

# Infiniteon Toolbox - Introduction



Digital Platforms Product Owner Software & Tools  
2020-10-20



# Agenda

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1

Infineon Toolbox Overview

2

How To Start Online Tools

3

How To Start Offline Tools

4

Board Registration With Demo

5

Summary & Outlook

# Agenda

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1

**Infineon Toolbox Overview**

2

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# App Store for online & offline tools, board & project registration



<https://softwaretools.infineon.com>

1. Explorer online & offline tools



2. Register projects & boards



3. Check out details under My Space



4. Install Toolbox launcher for advanced features



Welcome to Infineon Toolbox!

First Steps

1 To get started with your evaluation, please register your received board.

2 Start your evaluation with all required resources.

3 Install our Toolbox Launcher to get easy access to all required tools.

Where to find what?

To support you during the evaluation of your board, Infineon Toolbox provides you two main sections:

1. Tools: here you will find all tools which are getting offered by Infineon for the evaluation
2. Projects: here you will find all your evaluation projects with all required information.

Toolbox Hints

Infineon Toolbox Launcher

Your local client to manage all Infineon tools locally. Additionally, you will receive notifications and updates by using the [Infineon Toolbox Launcher](#).

My Space

Manage and share all your registered boards and get easy access to all required resources.

All Tools

Overview for all available online and offline Infineon tools.

# How to access?

## Google for Infineon Toolbox



Infineon Toolbox

infineon.com/cms/en/tools/landing/infineontoolbox.html

Apps copy-paste.tsc - Inf... Semiconductor & S... IR3887\_16\_StartUp... IR3826\_analog\_12V... IR3888\_V1-power-l... atv\_dcdc\_buck\_TLS...

infineon

All Search

Newsletter Contact Where to Buy English myinfineon Cart

Products Applications **Tools** About Infineon Discoveries Careers

> Home > Tools > Infineon Tools

Start here >

Welcome to Infineon Toolbox

Click on Start here > to Toolbox Online

Download Getting Started Infineon Toolbox Guide  
04\_01 | Oct 21, 2019 | PDF | 1.14 mb

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---

1

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2

How To Start Online Tools

3

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# Toolbox online: app store for all tools

## <https://softwaretools.infineon.com/tools>



### 1. Explorer online & offline tools

1  
My Space Tools

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##### My Space

Manage and share all your registered boards and get easy access to all required resources.

##### All Tools


Overview for all available online and offline Infineon tools.


1. Search for “online”



2. Click Open to start online tool, e.g. Infineon Designer

Toolbox Online



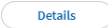




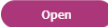





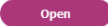


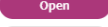

1 online 

Technical Support 

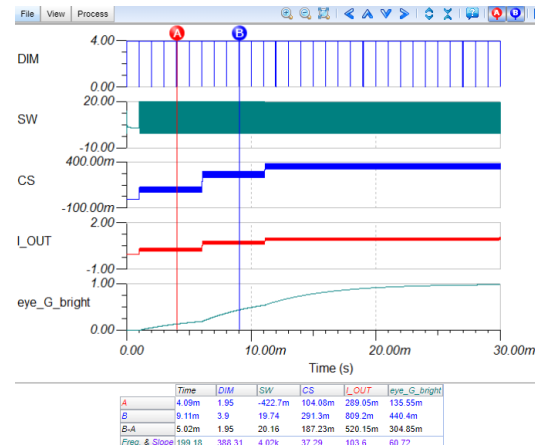
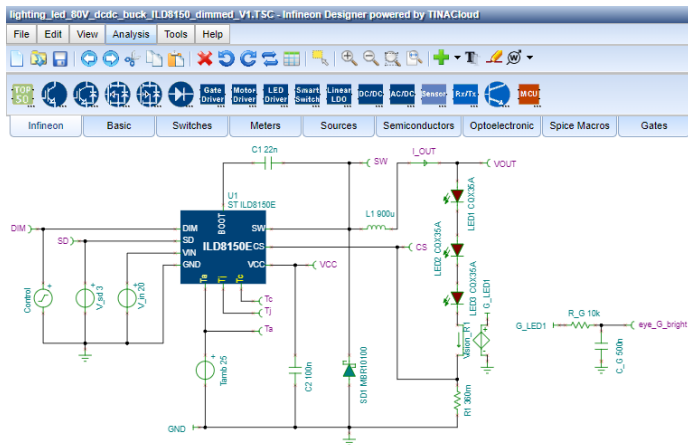
My Space Tools

10+ online tools available now

# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

#		<b>3D Magnetic Design Tool</b> XENSIV™ Sensor online simulation tool offering accurate three-dimensional sensing of the Infineon 3D magnetic Hall sensors products.	Tags: Anglemeasurement, linearposition...	 
H		<b>HallDesk: Magnetic Hall Switch Simulation Tool</b> XENSIV™ Sensor online simulation tool offering an accurate simulation of the magnetic field and the switching behavior of all Infineon Hall switch sensor products.	Tags: Magneticfield, HallDesk, HallSwitch	 
I		<b>IPM 3-phase Inverter Simulator</b> CIPOS™ IPM online simulation tool of power loss and junction temperature of a 3-phase Inverter topology (PLECS).	Tags: IPM, 3-Phase, Inverter	 
		<b>IPOSIM</b> IPOSIM is the online power simulation program for loss and thermal calculation of Infineon power modules and disk devices.	Version: 1.0.0.202001161109 File size: 0.02 MB Tags: IPOSIM, IGBT, Bipolar, Simulation, ...	 
		<b>Infineon Designer (SPICE)</b> Online prototyping engine combining analog (SPICE) and digital simulation functionalities in an internet application.	Tags: Prototyping, SPICE, TINA	2  
S		<b>Solution Finder</b> An easy to use online tool for finding, comparing and buying semiconductor products in an application context visualized by block diagrams and combined with electrical and thermal simulations.	Tags: PowerSupply, SMPS, LED, DC-DC, P...	 





