

IPOSIM – Lifetime Estimation

October 2024



Table of contents

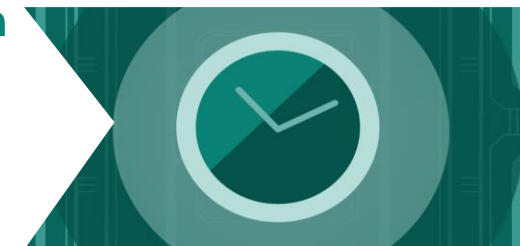
1	What is Lifetime Estimation Service (LTE)	3
2	Where to find it	7
3	How to activate LTE	10
4	Support	22

Table of contents

1	What is Lifetime Estimation Service (LTE)	3
2	Where to find it	7
3	How to activate LTE	10
4	Support	22

IPOSIM – Lifetime Estimation Service (LTE)

New online service to **digitally estimate the lifetime of Infineon Power modules in your application**



Perform **automated lifetime estimations** of Infineon power modules for the **Single Phase, Three-phase 2-level (Module) and Three-phase-3 level ANPC, NPC1 and NPC2 topologies** (More topologies to come).

LTE is designed to minimize your time to market:



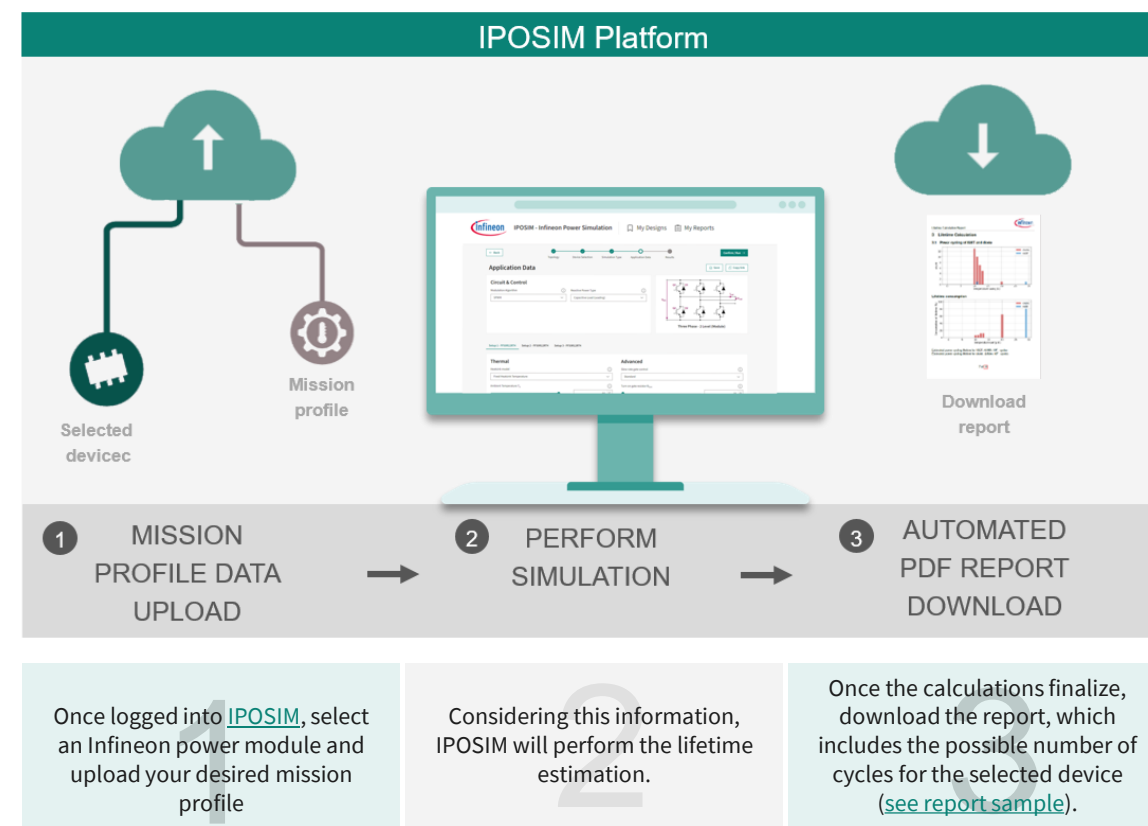
24/7 Access to unique know-how

- › Algorithm and models based on Infineon's unique device knowledge and decades of experience performing such estimations.
- › Designed for both short and long profiles for the **Single Phase, Three-phase Two-level, NPC1 (Module) and ANPC topologies** (More topologies to come).
- › New! - Simulation with **output frequency of 0 Hz is now supported**
- › Available online as a premium service of IPOSIM



