

# GaN Power & RF

## Patent Monitoring Service

*Get updated data on GaN-related patent activity for RF & Power electronics:  
New patents, patents expired or abandoned, latest patent transfers and patent litigation.*

### SERVICE OUTLINE

- Patent monitoring service
- GaN Power & RF electronics
- Excel file monthly updated.
- Quarterly report.
- Access to IP analyst (100h a year)
- €30,000 for annual subscription.



### RF GaN

The RF GaN market is growing fast – driven by military and telecom applications – and there is still a huge potential to develop for RF GaN market players with the advent of 5G infrastructure for instance. With RF GaN market ramping up, Knowmade have seen many new players entering the RF GaN patent landscape and several major companies (Fujitsu, Toshiba) strengthening their IP position and challenging well-established IP players (Cree/Wolfspeed, Sumitomo Electric). Furthermore GaN-on-SiC technology has been so far the predominant technology in GaN RF devices market. However in the near future GaN-on-SiC technology will have to compete with GaN-on-Si especially in the telecom market as performance and reliability of this technology keep improving.

In this context, the patent monitoring service allows to identify new entrants in RF GaN competitive landscape and track the IP activity of major players according to the value chain (epiwafer, device, MMIC, etc.), the technology (GaN-on-Si) and technological challenges (thermal management, current collapse). Furthermore, the patent monitoring service provides information about recently expired or abandoned patents which may create new business opportunities and reports recent patent litigations in the field of RF GaN technology.

### KEY FEATURES OF THE SERVICE

Every month an Excel file including:

- New patents applications.
- Patent newly granted.
- Patents expired or abandoned.
- Transfer of IP rights (re-assignment, licensing)
- Patent litigation and opposition.
- Patents categorized by applications, position in the value chain and technological challenges:  
Power IC, MMIC, E-mode transistors, Vertical power devices, Wafer & Epiwafer, GaN-on-Silicon, Current collapse & dynamic on-resistance, Thermal issues, etc.

Every quarter a report including:

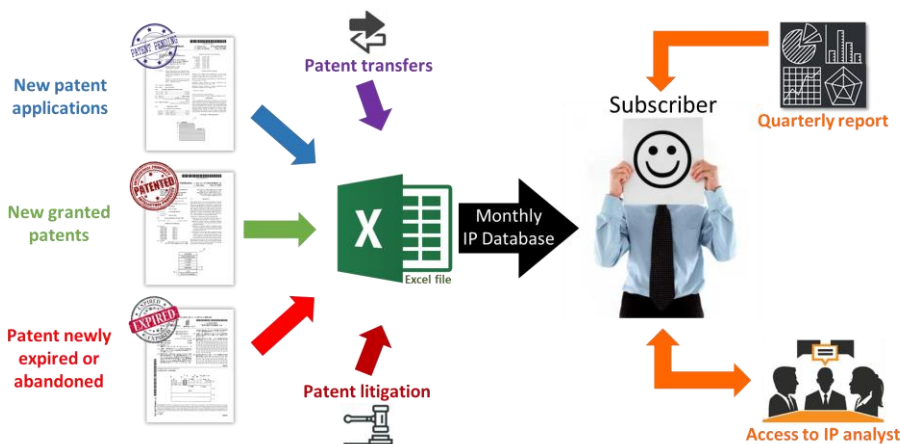
- Key fact & figures of the quarter.
- IP players and technologies.

Access to IP analyst for 100h a year:

- Q&A session and open discussion with our IP analysts.
- Requesting for patent search on company or technology.