## Key Features

- › Accurate transient and system efficiency simulation powered by TINA Cloud SPICE engine
- › Full-featured circuit editor with Infineon SPICE library for free
- › Export to Altium PCB design and export of the BoM (Bill of Materials)
- › Fast parameter configuration with design tool for better evaluation experience
- › Digital/analog co-simulation (e.g. Microcontroller code debugging combined with analog circuit simulation)
- › About 580 application circuits (lighting, power supplies, motor control, computing DC-DC PoL, etc.)

# Infineon Designer – Online SPICE simulation engine

## 12V Automotive motor control based on Embedded Power Full Bridge Driver TLE986x/TLE987x

1. Open the circuit above



2. Click “Simulate Transient” to start



3. Check results with measurement tools



4. Open configuration tool to change parameters

1. Wanna try it out? Click on simulate
2. Click on circuit components to change
3. If you like what you see, buy online
4. Enjoy other circuits

2

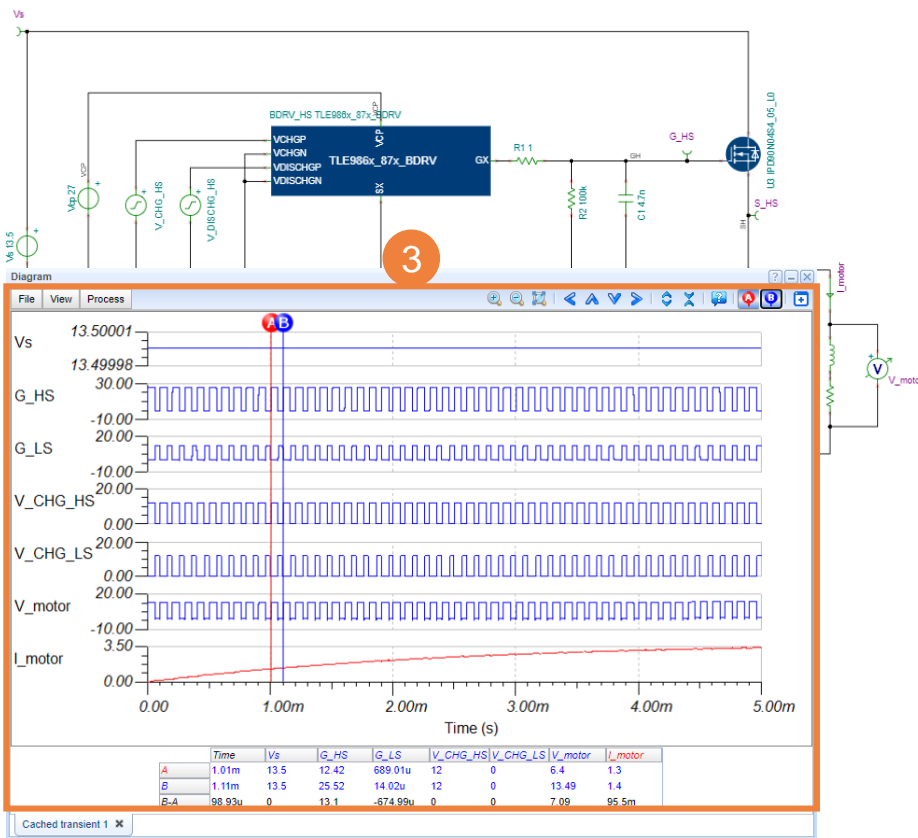
Simulate Transient

Reset circuit

( Please double click here to enter design criteria )

```
{ Supply voltage [V] }
VS := 13.5;
{ Charge pump voltage [V] }
VCP := 27;
{ Register value }
ICHARGE_Trim := 12;
{ Register value }
IDISCHARGE_Trim := 10;
{ PWM Frequency [Hz] }
Frequency := 10k;
{ PWM Duty Cycle in % }
Duty_Cycle := 60;
{ Time between switching HS OFF and LS ON [us] }
DeadTime := 2u;
```

4



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1

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2

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# Install Toolbox Launcher: only **once**

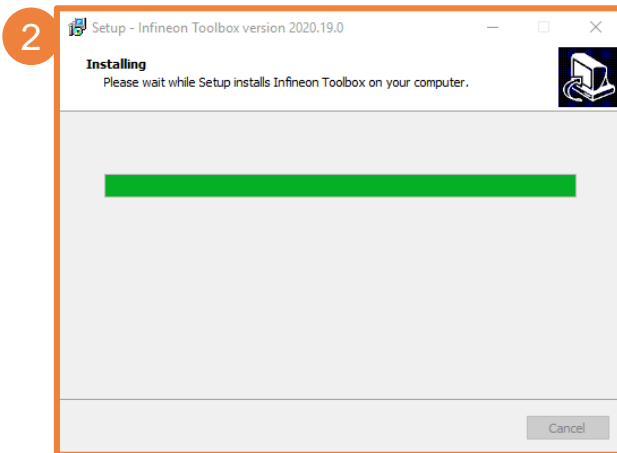
[www.infineon.com/toolbox](http://www.infineon.com/toolbox)