Save time and effort in your design process

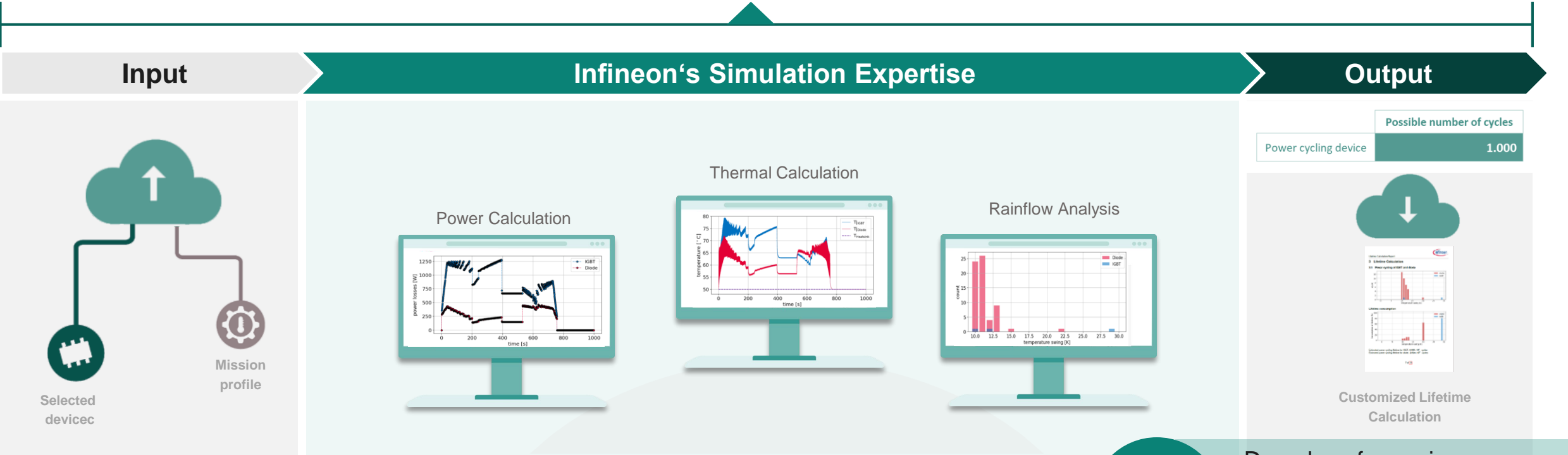
- › Fully automated online simulation
- › Accessible **whenever and as many times as needed**
- › Dedicated server enabling execution of **parallel simulations**
- › Generated PDF report designed for simple analysis and documentation



The automation combines Infineon's simulation expertise and unique device knowledge



Fully automated process



Infineon reliability and lifetime measurements



Decades of experience performing lifetime estimations for major players in the industrial sector.

Lifetime estimation service is included in IPOSIM as a premium simulation type

Infineon Power Simulation platform ([IPOSIM](#)) provides an easy way to **calculate power losses and thermal performance** of Infineon power modules, discrete and disk devices.