### OBJECTIVES OF THE SERVICE

- Track your competitors, partners or clients.
- Identify newcomers to your technology field.
- Early detect opportunities and risks for your business strategy.
- Be ahead of technology trends.
- Identify emerging research areas and cutting-edge technology developments.
- Mitigate patent infringement risks.
- Take advantage of free technologies



### Power GaN

Power GaN market may suddenly take off in the next years as many opportunities exist for this technology especially in power supply and EV applications (wireless charging, fast charging). Furthermore, in this market, numerous fabless or fab-lite start-ups (EPC, Navitas, etc.) relying on foundry services such as X-Fab or TSMC compete with major semiconductor companies (Infineon, STMicroelectronics) in order to find the most cost-effective and easy-to-use solution for GaN technology at the system level (E-mode or D-mode devices, SiP or SoC, etc.) and thereby aiming at accelerating the adoption of GaN technology for power applications.

In this context, the patent monitoring service gives periodic insights on the IP activity of start-up & big companies, according to the level of integration (package or chip) and functionalization of power IC, the technology (E-mode, vertical devices) and technological challenges (thermal issues, dynamic on-resistance). Furthermore, the patent monitoring service allows to early detect newcomers in the field of power GaN, and details the IP collaborations and transfer of rights between IP players.

## BENEFITS OF THE PATENT MONITORING SERVICE

### Keep a watch on your competitors' IP activities and their future intentions.

With the help of the patent monitoring service, you will be aware of your competitors' current patenting activities, their IP dynamics, patent transfers including acquisitions and licenses, patent litigation, technology development and R&D strategies. You will also be able to early detect new entrants in your business area.

### Keep track of the latest technology developments and be ahead of technology trends.

By keeping note of any recent patent filings, you can track the newest innovations in the field. You will get details on claimed inventions and you can follow technology developments. New technical solutions could inspire and improve your R&D activity.

### Prevent registration of IP rights that may be harmful to your business.

You will obtain information on patent applications filed even before exclusive rights have been granted and you can react in time to prevent registration of IP rights that may be harmful to your business.

### React in time to infringements and mitigate legal risks.

Monitoring newly-issued patents allows you to regularly assess your freedom-to-operate, ensuring your products or processes are not covered patents and thus they can be manufactured, sold or used safely without infringing valid IP rights owned by others.

### Take advantage of free technologies and decrease R&D project risks.

By tracking both expired patents and abandoned patents, you will be able to identify inventions entering the public domain that you can use safely for your development.

### Understand the current IP trends and IP strategy of competitors

On a quarterly basis, the report will provide the IP trends over the three last months, with a close look to key IP players and key patented technologies. Main patent applicants and their inventions, blocking patents, promising patents and key patents newly expired or abandoned will be highlighted..

### Access to the IP analyst

Take advantage of direct interaction with our analysts by phone call and/or email and get specific input for specific patented technologies and company IP portfolios through Q&A session and open discussion (100h a year).

### Download example file

Current assignee of the patent family	Publication number of the patent family	Type	IP class	Current legal status	Grant date	Expiry date	Title	Abstract	Claims	Original inventor	Patent applicant	IP classification	Technical segment	Power efficiency & operating method	MMIC	RF circuitry & operating method	RF circuitry & operating method	RF circuitry & operating method
129. ANHUI UNIVERSITY OF ELECTRIC	CN103604992	NEW PATENT APPLICATION		PENDING		2018-11-12												
130. JIANGSU CAS SENSING TECHNOLOGY	CN103604789	NEW PATENT APPLICATION		PENDING		2018-09-12												
131. ENGLISH MICROELECTRONIC TECHNOLOGY DEV.	CN103602776	NEW PATENT APPLICATION		PENDING		2018-09-12												
132. ENGLISH MICROELECTRONIC TECHNOLOGY DEV.	CN103602776	NEW PATENT APPLICATION		PENDING		2018-09-12												
133. ENGLISH MICROELECTRONIC TECHNOLOGY DEV.	CN103602776	NEW PATENT APPLICATION		PENDING		2018-09-12												
134. JIANGSU RINGULIANG SEMICONDUCTOR	CN103604408	NEW PATENT APPLICATION		PENDING		2018-11-13												
135. KOREA ELECTRONICS &	KR201802230	NEW PATENT APPLICATION		PENDING		2018-09-18												
136. ELECTRONICS & TELECOMMUNICATIONS RESEARCH	KR201802249	NEW PATENT APPLICATION		PENDING		2018-09-11												
137. LAPIS SEMICONDUCTOR	TW2018047822P001	NEW PATENT APPLICATION		PENDING		2018-02-18												
138. LG ELECTRONICS	US20180220854	NEW PATENT APPLICATION		PENDING		2018-02-18												
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200. LG ELECTRONICS	US20180220854	NEW PATENT APPLICATION		PENDING		2018-02-18												

