, Ltd.

Rohm Semiconductor

Innoscence

Fujitsu Limited

Shin-Etsu Handotai Co., Ltd.

and other leading patent holders and industry participants.

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- 12.8 Xidian University
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- 12.10 Sumitomo Electric Industries, Ltd.
- 12.11 Rohm Semiconductor
- 12.12 Innoscience
- 12.13 Fujitsu Limited
- 12.14 Shin-Etsu Handotai Co., Ltd.
- 12.15 Fuji Electric Co., Ltd.
- 12.16 Panasonic Holdings Corporation
- 12.17 Toshiba Corporation
- 12.18 Mitsubishi Electric Corporation
- 12.19 ON Semiconductor
- 12.20 Infineon Technologies Austria AG

12.21 French Alternative Energies and Atomic Energy Commission (CEA)

12.22 IMEC (Interuniversitair Micro-Electronics Centrum)

12.23 Soitec SA

12.24 University of California Regents

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