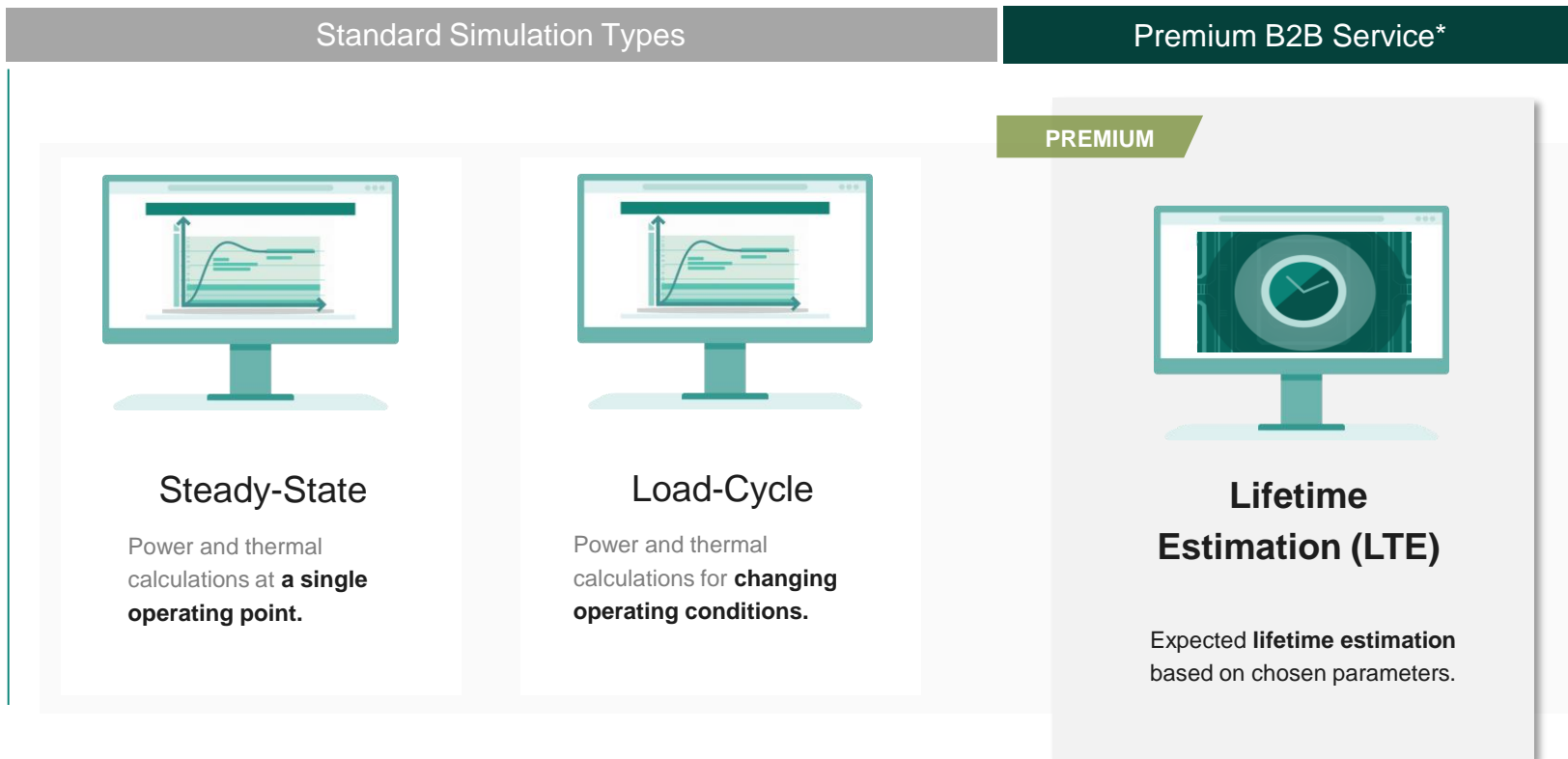


Table of contents

1	What is Lifetime Estimation Service (LTE)	3
2	Where to find it	7
3	How to activate LTE	10
4	Support	22

For detailed information about Lifetime Estimation please visit our Infopage. Here you can find our latest videos:



About IPOSIM Products and Topologies Getting started / steps **Lifetime Estimation Service**

Lifetime Estimation Service

IPOSIM Lifetime Estimation service is the new online simulation that enables you to digitally estimate the lifetime of Infineon power modules in your application.

Complement your design process with the first automated lifetime estimation simulation on the market. Its algorithm and models are based on Infineon's unique device knowledge and decades of experience performing such estimation for significant players in the industrial sector.

Main Features



Access unique semiconductor expertise

- Available online as a premium service of IPOSIM
- Designed for both short and long profiles for the Single-phase and Three-phase Two-level topology (More topologies to come)
- Enabled for Infineon power modules (Automotive modules and other products to come)
- New! Simulation with output frequency of 0 Hz is supported



Save time and effort in your design process

- Fully automated online simulation accessible whenever and as many times you need it
- Dedicated server allowing the execution of parallel simulations
- Generated PDF report designed for simple analysis and documentation

How does IPOSIM Lifetime Estimation service work?

Once logged into IPOSIM, users select their Infineon power module and upload their desired mission profile. Considering this information, IPOSIM will perform the lifetime estimation. Once the calculations finalize, users can download the report, including the possible number of cycles for the selected device (see example report).

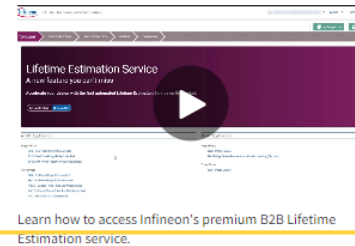
» For more information, please check the user manual with detailed explanations.



Start simulation

1) Subscription Process Video

IPOSIM Lifetime Estimation service - How to subscribe < Share



2) Demo video

IPOSIM Lifetime Estimation Service < Share



The IPOSIM Lifetime Estimation online simulation platform for Infineon power modules in your application.