Monthly database IP activity of the month

Patent information (Assignees, numbers, dates, title, abstract, claims, legal status, original document etc.)

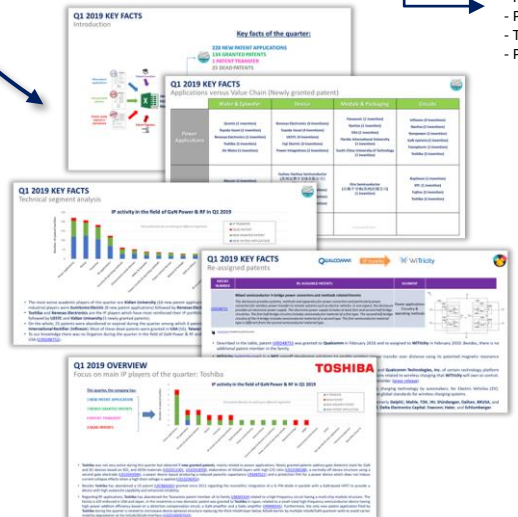
Patent segmentation (E-mode, power IC, MMIC, etc.)

### Quarterly report

Key fact & figures of the quarter

- Identify easily and efficiently
- New patents applications
- Patents newly granted
- Patents expired or abandoned
- Transfer of IP rights
- Patent litigation

The patents are manually categorized in technical segments using keyword analysis of patent title, abstract and claims, in conjunction with expert review of the subject-matter of inventions.



### Access to IP analyst

Q&A session and open discussion



Download sample report

# ORDER FORM

## GaN Power & RF

### Patent Monitoring Service

Annual subscription: monthly Excel file, quarterly report and access to analyst for one year

#### SHIP TO

Name (Mr/Ms/Dr/Pr):

Job Title:

Company:

Address:

City:

State:

Postcode/Zip:

Country:

VAT ID Number for EU members:

Tel:

Email:

Date:

#### PAYMENT METHODS

Order online for instant download: [Click here](#)

##### Check

To pay your invoice by check, please mail to the following address:

KnowMade S.A.R.L.

2405 route des Dolines

06902 Valbonne Sophia Antipolis

FRANCE

##### Money Transfer

To pay your invoice by bank money wire transfer, please contact your bank to complete the process. Here is the information required for submitting payment:

Payee: KnowMade S.A.R.L.

Bank: Banque Populaire Méditerranée, CAP 3000 Quartier du lac, 06700 St Laurent du Var

IBAN: FR76 1460 7003 6360 6214 5695 139

BIC/SWIFT: CCBPFRPPMAR

##### Paypal

In order to pay your invoice via PAYPAL, you must first register at [www.paypal.com](http://www.paypal.com). You can then send money to KnowMade S.A.R.L. by entering our email address ([contact@knowmade.fr](mailto:contact@knowmade.fr)) as the recipient, and inputting the invoice amount.

#### PRODUCT ORDER

**€30,000** Monthly Excel file, quarterly report and access to analyst for one year.

For price in dollars, please use the day's exchange rate.  
For French customer, add 20% for VAT.

The documents are electronically delivered every month for the Excel file and every quarter for the report.  
12 Excel files, 4 reports and 100h Q&A for one year

*I hereby accept Knowmade's Terms and Conditions of Sale*

**SIGNATURE:**

#### RETURN ORDER BY

**E-mail:** [contact@knowmade.fr](mailto:contact@knowmade.fr)

**Mail:** Knowmade, 2405 route des Dolines, Le Drakkar D108, 06560 Valbonne Sophia Antipolis, FRANCE

#### ABOUT KNOWMADE

Specializing in patent analysis and scientific information, **Knowmade** provides technology intelligence and IP strategy consulting services. The company supports R&D organizations, industrial companies, and investors in their business development by offering them a deep understanding of their competitive landscape and technology trends.