1. Download toolbox  
launcher (\*.exe file)



2. Install the launcher only  
**once**

Download link: [click here](#)



# Offline Tools: Overview



<https://softwaretools.infineon.com/tools>

1. Find your tool, e.g.  
Power Dissipation Tool



2. Click “Install” to open  
Toolbox launcher \*

Toolbox Online






online  Technical Support  myInfineon

My Space Tools

40 offline tools available now

# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

P

	<b>Position2Go Kit</b> Position2Go Kit consists of three tools for Position2Go application: Getting Started, Radar GUI and XMC Flasher. By installation of Position2Go Kit the other two tools are also installed in parallel.	Version: 1.0.4.202007091308 File size: 65.18 MB Tags: PMM, Position2GoKit, RF, Radar, B...	<a href="#">Install</a> <a href="#">Details</a>
	<b>PowIRCenter</b> GUI to communicate with Acadia, Acadie, Baxter, Comanche, Katahdin, Lucas, Manhatta, Rocky, and Salem devices. NOTE: installation of this tool requires administration right.	Version: 1.0.7369.202003090800 File size: 24.84 MB Tags: PowIRCenter, PowerCenter, GUI, P...	<a href="#">Install</a> <a href="#">Details</a>
	<b>Power Dissipation</b> This tool allows the user to calculate the power dissipation of a selected device and if applicable then of external power devices	Version: 2.2.5.202001090159 File size: 3.17 MB Tags: PowerDissipation, ApplicationEng...	<a href="#">Install</a> <a href="#">Details</a>
	<b>Power Shift Dimensioning</b> The Power Shift Dimensioning tool calculates the external resistors needed for the Power Shift feature of the LITIX(TM) Basic+ TLD1114-1EP based on the system requirements and the selected NMOS.	Version: 1.0.2.202005191214 File size: 2.2 MB Tags: Power, shift, dimensioning, tool, lit...	<a href="#">Install</a> <a href="#">Details</a>
	<b>PowerClient</b> GUI to communicate with Malibu, Sierra, Sequoia and Tahoe devices. NOTE: installation of this tool requires administration right.	Version: 1.0.7440.202005151527 File size: 46.92 MB Tags: PowerClient, GUI, PMM, CDCMulti...	<a href="#">Install</a> <a href="#">Details</a>

\*Note: Toolbox launcher (offline) needs to be installed

# Offline Tools: Installation

<https://softwaretools.infineon.com/tools>

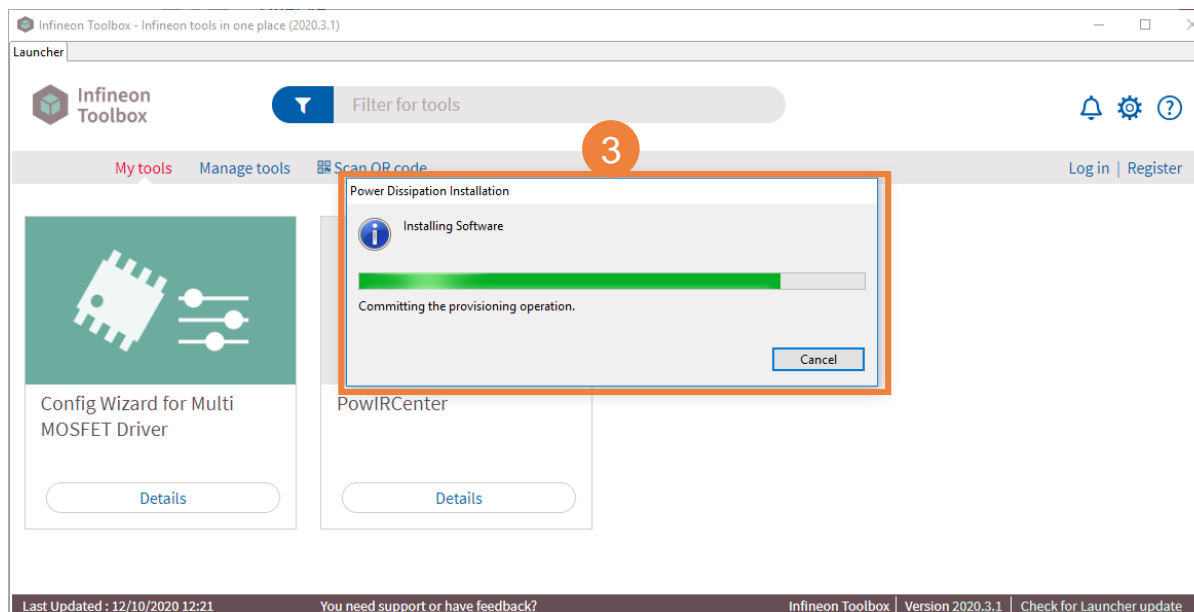
1. Find your tool, e.g.  
Power Dissipation Tool