3) Webinar

Webinar: Automated lifetime estimation of power semiconductors < Share



In this webinar, you will gain a general understanding of the factors that affect the lifetime of power modules, and gain exclusive insights into the methodology and operation of IPOSIM Lifetime Estimation service.

Here you can find:

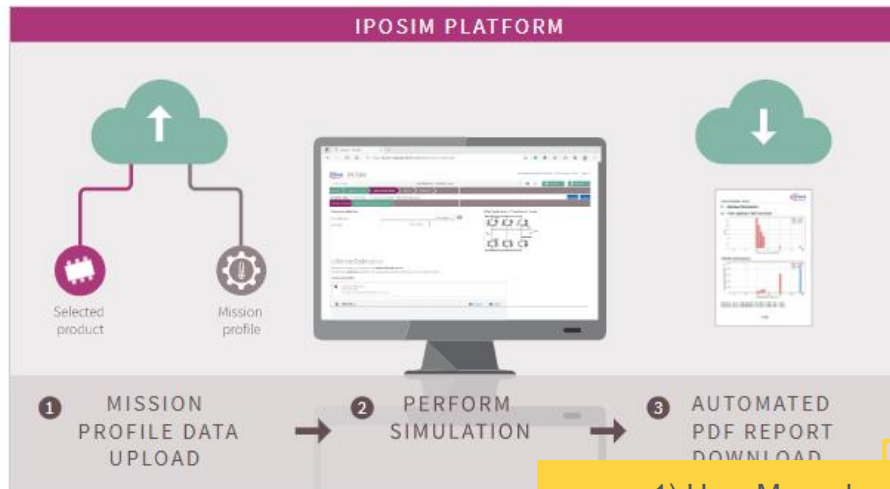
1. **Subscription Process video** on how to access Lifetime Estimation Service.
2. **Demo video** of Lifetime Estimation online simulation platform.
3. **Webinar** of the general factors that affect the lifetime of power semiconductors.

For detailed information about Lifetime Estimation please visit our Infopage. Here you can find the most important documents:

Home > Tools > Infineon Tools > IPOSIM - Infineon online power simulation platform

Once logged into the form, users select their Infineon power module and upload their selected mission profile. Considering this information, IPOSIM will perform the lifetime estimation. Once the calculations finalize, users can download the report, including the possible number of cycles for the selected device (see example report).

> For more information, please check the user manual with detailed explanations.



How to access IPOSIM Lifetime Estimation service

Lifetime Estimation is a premium (Business to Business) service for design engineers. The following subscription plans are available:

Subscription Plan

Select the Lifetime Estimation plan that works for you



The IPOSIM Lifetime Estimation online simulation platform for Infineon power modules in your application.

Webinar: Automated lifetime estimation of power semiconductors [Share](#)



In this webinar, you will gain a general understanding of the factors that affect the lifetime of power modules, and gain exclusive insights into the methodology and operation of IPOSIM Lifetime Estimation service.

Documents

User Manual - Lifetime Estimation Service Platform [Share](#)
01_00 | Oct 19, 2021 | PDF | 1.23 mb

Report Example [Share](#)
01_00 | Nov 19, 2021 | PDF | 733 kb

Terms and Conditions IPOSIM Lifetime Estimation service [Share](#)
01_00 | Nov 18, 2021 | PDF | 202 kb

Guide - How to Subscribe to IPOSIM Lifetime Estimation [Share](#)
01_00 | Feb 08, 2021 | PDF | 2.04 mb

Here you can find:

1. **User manual** of Lifetime Estimation service with detailed information about methodology and how to execute this simulation.
2. A **report sample** for users to inspect the results from the lifetime estimation simulation.
3. **Terms and Conditions** for the use of the Lifetime Estimation Service of Infineon IPOSIM Online Tool.
4. A Step-by-step **Guide** of the subscription process of IPOSIM Lifetime Estimation service and some general FAQ's.