**Knowmade** operates in the following industrial sectors: Compound Semiconductors, Power Electronics, RF & Microwave Technologies, Solid-state Lighting & Display, Photonics, Memory, MEMS, Solid-state Sensors, Manufacturing & Advanced Packaging, Batteries & Energy Management, Biotechnology, Pharmaceuticals, Medical Devices, Medical Imaging, and Agri-Food. **Knowmade's** experts provide prior art search, patent landscape analysis, scientific literature analysis, patent valuation, IP due diligence, and freedom-to-operate analysis. In parallel, the company proposes litigation/licensing support, technology scouting, and IP/technology watch services. **Knowmade's** analysts combine their technical and patent expertise with powerful analytics tools and proprietary methodologies to deliver relevant patent analyses and scientific reviews.

# TERMS AND CONDITIONS OF SALES

## Definitions

“Acceptance”: Action by which the Buyer accepts the terms and conditions of sale in their entirety. It is done by signing the purchase order which mentions “I hereby accept Knowmade’s Terms and Conditions of Sale”.

“Buyer”: Any business user (i.e. any person acting in the course of its business activities, for its business needs) entering into the following general conditions to the exclusion of consumers acting in their personal interests.

“Contracting Parties” or “Parties”: The Seller on the one hand and the Buyer on the other hand.

“Intellectual Property Rights” (“IPR”) means any rights held by the Seller in its Products, including any patents, trademarks, registered models, designs, copyrights, inventions, commercial secrets and know-how, technical information, company or trading names and any other intellectual property rights or similar in any part of the world, notwithstanding the fact that they have been registered or not and including any pending registration of one of the above mentioned rights.

“License”: For the reports and databases, 2 different licenses are proposed. The buyer has to choose one license:

1. Single user license: a single individual at the company can use the report.
2. Corporate license: the report can be used by unlimited users within the company. Subsidiaries are not included.

“Products”: Reports are established in PowerPoint and delivered on a PDF format and the database may include Excel files.

“Seller”: Based in Sophia Antipolis (France headquarters), Knowmade is a technology intelligence company specialized in the research and analysis of scientific and technical information. We provide patent landscapes and scientific state of the art with high added value to businesses and research laboratories. Our intelligence digests play a key role to define your innovation and development strategy.

## 1. Scope

1.1 The Contracting Parties undertake to observe the following general conditions when agreed by the Buyer and the Seller. ANY ADDITIONAL, DIFFERENT, OR CONFLICTING TERMS AND CONDITIONS IN ANY OTHER DOCUMENTS ISSUED BY THE BUYER AT ANY TIME ARE HEREBY OBJECTED TO BY THE SELLER, SHALL BE WHOLLY INAPPLICABLE TO ANY SALE MADE HEREUNDER AND SHALL NOT BE BINDING IN ANY WAY ON THE SELLER.

1.2 This agreement becomes valid and enforceable between the Contracting Parties after clear and non-equivocal consent by any duly authorized person representing the Buyer. For these purposes, the Buyer accepts these conditions of sales when signing the purchase order which mentions “I hereby accept Knowmade’s Terms and Conditions of Sale”. This results in acceptance by the Buyer.

1.3 Orders are deemed to be accepted only upon written acceptance and confirmation by the Seller, within [7 days] from the date of order, to be sent either by email or to the Buyer’s address. In the absence of any confirmation in writing, orders shall be deemed to have been accepted.

## 2. Mailing of the Products

2.1 Products are sent by email to the Buyer:

- within [1] month from the order for Products already released; or

- within a reasonable time for Products ordered prior to their effective release. In this case, the Seller shall use its best endeavours to inform the Buyer of an indicative release date and the evolution of the work in progress.

