



RUTRONIK TECHTALK  
**MEETS**  
GATE DRIVER

April 13 + 26 , 2021 | online



## TAKE THE DRIVER'S SEAT

Rutronik presents the Gate Driver's Day together with Infineon.

Every Switch Needs A Driver. MOSFETs, IGBTs and new Technologies like Silicon Carbide, Gallium Nitride, they all need drivers. Fast and slow switched applications however need a different type of driver, due to dynamic switching behaviours. Low voltage and high voltage applications, different output currents and topologies of the drivers themselves pose a great challenge for the engineers, when it comes to selecting the right component from the broad product range available on the market.

On two days, the experts from Infineon, Recom and Rutronik will bring you the knowledge to select the right gate driver for your application.

Together we will answer these key questions for your:

- What important parameters have to be considered?
- What different technologies of gate drivers are available and how do they differ?
- How to choose the right driver for your switch?
- What's to consider in your design in general?
- What design and selection tools are available from Infineon, and how to use them?

The experts from Rutronik, Infineon and Recom are looking very much forward to presenting their knowledge and solutions around the topic of drivers to you.

## EDUCATION AND NEW PRODUCT INTRODUCTION DAY

Schedule		Supplier/Topic	Presenter
09:00 – 12:00	09:00 – 09:40 Lecture 09:40 – 09:55 Q&A	<p><b>INFINEON</b></p> <p><b>One-stop-shop: Infineon the universal gate driver supplier</b></p> <p>Infineon offers all technologies of gate drivers: isolated drivers, level shifters and non-isolated driver ICs. This session introduces into the Infineon portfolio and explains the relevant driver IC technologies with respect to their relevant figures of merit.</p>	<p><b>Davide Giacomini</b> (Director Product Marketing /Gate Driver Systems – Industrial Power Control)</p>
	10:00 – 10:40 Lecture 10:40 – 10:55 Q&A	<p><b>INFINEON</b></p> <p><b>Where to start for a gate drive circuit design?</b></p> <p>Gate-drive circuit design is a crucial topic in power electronics. Amongst others, it can be strongly relevant for the lifetime fulfillment of converters. This session explains where to find the data for the gate-drive circuit and which lab evaluations are helpful to prove a healthy design. The session also looks behind the scenes of gate-drive ICs in terms of topological differences and their influences in the application.</p>	<p><b>Dr. Wolfgang Frank</b> (Lead Principal Gate Driver ICs)</p>
	11:00 – 11:40 Lecture 11:40 – 11:55 Q&A	<p><b>INFINEON</b></p> <p><b>Find your favourite design and selection tool on <a href="http://www.infineon.com">www.infineon.com</a></b></p> <p>Infineon offers a large variety of design and selection tools. They range from on-line product finders to widgets placed on our power transistors webpages and on-line and off-line simulation tools. They are complemented by selection guides and brochures for free download. This session gives you an overview on the available tools and guides you through the Infineon toolHandscape by means of on-line demonstrations.</p>	<p><b>Olaf Bendix</b> (Application Engineer)</p>

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Schedule		Supplier/Topic	Presenter
09:00 – 11:30	09:00 – 10:00 Lecture 10:00 – 10:30 Q&A	<p><b>INFINEON</b></p> <p><b>Fast switching SMPS Gate Drivers</b></p> <p>Power is nothing without control - “Every switch needs a driver”. High efficiency, high power density and the aim for cost efficient design are today's application requirements. These are in turn requiring fast switching, short dead times and low losses while keeping normative like safe isolation and interference immunity.</p> <p>Infineon helps you selecting the relevant features in a gate drivers datasheet, which aspects to cover in your design and layout and how to address EMI topics</p>	<p><b>Ralph Langenberg</b> (Field Application Engineer)</p>
	10:30 – 11:15 Lecture 11:15 – 11:30 Q&A	<p><b>RECOM</b></p> <p><b>DC/DCs for isolated gate drivers for e-mobility applications</b></p> <p>The e-mobility branch is booming. EV chargers and on-board converters are turning towards the latest SiC and GaN technology for the PFC and power stages. The gate drivers need to drive harder and faster to get the maximum power and efficiency out of these next-generation devices. What does this mean for the humble DC/DC converter providing the isolated supply for the gate drivers?</p>	<p><b>Steve Roberts</b> (Innovation Manager)</p>

## Contact

eventadmin@rutronik.com

**Rutronik Elektronische Bauelemente GmbH**  
Industriestraße 2 | 75228 Ispringen | Deutschland  
Tel: +49(0) 7231 801-0 | Fax: +49(0) 7231 82282  
Email: rutronik@rutronik.com | www.rutronik.com

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Online Registration\*

[https://www.rutronik.com/TechTalk\\_GateDriver](https://www.rutronik.com/TechTalk_GateDriver)

\* This invitation is subject to the approval of your superior