2. Click "Install" to open  
Toolbox launcher \*



3. Follow the steps to  
install the tool



\*Note: Toolbox launcher (offline) needs to be installed

# Offline Tools: Start tool from Toolbox launcher

<https://softwaretools.infineon.com/tools>



1. Find your tool, e.g.  
Power Dissipation Tool



2. Click "Install" to open  
Toolbox launcher \*



3. Follow the steps to  
install the tool



4. Open the tool from  
Toolbox launcher

\*Note: Toolbox launcher (offline) needs to be installed

The screenshot shows the Infineon Toolbox launcher window with three tool cards: 'Config Wizard for Multi MOSFET Driver', 'Power Dissipation' (highlighted with an orange box and a '4' in a circle), and 'PowIRCenter'. Below the launcher, the 'Power Dissipation Tool' interface is shown. It features a pie chart of power dissipation, a table of power components, a circuit diagram of a MOSFET driver, and junction temperature and gate charge graphs.

**Power Dissipation**

Sym	Name	Power	Percentage
■	Cg Pump	0.36 W	41.4%
■	Gate Drv	0.25 W	28.7%
■	Internal	0.26 W	29.9%

**Total Chip Power Dissipation: 0.87 W**

**Power Dissipation Tool**

Embedded Power IC: TLE986x

Power Dissipation

File Select Chip Family Reset Chip

$V_s = 13\text{ V}$   
 $I_{vs} = 21\text{ mA}$

Add. Capacitance Drain = 1 nF

Add. Capacitance Source = 5 nF

LIN

Junction Temperature

nom. 53 °C max. 98 °C

Gate Charge

100 nC

0 nC

58 nC

Two MOSFETs are activated at the same time but only one is represented.

Chip Parameter

$T_{a\_nom} = 25\text{ °C}$   
 $T_{a\_max} = 70\text{ °C}$   
PWM Freq. = 20 kHz

$R_{th\_ja} = 33\text{ K/W}$   
**Gate Charge = 58 nC**

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---

1

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2

How To Start Online Tools

3

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4

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5

Summary & Outlook



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2. Register projects & boards

My Space Tools

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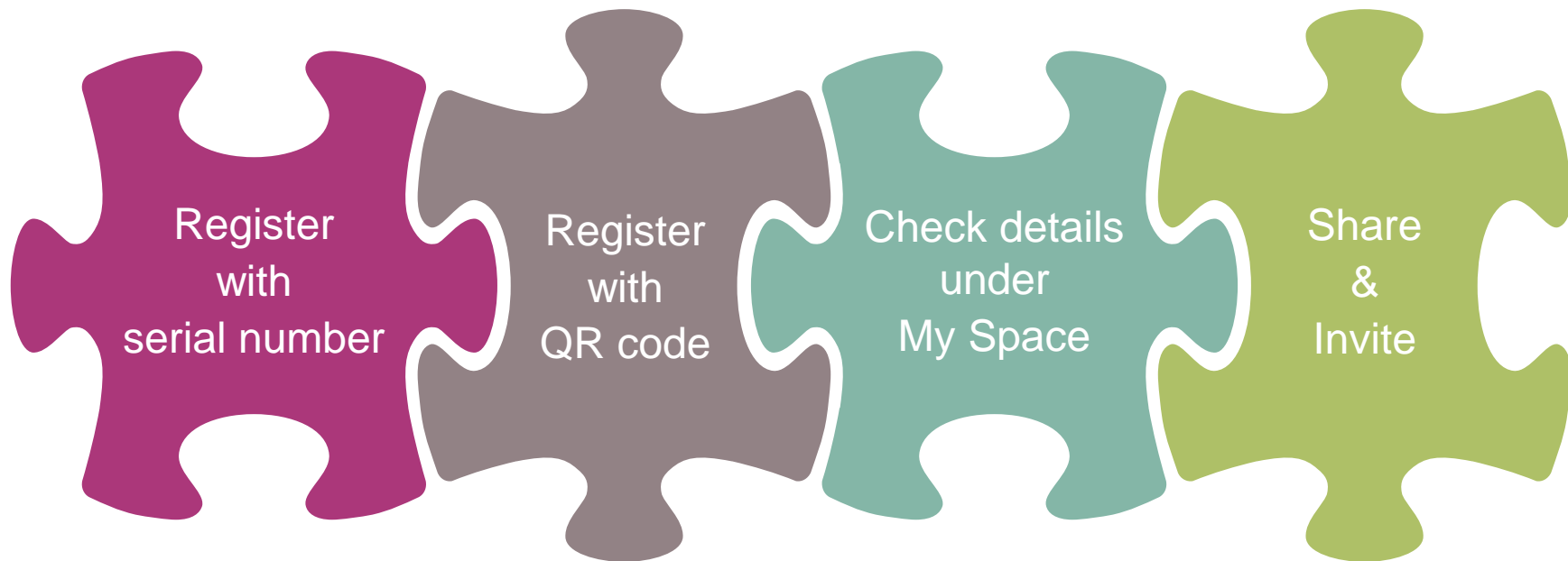
My Space

Manage and share all your registered boards and get easy access to all required resources.