2.2 Some weeks prior to the release date the Seller can propose a pre-release discount to the Buyer.

The Seller shall by no means be responsible for any delay in respect of article 2.2 above, and including in cases where a new event or access to new contradictory information would require for the analyst extra time to compute or compare the data in order to enable the Seller to deliver a high quality Products.

2.3 The mailing of the Product will occur only upon payment by the Buyer, in accordance with the conditions contained in article 3.

2.4 The mailing is operated through electronic means either by email via the sales department. If the Product’s electronic delivery format is defective, the Seller undertakes to replace it at no charge to the Buyer provided that it is informed of the defective formatting within 90 days from the date of the original download or receipt of the Product.

2.5 The person receiving the Products on behalf of the Buyer shall immediately verify the quality of the Products and their conformity to the order. Any claim for apparent defects or for non-conformity shall be sent in writing to the Seller within 8 days of receipt of the Products. For this purpose, the Buyer agrees to produce sufficient evidence of such defects.

2.6 No return of Products shall be accepted without prior information to the Seller, even in case of delayed delivery. Any Product returned to the Seller without providing prior information to the Seller as required under article 2.5 shall remain at the Buyer’s risk.

## 3. Price, invoicing and payment

3.1 Prices are given in the orders corresponding to each Product sold on a unit basis or corresponding to annual subscriptions. They are expressed to be inclusive of all taxes. The prices may be reevaluated from time to time. The effective price is deemed to be the one applicable at the time of the order.

3.2 Payments due by the Buyer shall be sent by cheque payable to Knowmade, PayPal or by electronic transfer to the following account:

Banque Populaire Méditerranée, CAP 3000 Quartier du lac, 06700 St Laurent du Var

BIC or SWIFT code: CCBPFRPPMAR

IBAN: : FR76 1460 7003 6360 6214 5695 139

To ensure the payments, the Seller reserves the right to request down payments from the Buyer. In this case, the need of down payments will be mentioned on the order.

3.3 Payment is due by the Buyer to the Seller within 30 days from invoice date, except in the case of a particular written agreement. If the Buyer fails to pay within this time and fails to contact the Seller, the latter shall be entitled to invoice interest in arrears based on the annual rate Refi of the «BCE» + 7 points, in accordance with article L. 441-6 of the French Commercial Code. Our publications (report, database, tool...) are delivered only after reception of the payment.

3.4 In the event of termination of the contract, or of misconduct, during the contract, the Seller will have the right to invoice at the stage in progress, and to take legal action for damages.

## 4. Liabilities

4.1 The Buyer or any other individual or legal person acting on its behalf, being a business user buying the Products for its business activities, shall be solely responsible for choosing the Products and for the use and interpretations he makes of the documents it purchases, of the results he obtains, and of the advice and acts it deduces thereof.



4.2 The Seller shall only be liable for (i) direct and (ii) foreseeable pecuniary loss, caused by the Products or arising from a material breach of this agreement

4.3 In no event shall the Seller be liable for:

a) damages of any kind, including without limitation, incidental or consequential damages (including, but not limited to, damages for loss of profits, business interruption and loss of programs or information) arising out of the use of or inability to use the Seller's website or the Products, or any information provided on the website, or in the Products;

b) any claim attributable to errors, omissions or other inaccuracies in the Product or interpretations thereof.

4.4 All the information contained in the Products has been obtained from sources believed to be reliable. The Seller does not warrant the accuracy, completeness adequacy or reliability of such information, which cannot be guaranteed to be free from errors.

4.5 All the Products that the Seller sells may, upon prior notice to the Buyer from time to time be modified by or substituted with similar Products meeting the needs of the Buyer. This modification shall not lead to the liability of the Seller, provided that the Seller ensures the substituted Product is similar to the Product initially ordered.