Table of contents

1	What is Lifetime Estimation Service (LTE)	3
2	Where to find it	7
3	How to activate LTE	10
4	Support	22

Access Lifetime Estimation service through a complete digital journey:

Subscribe, pay and use, everything in IPOSIM

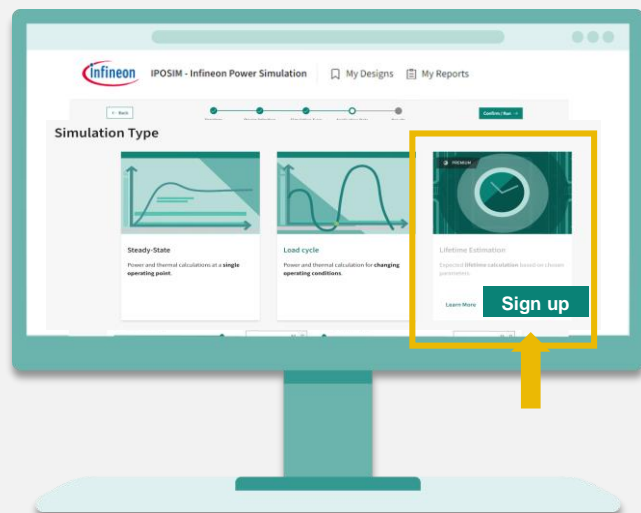


Activate Lifetime Estimation Service in 3 easy steps:



First, log into IPOSIM:
<https://iposim.infineon.com/>

1. Select your topology and your desired device(s).
2. In the **Simulation type** step, click on the **Sign up** button to start the activation process



Select your preferred **Subscription plan** and follow the instructions

Subscription Plan Billing Information Account Activation Payment Summary

Subscription Plan

Select the Lifetime Estimation plan that works for you

1

Lifetime Estimation

Highest flexibility

Valid for 3 months

No automatic renewal

€90.00

Select

5

Lifetime Estimations

Most popular

Valid for 3 months

No automatic renewal

€405.00

Selected

10

Lifetime Estimations

Best value

Valid for 3 months

No automatic renewal

€765.00

Select

FREE TRIAL

1 Lifetime Estimation | Valid for 1 week | No payment method required

Not sure which plan?
Check out our FREE TRIAL

Required information: Company's registered name, address, ZIP, city, country.
Example: Infineon Technologies AG, Am Campeon 1-15
85579 Neuburg, Germany



Pay online and start using
Lifetime Estimation service
immediately!

Use **Corporate credit card**, or pay with **WeChat** and **Alipay**.
You will receive an official invoice for reimbursement purposes.

Infineon

Copy Page 1 of 2 Pages

Invoice No. 4081570

Invoice Date: 15.07.2021

Invoice To: [Redacted]

Invoice From: Infineon Technologies AG

Invoice Description: IPOSIM Lifetime Estimation Service

Invoice Amount: €90.00

Invoice Currency: EUR

Invoice Status: [Redacted]

Invoice Reference: [Redacted]

Invoice Date: 15.07.2021

Invoice To: [Redacted]

Invoice From: Infineon Technologies AG

Invoice Description: IPOSIM Lifetime Estimation Service

Invoice Amount: €90.00

Invoice Currency: EUR

Invoice Status: [Redacted]

Invoice Reference: [Redacted]

Item	Description of Goods/Service	Quantity	Unit Price	Price Unit	Net Price	Currency
10	Subscription fee for 1 Lifetime Estimation	1	PC	UPC		EUR

Carried Forward

Infineon

Your subscription was successful

You are now subscribed to IPOSIM Lifetime Estimation service

Subscription date: 06/08/2021

Your subscription:

Service: IPOSIM Lifetime Estimation Service

Summary:

Subscription fee: €90.00

Subscription currency: EUR

Subscription status: [Redacted]

Subscription reference: [Redacted]

Subscription date: 06/08/2021

Subscription to: IPOSIM Lifetime Estimation Service

Subscription amount: €90.00

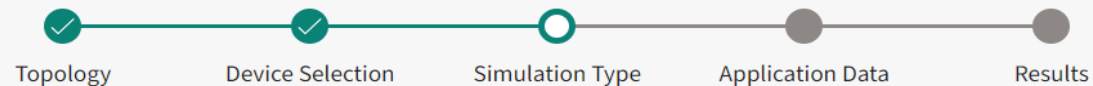
Subscription currency: EUR

Subscription status: [Redacted]

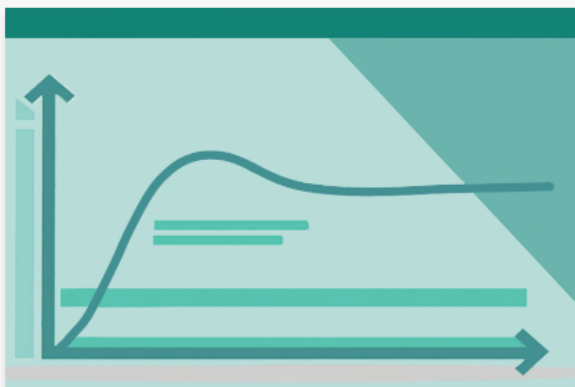
Subscription reference: [Redacted]

Free Trial Subscription

(Step-by-Step)