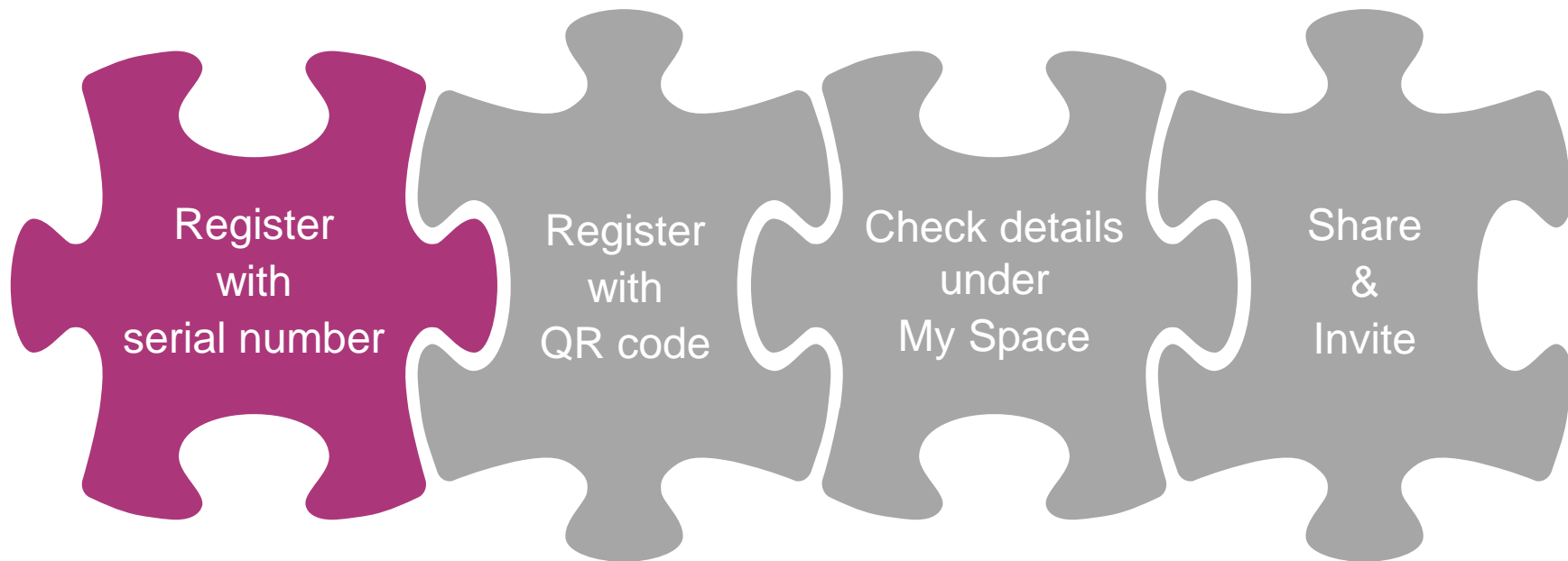
All Tools

Overview for all available online and offline Infineon tools.

## Board / Project Registration



## Board / Project Registration



# Register evaluation board / project with serial number

<https://softwaretools.infineon.com/projects/create>



1. Click on Enter Serial Number



2. Enter project info, e.g. TLE9869 EVALKIT



3. Click on Register Product

## Toolbox Online

Technical Support

My Space Tools

### Register Your Product

In order to register your product, please select whether you have a serial number or a QR code.

1

Enter Serial Number >



Have a look on your evaluation board for your serial number or board name.

Scan QR Code >



Use your webcam to scan the QR code on the packaging of your evaluation board.

2

### Create a project to register your product

Product Name:

TLE9869 EVALKIT

☒ If you do not have a serial number, tick the box and enter the product name.

Project Name:

TLE9869 EVALKIT

FAE Contact (optional):

max.mustermann

@infineon.com

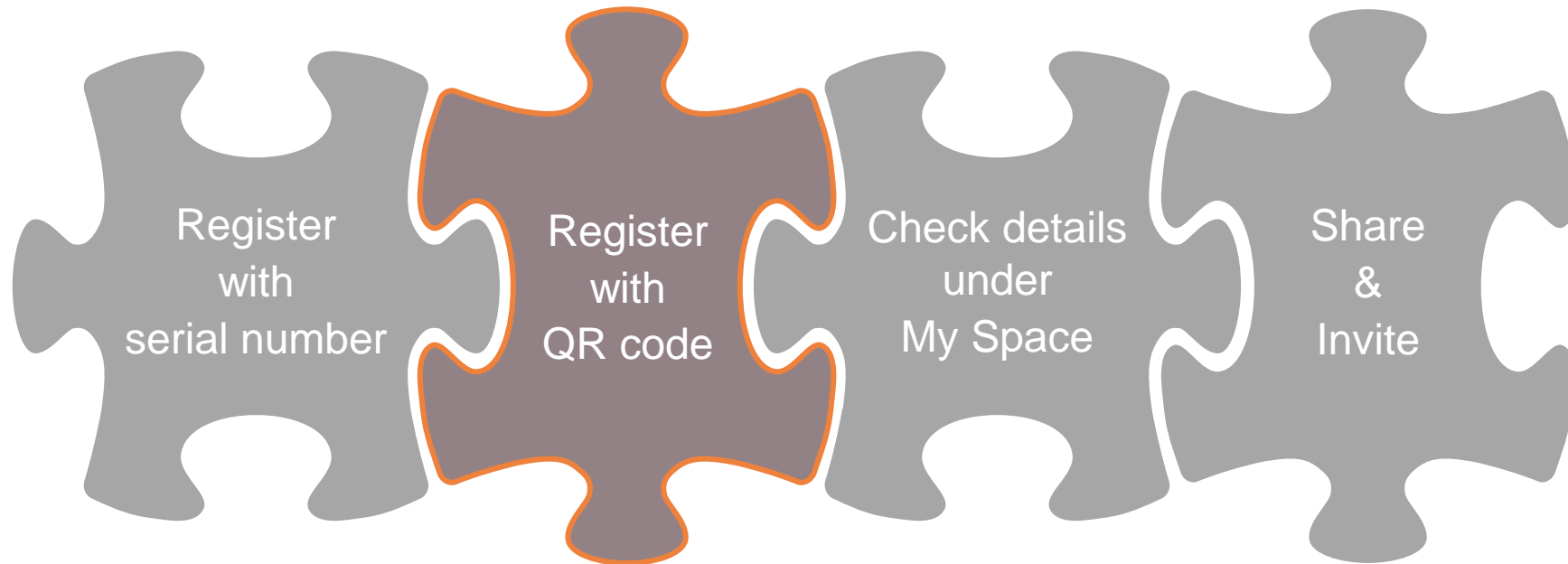
The project name is set to the product name by default. Feel free to change it!