4.6 In the case where, after inspection, it is acknowledged that the Products contain defects, the Seller undertakes to replace the defective products as far as the supplies allow and without indemnities or compensation of any kind for labor costs, delays, loss caused or any other reason. The replacement is guaranteed for a maximum of two months starting from the delivery date. Any replacement is excluded for any event as set out in article 5 below.

4.7 The deadlines that the Seller is asked to state for the mailing of the Products are given for information only and are not guaranteed. If such deadlines are not met, it shall not lead to any damages or cancellation of the orders, except for non-acceptable delays exceeding [4] months from the stated deadline, without information from the Seller. In such case only, the Buyer shall be entitled to ask for a reimbursement of its first down payment to the exclusion of any further damages.

4.8 The Seller does not make any warranties, express or implied, including, without limitation, those of saleability and fitness for a particular purpose, with respect to the Products. Although the Seller shall take reasonable steps to screen Products for infection of viruses, worms, Trojan horses or other codes containing contaminating or destructive properties before making the Products available, the Seller cannot guarantee that any Product will be free from infection.

## 5. Force majeure

The Seller shall not be liable for any delay in performance directly or indirectly caused by or resulting from acts of nature, fire, flood, accident, riot, war, government intervention, embargoes, strikes, labor difficulties, equipment failure, late deliveries by suppliers or other difficulties which are beyond the control, and not the fault of the Seller.

## 6. Protection of the Seller's IPR

6.1 All the IPR attached to the Products are and remain the property of the Seller and are protected under French and international copyright law and conventions.

6.2 The Buyer agreed not to disclose, copy, reproduce, redistribute, resell or publish the Product, or any part of it to any other party other than employees of its company. The Buyer shall have the right to use the Products solely for its own internal information purposes. In particular, the Buyer shall therefore not use the Product for purposes such as:

- Information storage and retrieval systems;
- Recordings and re-transmittals over any network (including any local area network);
- use in any timesharing, service bureau, bulletin board or similar arrangement or public display;
- Posting any Product to any other online service (including bulletin boards or the Internet);
- Licensing, leasing, selling, offering for sale or assigning the Product.

6.3 The Buyer shall be solely responsible towards the Seller of all infringements of this obligation, whether this infringement comes from its employees or any person to whom the Buyer has sent the Products and shall personally take care of any related proceedings, and the Buyer shall bear related financial consequences in their entirety.

6.4 The Buyer shall define within its company point of contact for the needs of the contract. This person will be the recipient of each new report in PDF format. This person shall also be responsible for respect of the copyrights and will guaranty that the Products are not disseminated out of the company.

## 7. Termination

7.1 If the Buyer cancels the order in whole or in part or postpones the date of mailing, the Buyer shall indemnify the Seller for the entire costs that have been incurred as at the date of notification by the Buyer of such delay or cancellation. This may also apply for any other direct or indirect consequential loss that may be borne by the Seller, following this decision.

7.2 In the event of breach by one Party under these conditions or the order, the non-breaching Party may send a notification to the other by recorded delivery letter upon which, after a period of thirty (30) days without solving the problem, the non-breaching Party shall be entitled to terminate all the pending orders, without being liable for any compensation.

## 8. Miscellaneous

All the provisions of these Terms and Conditions are for the benefit of the Seller itself, but also for its licensors, employees and agents. Each of them is entitled to assert and enforce those provisions against the Buyer.

Any notices under these Terms and Conditions shall be given in writing. They shall be effective upon receipt by the other Party.

The Seller may, from time to time, update these Terms and Conditions and the Buyer, is deemed to have accepted the latest version of these terms and conditions, provided they have been communicated to him in due time.

## 9. Governing law and jurisdiction

9.1 Any dispute arising out or linked to these Terms and Conditions or to any contract (orders) entered into in application of these Terms and Conditions shall be settled by the French Commercial Courts of Grasse, which shall have exclusive jurisdiction upon such issues.

9.2 French law shall govern the relation between the Buyer and the Seller, in accordance with these Terms and Conditions.