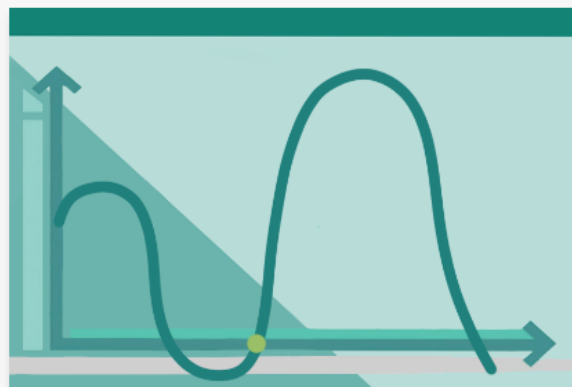
[← Back](#)

[Next →](#)

Simulation Type



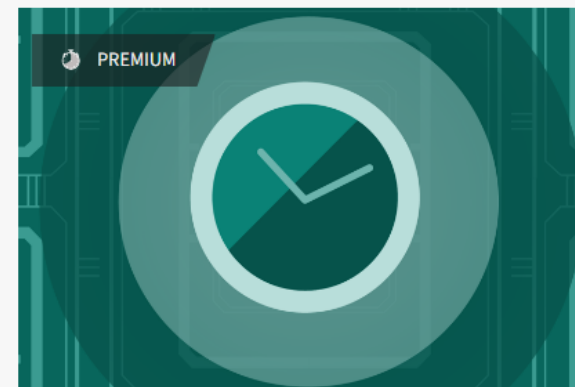
Steady-State

Power and thermal calculations at a **single operating point**.



Load cycle

Power and thermal calculation for **changing operating conditions**.



Lifetime Estimation

Expected **lifetime calculation** based on chosen parameters.

[Learn more about Lifetime Estimation...](#)

[Learn More](#)
[Get your free trial](#)

[← Back](#)

✓
Topology

✓
Device Selection

○
Simulation Type

●
Application Data

●
Results

[Next →](#)

Lifetime Estimation Service

This new premium IPOSIM service enables you to digitally estimate the lifetime of Infineon power modules in your application.



Simply select the Infineon power module of interest and upload your desired mission profile. IPOSIM will perform the lifetime estimation, using algorithm and models based on Infineon's unique device knowledge and decades of experience performing such estimations.

Results are delivered to you as a PDF report, including the possible number of cycles for the selected device.

Service available for the following topologies:

- Dual Active Bridge (Single Phase)
- CLLC (Single Phase)
- LLC (Single Phase)
- Single Phase (Module)
- Three Phase - 2 Level (Module)
- Three Phase - 2 Level (Automotive Module)
- Three Phase - 3 Level NPC1 (Module)
- Three Phase - 3 Level NPC2 (Module)
- Three Phase - 3 Level ANPC (Module)
- More to come

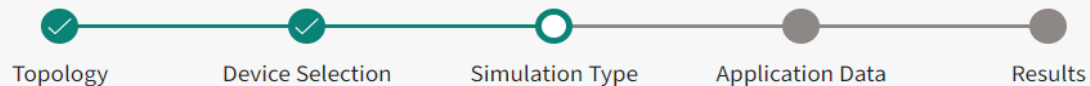
Unique
Infineon's unique semiconductor expertise at your fingertips.

Fast
Save time and effort with our fully automated online simulation.

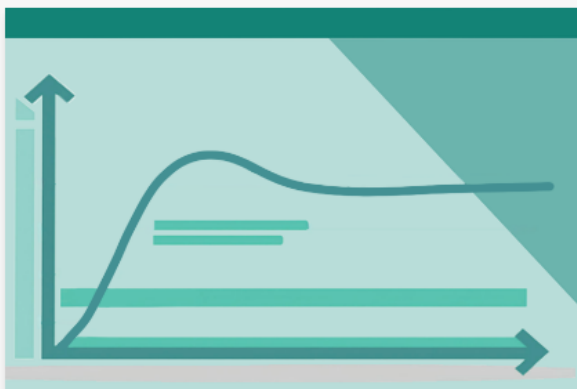
Configurable
Simulate with your specific load profile, both short and long profiles available.