3

Register Product

Information regarding the processing of your personal data can be found in our [privacy policy](#).  
Register your product to create your personal space. This grants you easy access to all required resources for your design-in (getting started, tools, documents, etc.).  
You will receive additional notifications via mail regarding your registered product.

## Board / Project Registration



# Register evaluation board / project with QR code

<https://softwaretools.infineon.com/projects/create>

1. Click on Scan QR Code



2. Scan the QR code with your webcam



3. Check content & click on Register Product



4. myInfineon connects with registered boards

## Toolbox Online

My Space Tools

Register Your Product

In order to register your product, please select whether you have a serial number or a QR code.

Enter Serial Number >



Have a look on your evaluation board for your serial number or board name.

Scan QR Code >



2



# Infineon Toolbox

Use your webcam to scan the code

4

myInfineon dashboard sidebar

Your registered products:



TLE9879 EVALKIT

Description:

Technical Support

Infineon

3

My Space Tools

Create a project to register your product

Serial Number or Product Name:

00000010

Enter either the serial number or the name of your product.

Project Name (optional):

TLE9879 EVALKIT

You can give your project its own name. By default, the project name is set to the name of your product.

FAE Contact (optional):

max.mustermann

@infineon.com

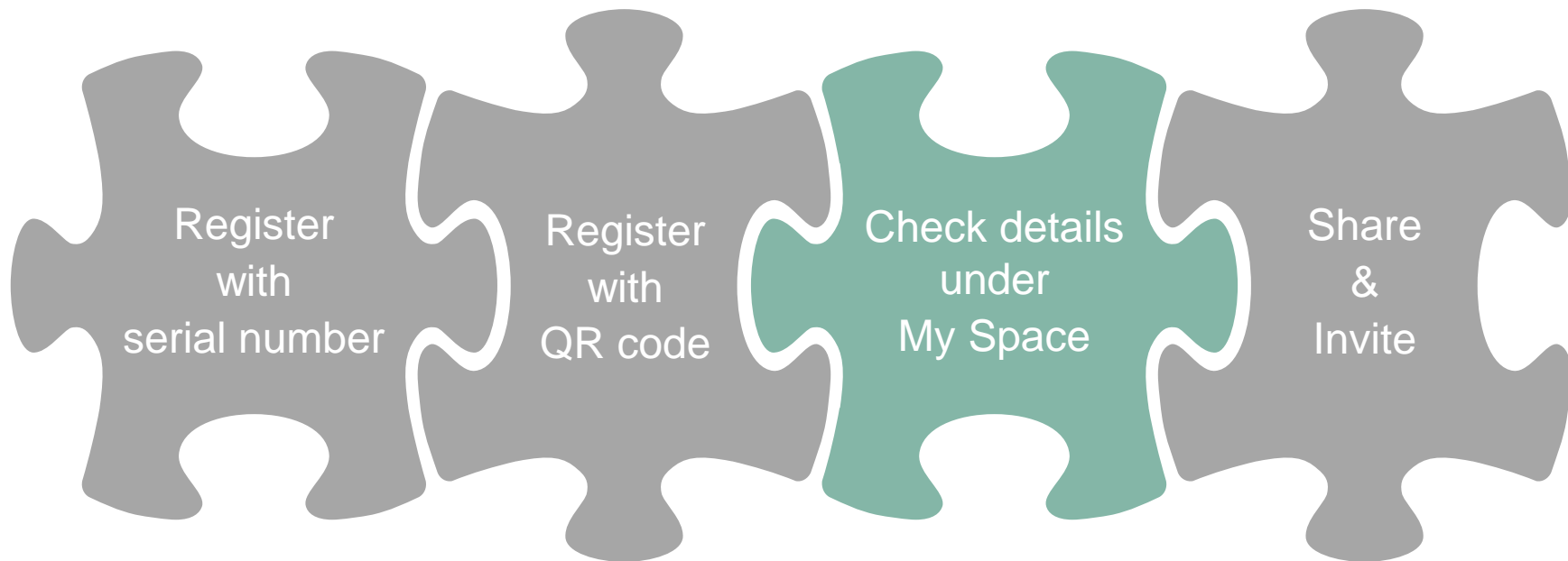
Here you can enter the e-mail address of a Field Application Engineer (FAE). The FAE will help you to achieve your goals with your Infineon product.

