



# SEMINAR INVITATION

on 21<sup>st</sup> November 2023  
in Freiam

Partner:

**onsemi**<sup>TM</sup>

# **INVITATION TO THE FREE SEMINAR** **ON NOVEMBER 21 IN FREIHAM**

Würth Elektronik eiSos GmbH & Co. KG and onsemi cordially invite you to the free seminar on 21<sup>st</sup> November 2023 in Freiam.

Motor control will be part of a rising power-market as well as the high degree of automation in almost every industry sector. This session will provide a brief introduction to the most common BLDC commutation techniques and will introduce the new ecoSpin device, the first of a family of intelligent motor control solutions dedicated for low, medium, and high voltage industrial applications. In addition, it will be described how to optimize the EMC motor control application by highlighting the most commonly used filtering topologies and demonstrating how to achieve a good design with low EMI characteristics.

## **Seminar location:**

21<sup>st</sup> November 2023, from 9 a.m. - 1 p.m

Würth Elektronik eiSos GmbH & Co. KG  
Clarita-Bernhard-Straße 9  
81249 München-Freiam

Please register by 7<sup>th</sup> November 2023 as the number of participants is limited. You can find the registration here: [www.we-online.com/seminar-registration](http://www.we-online.com/seminar-registration)

We would be pleased to welcome you to our seminar.

With kind regards

**Würth Elektronik eiSos GmbH & Co. KG & onsemi**

# **AGENDA FOR THE FREE SEMINAR ON** **NOVEMBER 21 IN FREIHAM**

- |          |  |
|----------|--|
| 9:00 am  | BLDC motor overview  |
| 9:20 am  | BLDC Commutation introduction <ul style="list-style-type: none"><li>▪ 6-step trapezoidal (Trap)</li><li>▪ Sinusoidal (Sine)</li><li>▪ Field-oriented control (FOC)</li><li>▪ Direct torque flux control (DTFC)</li></ul>             |
| 10:00 am | New product introductions <ul style="list-style-type: none"><li>▪ ecoSpin ECS640A 600V BLDC motor controller w/ integrated ARM Cortex M0+ gate drive, I-sense &amp; protection.</li><li>▪ NCD83591 60V 3-phase gate driver</li></ul> |
| 10:30 am | Break  |
| 11:00 am | Industrial drive : EMC analysis <ul style="list-style-type: none"><li>▪ Sources of interference</li><li>▪ Filtering components</li><li>▪ More than filtering</li><li>▪ LT Spice simulations of the EMI</li></ul>                     |
| 12:20 am | Q&A session  |