[Report Sample →](#) [User Manual →](#)

[Close](#)
[Show plans >](#)

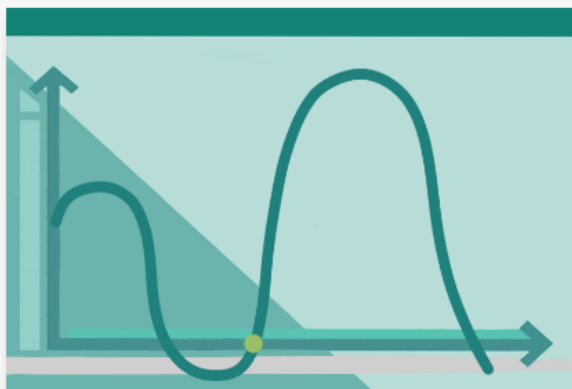
[← Back](#)

[Next →](#)

Simulation Type



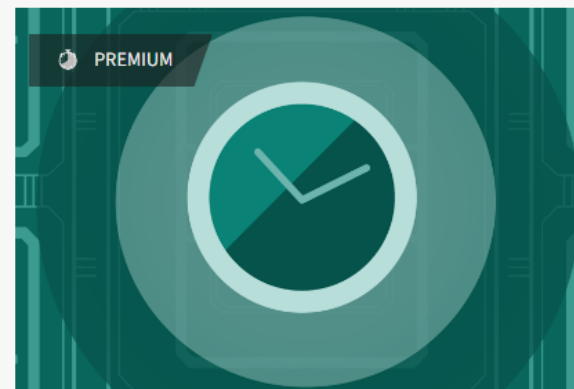
Steady-State

Power and thermal calculations at a **single operating point**.



Load cycle

Power and thermal calculation for **changing operating conditions**.

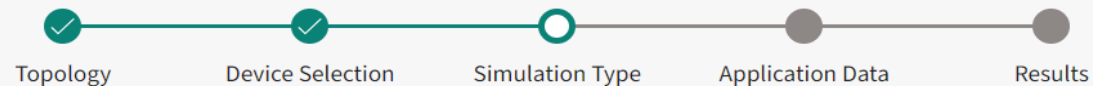


Lifetime Estimation

Expected **lifetime calculation** based on chosen parameters.

...or jump directly to the
LTE free trial activation

[Learn More](#)
[Get your free trial](#)

[← Back](#)

[Next →](#)

Subscription Plan

Select the Lifetime Estimation plan that works for you

1 Lifetime Estimation	5 Lifetime Estimations	10 Lifetime Estimations
<ul style="list-style-type: none"> Highest flexibility Valid for 3 months No automatic renewal 	<ul style="list-style-type: none"> Most popular Valid for 3 months No automatic renewal 	<ul style="list-style-type: none"> Best value Valid for 3 months No automatic renewal
<p>€90.00 €0.00 Selected</p>	<p>€405.00 Select</p>	<p>€765.00 Select</p>

Select the first option to try LTE for free*
(1 LTE simulation, valid for 3 months)

Prices do not include taxes.

Simulations included in the selected subscription plan are accessible only within the validity period.

Validity period of the plan begins on the day of the subscription.

[Cancel](#)
[Continue >](#)
[Terms](#) [Imprint](#) [Privacy](#)

*If you cannot see this option, it means that you have previously activated LTE free trial with your Infineon account.
If this is not the case, please contact us for support.

[← Back](#)


Topology



Device Selection



Simulation Type



Application Data



Results

[Next →](#)

Billing Information

Please enter your billing information



No payment method required

You won't be billed, this information will be used for processing your free trial.

Infineon profile

Please validate that the following information is accurate.
If a change is needed, please press " " and a new window will open where you can edit your profile.
Please save the changes and close the window to continue.

First name

Last name

Corporate e-mail address

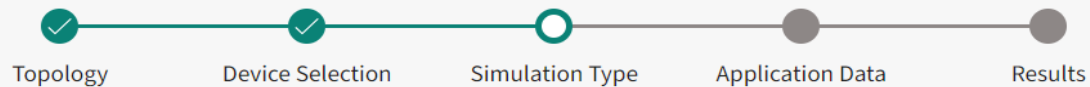
Registered company name

Please make sure it's the registered company name (e.g. Infineon Technologies AG).

[✎ Modify profile](#)
[Cancel](#)
[Continue >](#)

1) Modify your profile, if necessary. Remember that you will need a corporate account to activate LTE .

2) Fill in the required information and click "continue"

[← Back](#)

[Next →](#)

Simulation Type

Account Activation

To subscribe to our simulation plans, your account must be activated.



Account activated

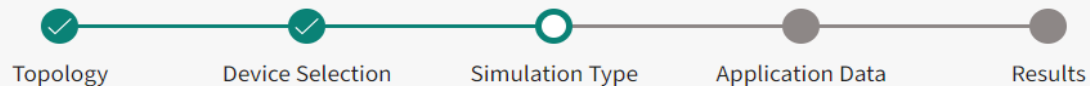
You can now proceed to the next step.