Register Product

Information regarding the processing of your personal data can be found in our [privacy policy](#).

Register your product to create your personal space. This grants you easy access to all required resources for your design-in (getting started, tools, documents, etc.). You will receive additional notifications via mail regarding your registered product.

## Board / Project Registration



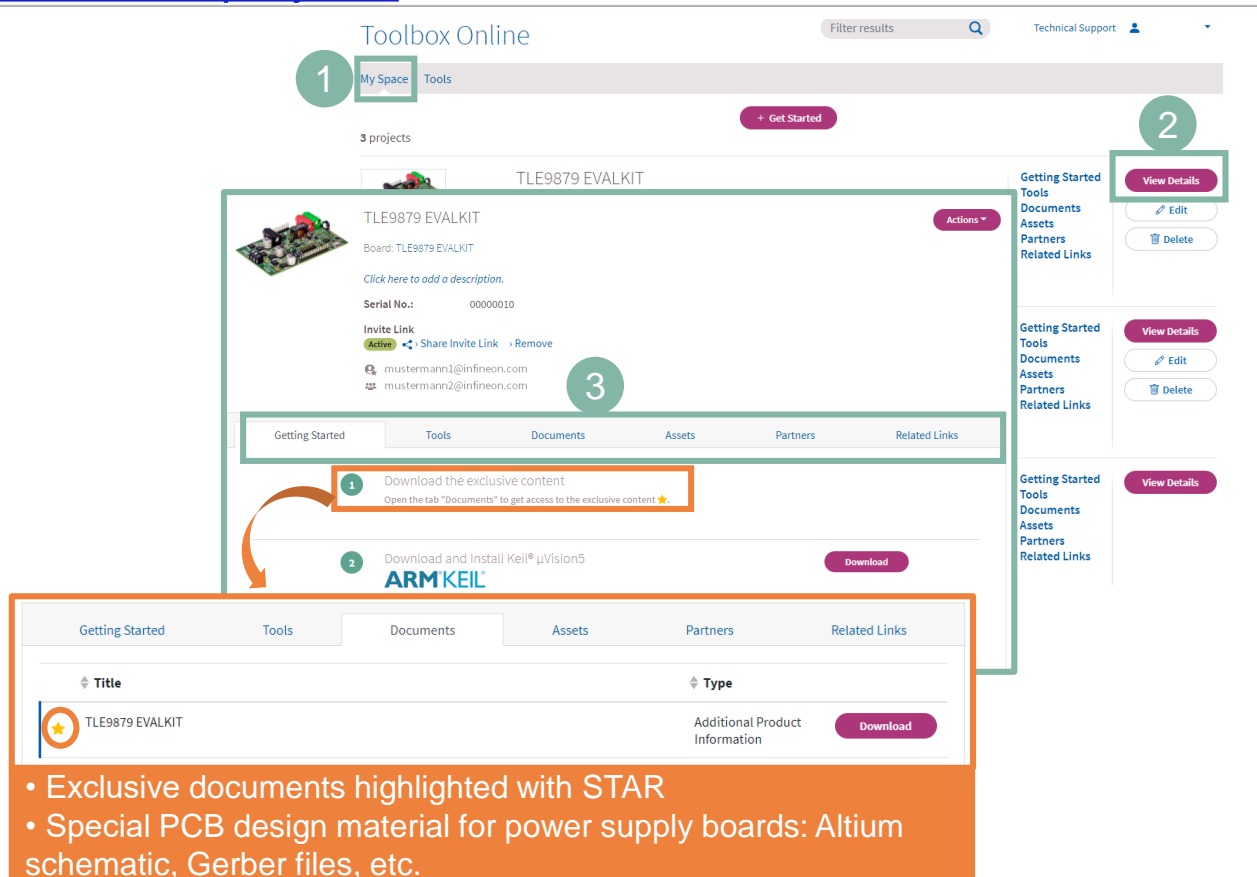
# Check board / project details under My Space

<https://softwaretools.infineon.com/projects>

1. Open My Space

2. Click View Details

3. Check out materials related to the project / board: getting started, tools, uploaded files, etc...



Toolbox Online

Filter results 🔍 Technical Support

1 My Space Tools

3 projects

TLE9879 EVALKIT

Board: TLE9879 EVALKIT

Click here to add a description.