Step 3 of 4

Power
operation

[Cancel](#)
[Continue >](#)
[Terms](#) [Imprint](#)

Back



Next

Payment

Please validate your order before proceeding.

Billing Information

First name
Last name
Corporate e-mail address
Registered company name

Products	Price
IPOSIM Lifetime Estimation Service - 1 week (up to 1 simulation) - FREE TRIAL	€0.00
Value Added Tax	€0.00
Subtotal	€0.00
Total	€0.00

☒ I agree to the [Terms and Conditions](#).

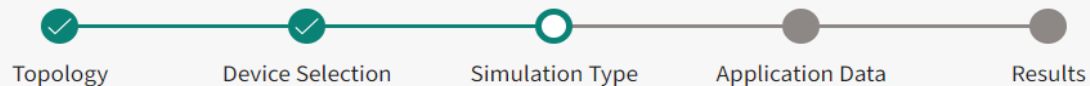
i You will find detailed information regarding the processing of your personal data in our [Privacy Policy](#).

Cancel

Start Trial

We do not require any payment method to book the free trial.

Start your free trial.

[← Back](#)

[Next →](#)

Simulation Ty

Summary



Free Trial activated

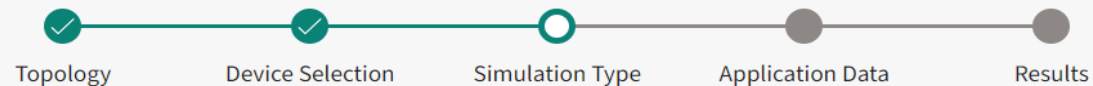
Thank you for subscribing to IPOSIM (lifetimeEstimationService).
 You can now use up to **1** Lifetime Estimation simulations from **Aug 13, 2024** until **Aug 20, 2024**.
 In the upcoming days you will receive the correspondent invoice via e-mail.

To learn more about Lifetime Estimation Service go to [User Manual](#) or visit our [Infopage](#).

[Finish >](#)

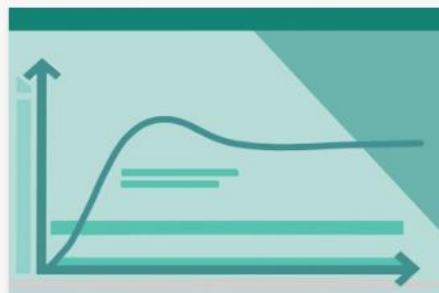
Finish the subscription process

Back



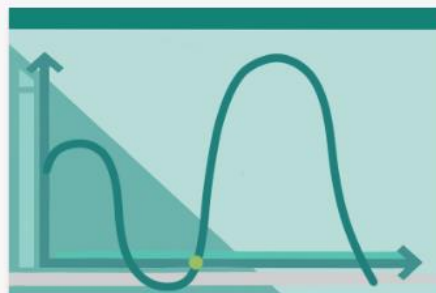
Next

Simulation Type



Steady-State

Power and thermal calculations at a **single operating point**.



Load cycle

Power and thermal calculation for **changing operating conditions**.



Lifetime Estimation

Expected **lifetime calculation** based on chosen parameters.

[Learn More](#)

Aug 21, 2024 | 0 / 1

Here you should now find the validity of your free trial.


Table of contents


1	What is Lifetime Estimation Service (LTE)	3
2	Where to find it	7
3	How to activate LTE	10
4	Support	22



Support



For support and questions visit: www.infineon.com/support



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Company COVID-19-Update Cypress acquisition Our Divisions Management Board Supervisory Board Our Locations Procurement Quality Infineon Awards Cybersecurity

> Home > About Infineon > Company > Contacts > Support

Support Page

Support is available in English, German and Mandarin from our talented team of experts.

Find an answer to your question

IPOSIM 

Limitations of IPOSIM

Open "About" on the top right Menu bar. This shows you the limitation of every release. (Refer [screenshot](#))


Why is IPOSIM unstable? It was working before.


After a new release you have to reset your browser cache: Press keyboard combination Ctrl+F5 Goto Browser -> Settings -> Delete History & cache Restart your Browser


Design-in support


We offer design-in support for your application. You can use our Infineon Solution Finder: <https://www.infineon.com/solutionFinder> Here you select the relevant parameters of your application and narrow down your choice accordi...

[+ Read more](#)

 Write to the Technical Assistance Center

 Call us toll-free or request a call back

 Live chat with our Support Center

 Ask our community for support in the forum