Serial No.: 00000010

Invite Link: **Active** Share Invite Link Remove

mustermann1@infineon.com

mustermann2@infineon.com

2 View Details Edit Delete

Getting Started Tools Documents Assets Partners Related Links

1 Download the exclusive content  
Open the tab "Documents" to get access to the exclusive content.

2 Download and Install Keil® µVision5  
**ARM KEIL** Download

Getting Started Tools Documents Assets Partners Related Links

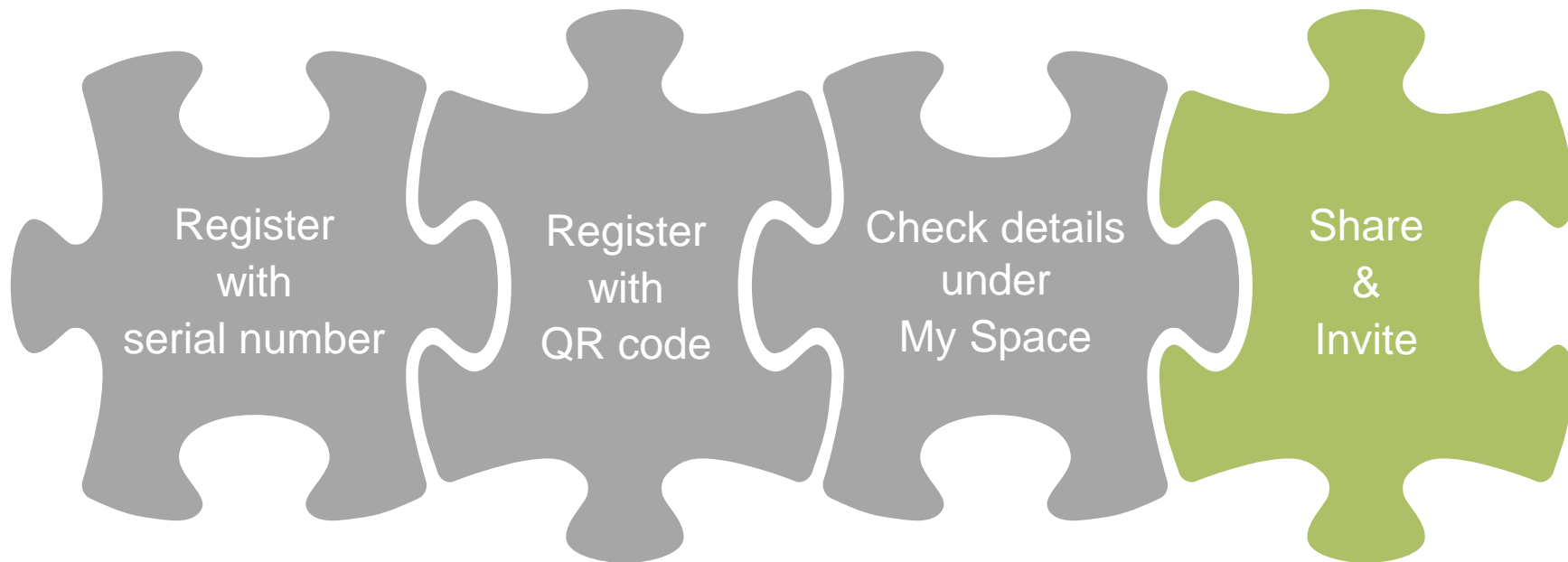
1 Title Type

2 TLE9879 EVALKIT Additional Product Information Download

- Exclusive documents highlighted with STAR
- Special PCB design material for power supply boards: Altium schematic, Gerber files, etc.



## Board / Project Registration



# Share project files & invite new project member

<https://softwaretools.infineon.com/projects>



1. Open My Space >>  
View Details



2. Click on Action >> Invite  
or share with link



3. Uploaded files in Assets  
can also be shared via  
invitation

The screenshot displays the Infineon software tools interface for a project named "TLE9879 EVALKIT". The interface includes a sidebar with navigation options: Getting Started, Tools, Documents, Assets, Partners, and Related Links. The main content area shows the project details, including a board image, board name, serial number, and an "Invite Link" section. The "Invite Link" section is highlighted with a green box and a green circle with the number 2. The "Invite Link" section shows the link is active and provides a "Share Invite Link" button. Below the link, two email addresses are listed: mustermann1@infineon.com and mustermann2@infineon.com. A green callout box with the number 2 states: "Invitation password is valid with limited time." To the right of the project details, an "Actions" dropdown menu is shown, with the "Invite" option highlighted. Below the project details, the "Assets" section is visible, showing a list of available assets. The "Assets" section is highlighted with a green box and a green circle with the number 3. The "Assets" section includes a table with columns for asset name, size, and actions (Download and Delete). The table lists five assets, all of which are simulation models or user manuals for the TLE9879 EvalKit.

Asset Name	Size	Download	Delete
Infineon-TLE986x-7x-CSA-OrCAD-SimulationModels-v01_01-EN.zip	0.91 MB	Download	Delete
Infineon-TLE986x_7x_BDRV-Saber-SimulationModels-v01_00-EN.zip	0.52 MB	Download	Delete
Infineon-TLE986x-7x-CSA-Saber-SimulationModels-v01_01-EN.zip	0.54 MB	Download	Delete
Infineon-TLE986x-7x-CSA-SIMatrix-SimulationModels-v01_01-EN.zip	0.9 MB	Download	Delete
Infineon-TLE9879_EvalKit-UserManual-v01_03-EN.pdf	3.27 MB	Download	Delete

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1

Infineon Toolbox Overview

2

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3

How To Start Offline Tools

4

Board Registration With Demo

5

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# Summary & Outlook

## App store for all online & offline tools

- › Online tools (10+): Infineon Designer, IPOSIM, Solution Finder, IPM power simulation tools, etc.
- › Offline tools (40+): RadarGUI, PowerIRCenter, XMCFlasher, etc.

## Project / board registration

- › With Serial Number
- › With QR code

## Project / board sharing

- › Invite additional project member
- › Share project assets

## App store for all software & services

- › Store for license management
- › Store for service management



Part of your life. Part of tomorrow.